

City of Brentwood
Community Development Department



Hanson Lane Project
Initial Study/Mitigated Negative Declaration

April 2023

Prepared by



1501 Sports Drive, Suite A, Sacramento, CA 95834

TABLE OF CONTENTS

A. PROJECT SUMMARY1

B. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED.....2

C. SOURCES3

D. DETERMINATION.....5

E. BACKGROUND AND INTRODUCTION6

F. PROJECT DESCRIPTION6

G. ENVIRONMENTAL CHECKLIST15

 I. AESTHETICS..... 17

 II. AGRICULTURE AND FOREST RESOURCES..... 20

 III. AIR QUALITY..... 21

 IV. BIOLOGICAL RESOURCES..... 36

 V. CULTURAL RESOURCES..... 50

 VI. ENERGY..... 53

 VII. GEOLOGY AND SOILS..... 57

 VIII. GREENHOUSE GAS EMISSIONS..... 63

 IX. HAZARDS AND HAZARDOUS MATERIALS..... 66

 X. HYDROLOGY AND WATER QUALITY..... 70

 XI. LAND USE AND PLANNING..... 77

 XII. MINERAL RESOURCES..... 78

 XIII. NOISE..... 79

 XIV. POPULATION AND HOUSING..... 88

 XV. PUBLIC SERVICES..... 90

 XVI. RECREATION..... 93

 XVII. TRANSPORTATION..... 94

 XVIII. TRIBAL CULTURAL RESOURCES..... 99

 XIX. UTILITIES AND SERVICE SYSTEMS..... 101

 XX. WILDFIRE..... 105

 XXI. MANDATORY FINDINGS OF SIGNIFICANCE..... 106

APPENDICES:

- Appendix A: Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report
- Appendix B: Planning Survey Report
- Appendix C: Geotechnical Exploration Report
- Appendix D: Phase I Environmental Site Assessment
- Appendix E: Noise Impact Analysis Report
- Appendix F: Traffic Impact Analysis Report

INITIAL STUDY

April 2023

A. PROJECT SUMMARY

1. Project Title: Hanson Lane Project
2. Lead Agency Name and Address: City of Brentwood
Community Development Department
150 City Park Way
Brentwood, CA 94513
3. Contact Person and Phone Number: Jennifer Hagen
Senior Planner
(925) 516-5135
4. Project Location: 251 Hanson Lane
Brentwood, CA
APN 018-230-034
5. Project Sponsor's Name and Address: Paul Manyisha
MLC Holdings, Inc.
2603 Camino Ramon, Suite 140
San Ramon, CA 94583
6. Existing General Plan Designation: Residential-Low Density (R-LD)
7. Existing Zoning Designation: Planned Development (PD-71)
8. Required Approvals from Other Public Agencies: CDFW Section 1602 Permit
9. Surrounding Land Uses and Setting:

The 19.8-acre project site is located at 251 Hanson Lane in the city of Brentwood, and is identified by Accessor's Parcel Number (APN) 018-230-034. The project site has been disturbed by previous agricultural operations and is currently undeveloped, consisting of ruderal vegetation. The southwest and northeast corners of the site contain existing trees, the majority of which are ornamental species. Surrounding land uses include rural residences to the north across Lone Tree Way, Marsh Creek and Marsh Creek Regional Trail to the east with City of Brentwood Solid Waste Operations and Wastewater Operations facilities further east, light industrial uses to the south-east, City water well facility to the south and Single Family Residential to the south and west. The City of Brentwood designates the site as Residential-Low Density (R-LD). The site is zoned Planned Development (PD-71).

10. Project Description Summary:

The Hanson Lane Project (proposed project) includes the subdivision of the site to develop 89 single-family residences, as well as three estate residential lots, a 0.71-acre park site, an 11,707-square-foot (sf) open space area, a 64,757 sf bioretention area located along the eastern boundary of the site, and a 5,471-sf emergency vehicle access (EVA) parcel located along the western boundary of the site. The proposed estate residential lots would range from 21,101 sf to 21,200 sf, while the 89 residential lots would range in size from 4,005 sf to 8,242 sf and would include residences ranging from 1,628 sf to 2,771 sf. Conceptually, the park site would include a play structure, picnic tables, basketball court, and park benches and the open space area would include picnic tables, benches, and barbecues. Access to the project site would be provided by connections to Hanson Lane and Lone Tree Way. All existing on-site trees would be removed as part of the proposed project. The project would require approval of a Vesting Tentative Subdivision Map, as well as approval of Design Review for the proposed residential structures.

11. Status of Native American Consultation Pursuant to Public Resources Code Section 21080.3.1:

In compliance with Assembly Bill (AB) 52 (Public Resources Code [PRC] Section 21080.3.1), on October 19, 2022 the City provided formal notification letters to the Amah Mutsun Tribal Band of Mission San Juan Bautista, Chicken Ranch Rancheria of Me-Wuk Indians, Guidiville Indian Rancheria, Indian Canyon Mutsun Band of Costanoan, Muwekma Ohlone Indian Tribe of the SF Bay Area, Nashville Enterprise Miwok-Maidu-Nishinam Tribe, North Valley Yokuts Tribe, Ohlone Indian Tribe, Tule River Indian Tribe, Wilton Rancheria, Wuksache Indian Tribe/Eshom Valley Band and Confederated Villages of Lisjan. On October 31, 2022, a representative from the Wilton Rancheria requested further information about the proposed project. After receiving additional information, no further consultation was requested. Other requests to consult were not received during the required consultation period.

B. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is “Less-than-significant with Mitigation” as indicated by the checklist on the following pages.

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture and Forest Resources | <input checked="" type="checkbox"/> Air Quality |
| <input checked="" type="checkbox"/> Biological Resources | <input checked="" type="checkbox"/> Cultural Resources | <input type="checkbox"/> Energy |
| <input checked="" type="checkbox"/> Geology and Soils | <input checked="" type="checkbox"/> Greenhouse Gas Emissions | <input checked="" type="checkbox"/> Hazards and Hazardous Materials |
| <input checked="" type="checkbox"/> Hydrology and Water Quality | <input type="checkbox"/> Land Use and Planning | <input type="checkbox"/> Mineral Resources |
| <input checked="" type="checkbox"/> Noise | <input type="checkbox"/> Population and Housing | <input checked="" type="checkbox"/> Public Services |
| <input checked="" type="checkbox"/> Recreation | <input type="checkbox"/> Transportation | <input checked="" type="checkbox"/> Tribal Cultural Resources |
| <input type="checkbox"/> Utilities and Service Systems | <input type="checkbox"/> Wildfire | <input type="checkbox"/> Mandatory Findings of Significance |

C. SOURCES

The following documents are referenced information sources used for the purposes of this Initial Study:

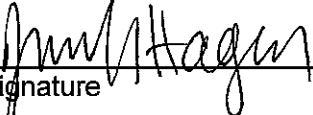
1. Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines*. May 2017.
2. Bay Area Air Quality Management District. *CEQA Thresholds and Guidelines Update*. Available at: <https://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/updated-ceqa-guidelines>. Accessed June 2022.
3. Bay Area Air Quality Management District. *CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans*. April 2022.
4. Brentwood Police Department. *2021 PD Performance Report*. Available at: <https://www.brentwoodca.gov/home/showpublisheddocument/4840/637835438572570000>. Accessed October 2022.
5. California Air Resources Board. *The 2017 Climate Change Scoping Plan Update*. November 2017.
6. California Department of Conservation. *California Important Farmland Finder*. Available at: <https://maps.conservation.ca.gov/dlrp/ciff/>. Accessed September 2022.
7. California Department of Forestry and Fire Protection. *FHSZ Viewer*. Available at: <https://egis.fire.ca.gov/FHSZ/>. Accessed September 2022.
8. California Department of Resources Recycling and Recovery (CalRecycle). *Facility/Site Summary Details: Keller Canyon Landfill (07-AA-0032)*. Available at: <https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/4407?siteID=228>. Accessed October 2022..
9. California Department of Transportation. *California Scenic Highway System Map*. Available at: <https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aaca>. Accessed September 2022.
10. California Energy Commission. *Title 24 2019 Building Energy Efficiency Standards FAQ*. November 2018.
11. California Geologic Survey. *Seismic Hazard Zone Report for the Brentwood 7.5-Minute Quadrangle, Contra Costa County, California*. 2018.
12. City of Brentwood. *2014 Brentwood General Plan Draft Environmental Impact Report*. April 2014.
13. City of Brentwood. *City of Brentwood General Plan*. Adopted July 2014.
14. City of Brentwood. *2020 Urban Water Management Plan*. June 2021, revised December 2021.
15. Contra Costa County Clean Water Program. *Stormwater C.3 Guidebook*. May 17, 2017.
16. Contra Costa County Fire Protection District. *Station Address*. Available at: <https://cccfpd.org/station-address/>. Accessed October 2022.
17. Contra Costa County Flood Control District. *Contra Costa County Formed Drainage Areas*. February 7, 2008.
18. Contra Costa County. *Emergency Operations Plan*. June 16, 2015.
19. Department of Toxic Substances Control. *Hazardous Waste and Substances Site List (Cortese)*. Available at: <https://www.envirostor.dtsc.ca.gov/public/>. Accessed September 2022.
20. East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan*. October 2006.
21. ENGEO Incorporated. *Geotechnical Exploration Hanson Ranch*. December 29, 2014.

22. ENGEO Incorporated. *Hanson Lane, Brentwood, California, Phase I Environmental Site Assessment*. October 27, 2020.
23. Federal Emergency Management Agency. *Flood Insurance Rate Map 06013C0354G*. Effective March 21, 2017.
24. FirstCarbon Solutions. *Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report*. March 15, 2022.
25. FirstCarbon Solutions. *Noise Impact Analysis Report Hanson Lane Residential Project*. March 1, 2022.
26. H.T. Harvey & Associates. *East Contra Costa County Habitat Conservation Plan – Assessment of Plan Effects on CEQA Species*. February 17, 2015.
27. Moore Biological Consultants. *Application Form and Planning Survey Report*. March 1, 2022.
28. Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments*. February 2015.
29. Solano Archaeological Services, LLC. *Cultural Resources Study – Hanson Lane Development Project, City of Brentwood, Contra Costa County, California*. December 2021.
30. TJKM. *Hanson Lane Residential Project Draft Traffic Impact Analysis Report*. February 4, 2022.

D. DETERMINATION

On the basis of this initial study:

- I find that the Proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the Proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the applicant. 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" on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.



Signature

Jennifer Hagen, Senior Planner

Printed Name

4/18/23

Date

City of Brentwood

For

E. BACKGROUND AND INTRODUCTION

This Initial Study/Mitigated Negative Declaration (IS/MND) identifies and analyzes the potential environmental impacts of the proposed project. The information and analysis presented in this document is organized in accordance with the order of the California Environmental Quality Act (CEQA) checklist in Appendix G of the CEQA Guidelines. Where the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures are prescribed.

The mitigation measures prescribed for environmental effects described in this IS/MND would be implemented in conjunction with the project, as required by CEQA. The mitigation measures would be incorporated into the project through project conditions of approval. The City would adopt findings and a Mitigation Monitoring/Reporting Program for the project in conjunction with approval of the project.

On July 22, 2014, the City of Brentwood City Council adopted a comprehensive update to the City's General Plan and certified an associated Environmental Impact Report (EIR).¹ The General Plan EIR analyzed the potential impacts associated with full buildout of the General Plan Land Use Diagram. Per Section 15152 of the CEQA Guidelines, a project that is consistent with the General Plan and zoning designations of the City may tier from the analysis contained in the General Plan EIR, incorporating by reference the general discussions from the broader EIR. The proposed project would be consistent with the General Plan and zoning designations for the project site; therefore, in accordance with Section 15152 of the CEQA Guidelines, the analysis within this IS/MND will rely on analysis included in the General Plan EIR, as applicable.

In addition, project-specific technical reports have been prepared for the proposed project and form the basis of several technical sections of this IS/MND. All technical reports used in the preparation of this IS/MND are attached as appendices, and/or available upon request at the City of Brentwood Community Development Department.

F. PROJECT DESCRIPTION

The following provides a description of the project site's current location and setting, as well as the proposed project components and the discretionary actions required for the project.

Project Location and Setting

The project site consists of a 19.8-acre parcel identified by APN 018-230-034, located at 251 Hanson Lane in the city of Brentwood (see Figure 1 and Figure 2). The site consists of undeveloped ruderal vegetation with 21 existing trees located at the southwest and northeast corners of the site, the majority of which are ornamental species. Surrounding land uses include rural residences to the north, across Lone Tree Way, Marsh Creek and Marsh Creek Regional Trail to the east with City of Brentwood Solid Waste Wastewater Treatment Plant, and Municipal Service Center facilities further east, and Single Family Residential and sewer pump station to the south and west. The City of Brentwood General Plan designates the site as R-LD. The site is zoned PD-71.

Project Components

The proposed project would include the subdivision of the site to develop 89 single-family residences and three estate residential lots ranging from 21,101 sf to 21,100 sf (see Figure 3).

¹ City of Brentwood. *City of Brentwood General Plan*. Adopted July 2014.
City of Brentwood. *2014 Brentwood General Plan Draft Environmental Impact Report*. April 2014.

Figure 1
Regional Project Location

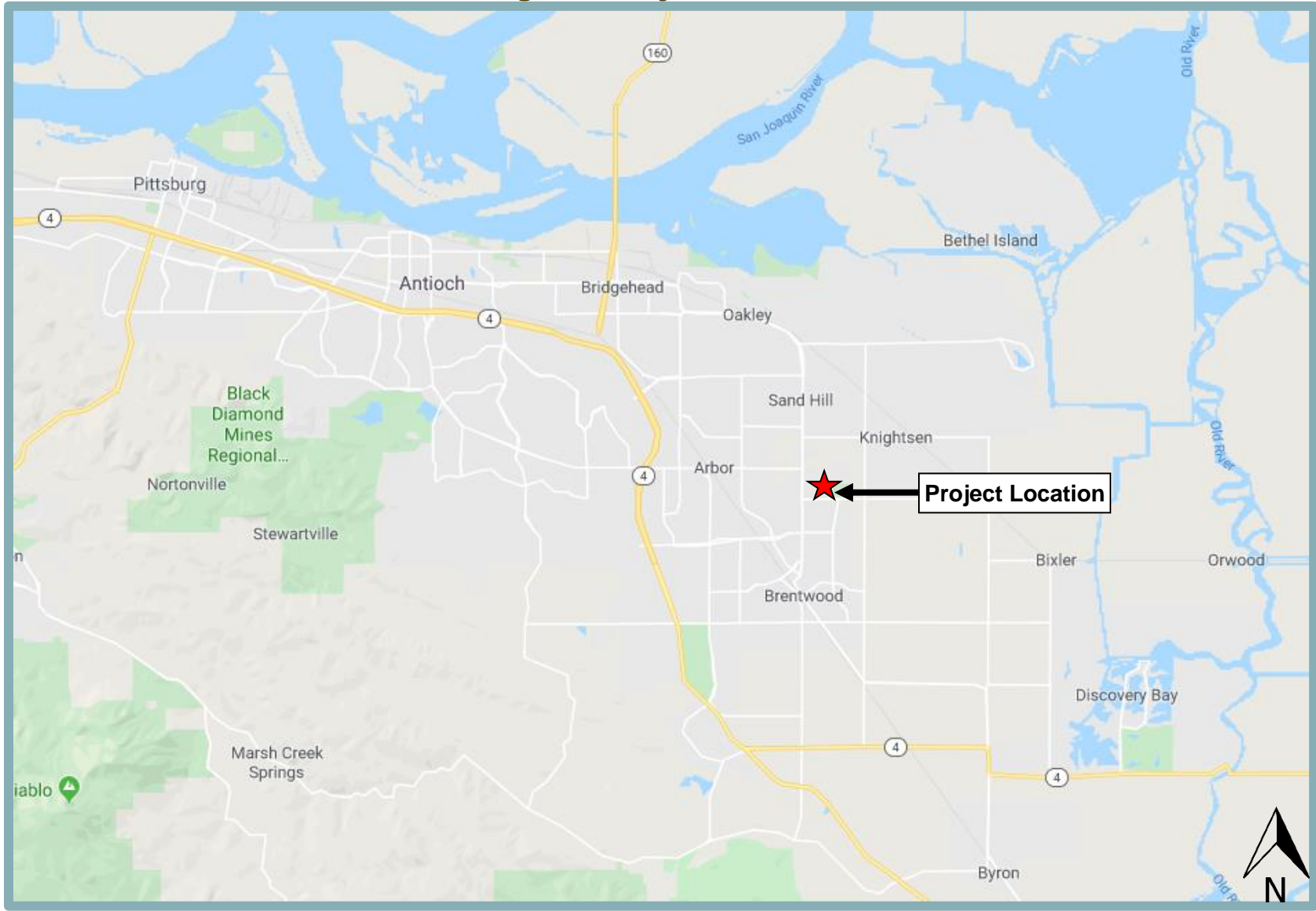
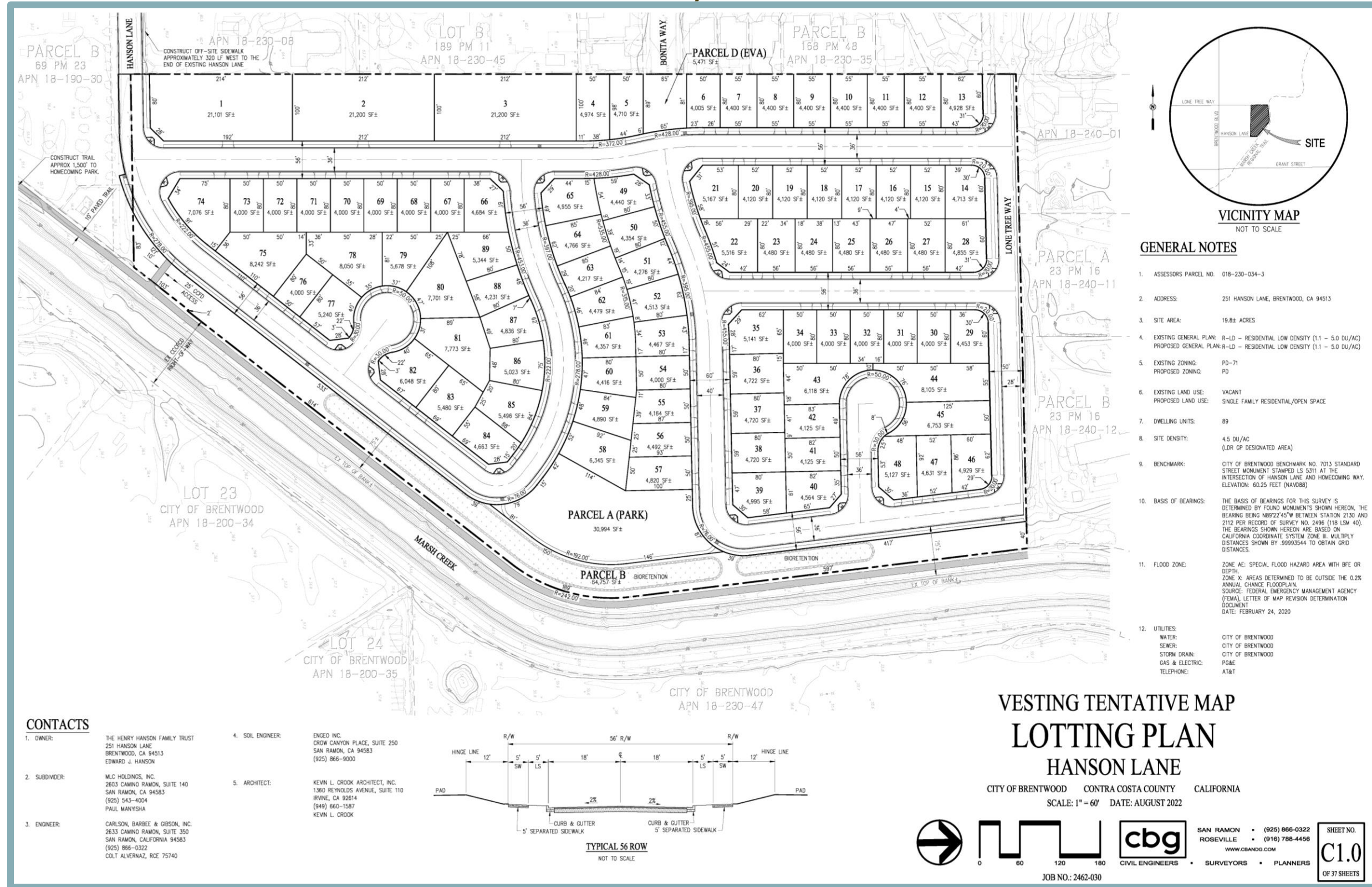


Figure 2
Project Site Boundaries



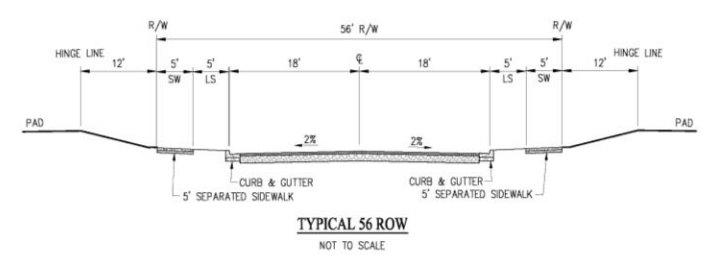
Note: All boundaries are approximate.

Figure 3
Preliminary Site Plan



- GENERAL NOTES**
- ASSESSOR'S PARCEL NO. 018-230-034-3
 - ADDRESS: 251 HANSON LANE, BRENTWOOD, CA 94513
 - SITE AREA: 19.8± ACRES
 - EXISTING GENERAL PLAN: R-LD - RESIDENTIAL LOW DENSITY (1.1 - 5.0 DU/AC)
PROPOSED GENERAL PLAN: R-LD - RESIDENTIAL LOW DENSITY (1.1 - 5.0 DU/AC)
 - EXISTING ZONING: PD-71
PROPOSED ZONING: PD
 - EXISTING LAND USE: VACANT
PROPOSED LAND USE: SINGLE FAMILY RESIDENTIAL/OPEN SPACE
 - DWELLING UNITS: 89
 - SITE DENSITY: 4.5 DU/AC (LDR GP DESIGNATED AREA)
 - BENCHMARK: CITY OF BRENTWOOD BENCHMARK NO. 7013 STANDARD STREET MONUMENT STAMPED LS 5311 AT THE INTERSECTION OF HANSON LANE AND HOMECOMING WAY. ELEVATION: 60.25 FEET (NAVD88)
 - BASIS OF BEARINGS: THE BASIS OF BEARINGS FOR THIS SURVEY IS DETERMINED BY FOUND MONUMENTS SHOWN HEREON, THE BEARING BEING N89°22'45"W BETWEEN STATION 2130 AND 2112 PER RECORD OF SURVEY NO. 2496 (118 LSM 40). THE BEARINGS SHOWN HEREON ARE BASED ON CALIFORNIA COORDINATE SYSTEM ZONE II. MULTIPLY DISTANCES SHOWN BY .99993544 TO OBTAIN GRID DISTANCES.
 - FLOOD ZONE: ZONE AE: SPECIAL FLOOD HAZARD AREA WITH BFE OR DEPTH.
ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), LETTER OF MAP REVISION DETERMINATION DOCUMENT DATE: FEBRUARY 24, 2020
 - UTILITIES:
WATER: CITY OF BRENTWOOD
SEWER: CITY OF BRENTWOOD
STORM DRAIN: CITY OF BRENTWOOD
GAS & ELECTRIC: PG&E
TELEPHONE: AT&T

- CONTACTS**
- | | |
|---|--|
| 1. OWNER: THE HENRY HANSON FAMILY TRUST 251 HANSON LANE BRENTWOOD, CA 94513 EDWARD J. HANSON | 4. SOIL ENGINEER: ENSCO INC. CROW CANYON PLACE, SUITE 250 SAN RAMON, CA 94583 (925) 866-9000 |
| 2. SUBDIVIDER: MLC HOLDINGS, INC. 2603 CAMINO RAMON, SUITE 140 SAN RAMON, CA 94583 (925) 543-4004 PAUL MANYISHA | 5. ARCHITECT: KEVIN L. CROOK ARCHITECT, INC. 1360 REYNOLDS AVENUE, SUITE 110 IRVINE, CA 92614 (949) 860-1587 KEVIN L. CROOK |
| 3. ENGINEER: CARLSON, BARBEE & GIBSON, INC. 2633 CAMINO RAMON, SUITE 350 SAN RAMON, CALIFORNIA 94583 (925) 866-0322 COLT ALVERNAZ, RCE 75740 | |



VESTING TENTATIVE MAP
LOTING PLAN
HANSON LANE
CITY OF BRENTWOOD CONTRA COSTA COUNTY CALIFORNIA
SCALE: 1" = 60' DATE: AUGUST 2022

cbg CIVIL ENGINEERS • SURVEYORS • PLANNERS
SAN RAMON • (925) 866-0322
ROSEVILLE • (916) 788-4456
WWW.CBANDG.COM
SHEET NO. **C1.0**
OF 37 SHEETS
JOB NO.: 2462-030

The 89 single-family residential lots would range in size from 4,005 sf to 8,242 sf, and the single-family residences would be constructed according to the following:

- 28 lots would be developed according to Floor Plan 1 (see Figure 4) and would consist of a 1,628-sf residence with three bedrooms;
- 29 lots would be developed according to Floor Plan 2 (see Figure 5) and would consist of a 2,320-sf residence with four bedrooms and a loft;
- 29 lots would be developed according to Floor Plan 3 (see Figure 6) and would consist of a 2,771-sf residence with four bedrooms, an office, and an optional fifth bedroom;
- 3 large lots along the western boundary of the site to be developed with floor plans 1, 2, or 3.

A total of nine below-market rate units would be provided for very-low, low-, and moderate-income families. Each residence would include a two-car garage and an open space backyard. Additionally, the three larger lots discussed above would provide a transition from the existing Ranchette Estate development adjacent to the southwest portion of the site.

A retaining wall would be constructed along the western boundary of the site due to a steep grade in a few areas near the adjacent existing residential development. The retaining wall would range in height from zero to four feet. A standard six-foot good neighbor backyard fence would be constructed on top the retaining wall. In addition, due to a steep grade between the northern boundary of the project site and the existing road to access the rural residences located to the north of Lone Tree Way, a four-foot retaining wall would be constructed. The retaining wall would separate the private road and Lone Tree Way.

Parks and Landscaping

The proposed project would include a 0.71-acre park site along the eastern boundary of the project site (see Figure 7). The park would conceptually include a play structure and turf area, picnic tables, basketball court, park benches and barbecues. An open space area would be provided along the western side of Marsh Creek. The open space area would include landscaping and sidewalks. All existing on-site trees would be removed as part of the proposed project; however, trees would be planted throughout the park and along the internal roadway network within the project site. In addition, a variety of shrubs, groundcover, and grasses would be planted throughout the project site.

Parking, Access, and Circulation

Site access would be provided by way of Hanson Lane and Lone Tree Way, which (at this location) are minor arterial streets leading to retail and dining. Hanson Lane and Lone Tree Way will be extended by the project, in addition three roadway connections would be constructed along Lone Tree Way, and one connection roadway would be constructed along Hanson Lane, to provide access to the proposed roadway network which would be constructed as part of the project. A 5,471-sf EVA parcel would be located along the western boundary of the site. The EVA would provide access to the site from Bonita Way. Sidewalks would be included on both sides of the streets to allow for pedestrian circulation throughout the project site. A new sidewalk would also be constructed along the southern side of Hanson Lane and extend outside of the project boundary in order to connect to the existing sidewalk.

Figure 4
Proposed Floor Plan 1

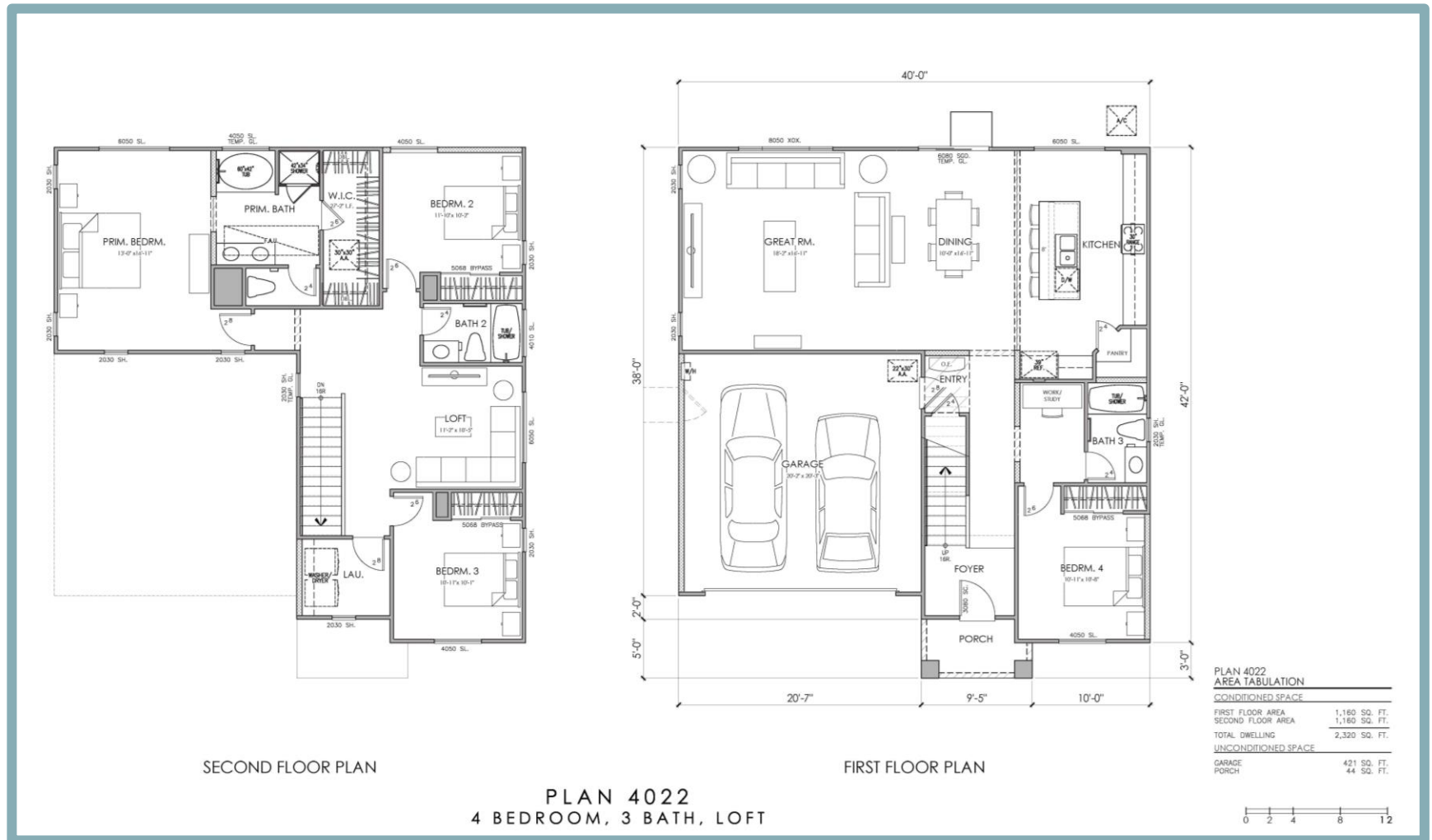


Figure 5
Proposed Floor Plan 2

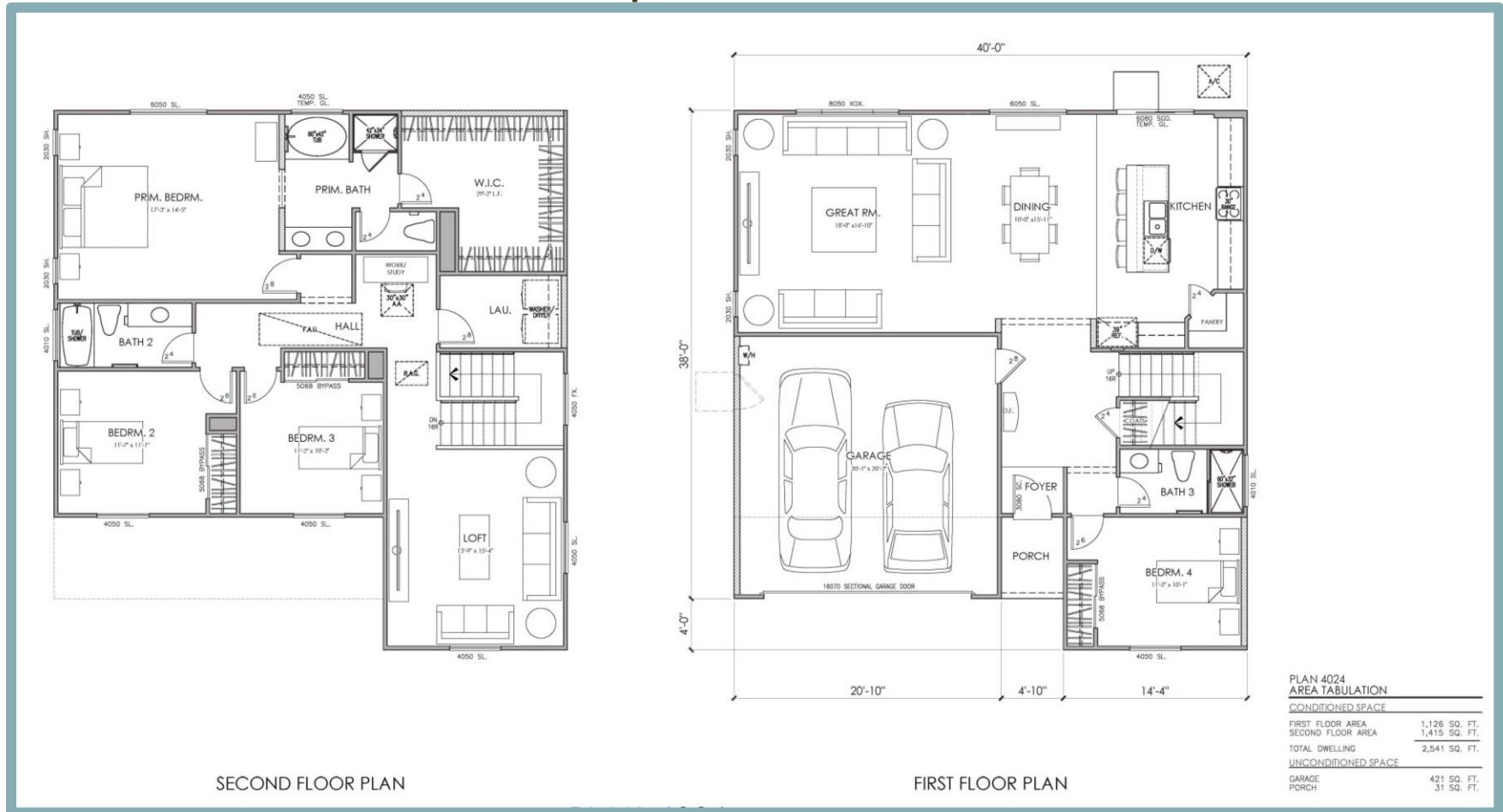
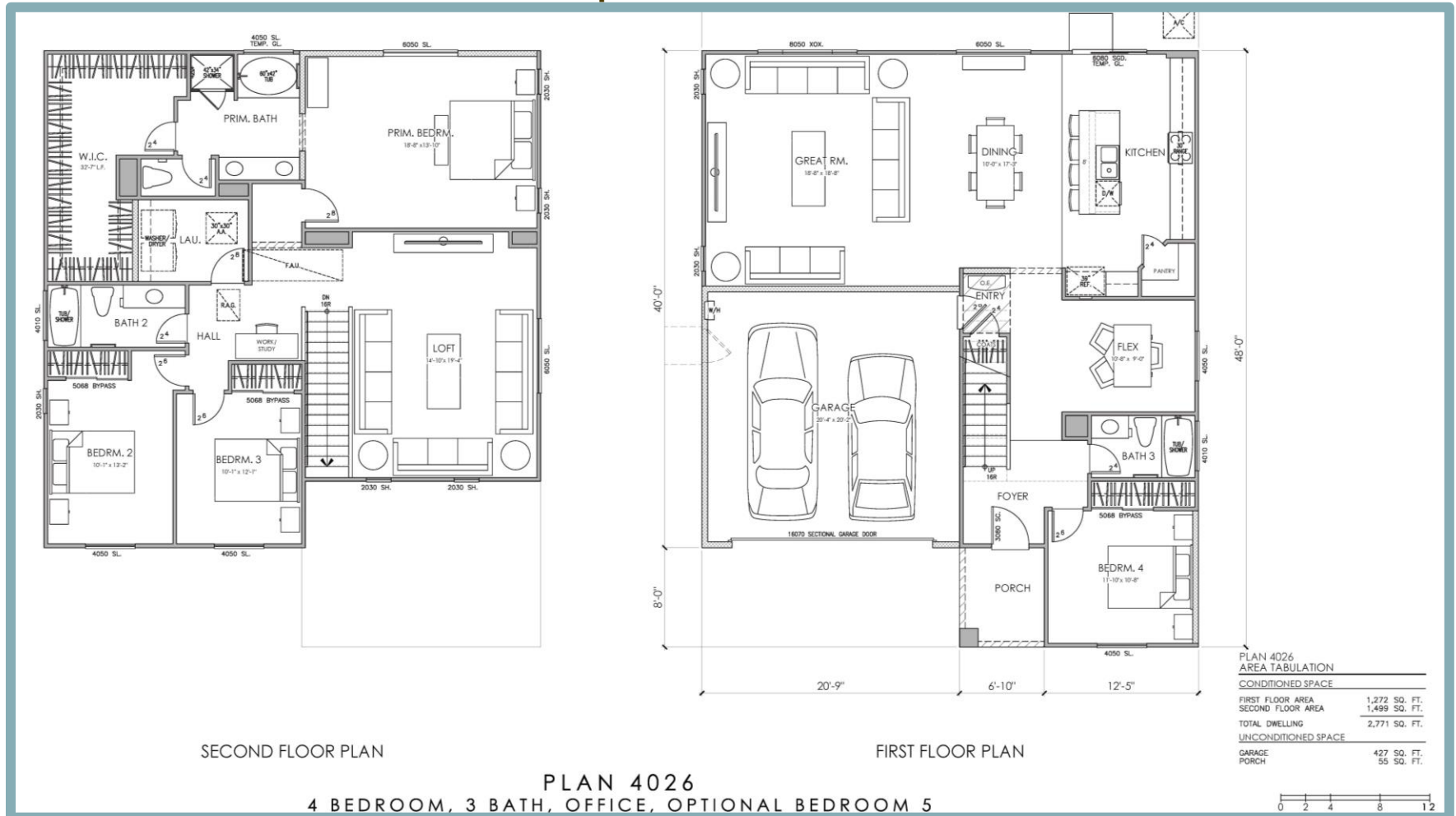


Figure 6
Proposed Floor Plans 3



**Figure 7
Landscaping Plan**



Utilities

Utilities developed as part of the proposed project would include water, sanitary sewer, storm drainage, and electrical (see Figure 8). Eight- and twelve-inch water lines would be installed throughout the project site by way of a connection to the existing 8-inch line in Lone Tree Way, which would be upsized to 12-inches to Arroyo Seco Road, and the existing 8-inch line along Hanson Lane. Sanitary sewer infrastructure would include eight-, 12-, and 15-inch sewer lines throughout the project site and below Marsh Creek.

Wastewater from the project would flow through a new 15-inch line that would be installed under Marsh Creek through bore and jack technology before connecting to an existing manhole at the wastewater treatment plant located east of the site. Stormwater drains would be located throughout the site and connect to an existing stormwater drain at the eastern boundary of the site, near Marsh Creek.

Two bioretention basins would be located along the eastern boundary of the site, which would collect and treat all on-site stormwater runoff. The bioretention basins would connect to an existing on-site storm drain system and discharge into Marsh Creek through an existing outfall. In addition, the proposed project would include rooftop solar panels that would provide electricity for each single-family home.

Discretionary Actions

The proposed project would require the following approvals from the City of Brentwood:

- Adoption of the IS/MND;
- Approval of a Mitigation Monitoring and Reporting Program;
- Approval of a Vesting Tentative Subdivision Map; and
- Approval of Design Review.

G. ENVIRONMENTAL CHECKLIST

The following checklist contains the environmental checklist form presented in Appendix G of the CEQA Guidelines. The checklist form is used to describe the impacts of the proposed project. A discussion follows each environmental issue identified in the checklist. For this checklist, the following designations are used:

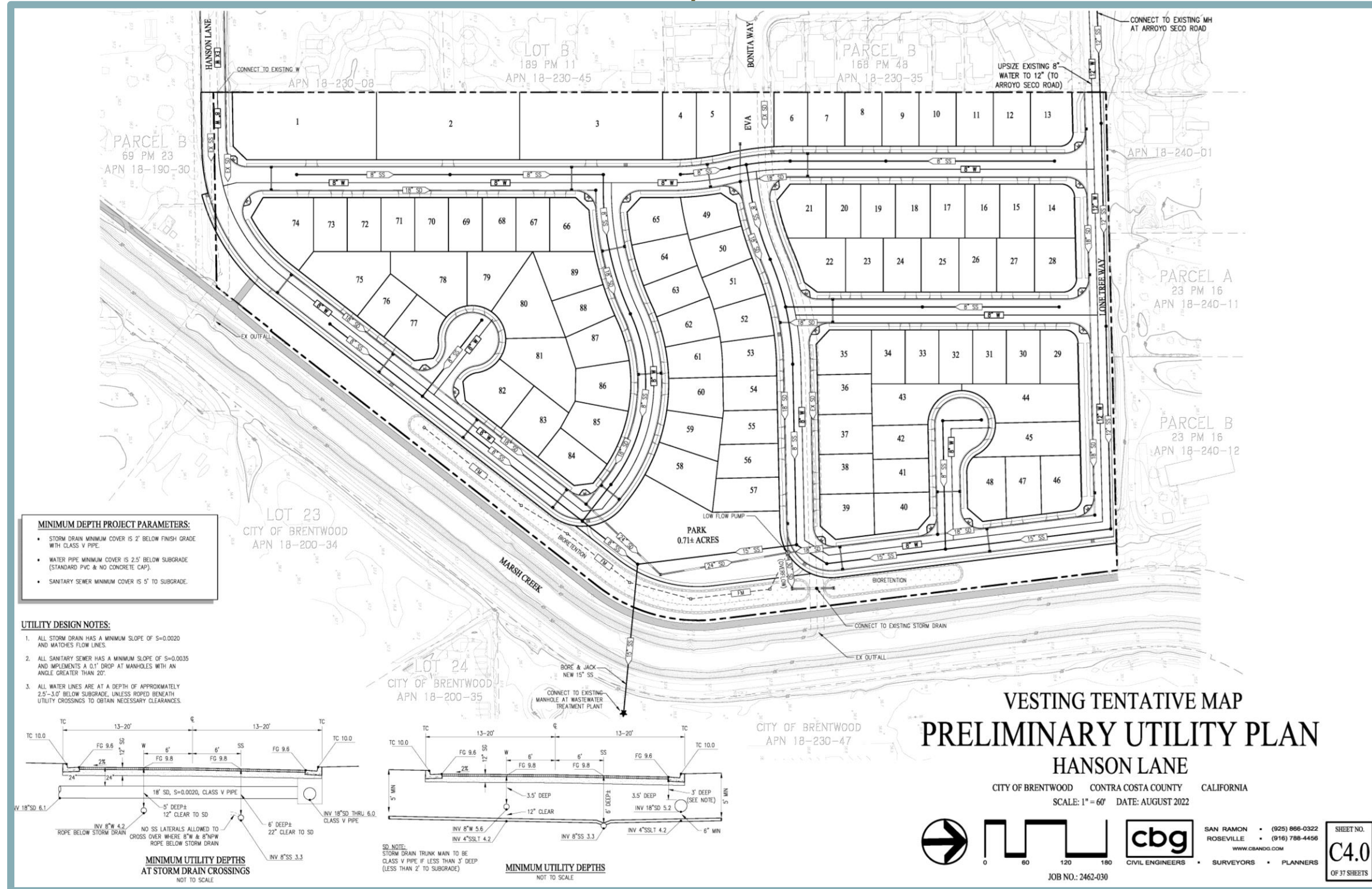
Potentially Significant Impact: An impact that could be significant, and for which no mitigation has been identified. If any potentially significant impacts are identified, an EIR must be prepared.

Less Than Significant with Mitigation Incorporated: An impact that requires mitigation to reduce the impact to a less-than-significant level.

Less-Than-Significant Impact: Any impact that would not be considered significant under CEQA relative to existing standards.

No Impact: The project would not have any impact.

**Figure 8
Utility Plan**



I. AESTHETICS.

Would the project:

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |
| b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |
| d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | <input type="checkbox"/> | ✘ | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion

a,b. Examples of typical scenic vistas include mountain ranges, ridgelines, or bodies of water as viewed from a highway, public space, or other area designated for the express purpose of viewing and sightseeing. The topography of the City’s planning area is characterized by the relatively flat terrain of the Central Valley, with gently sloping hills in the western and southwestern portion of the area approaching the foothills of the Diablo Range.

The General Plan does not specifically identify any scenic vistas within the City. In addition, according to the California Scenic Highway Mapping System, the project site is not located within the vicinity of an officially designated State Scenic Highway.² The project site is located approximately three miles east of State Route (SR) 4, which is listed as an eligible State Scenic Highway; however, SR 4 is not officially designated. In addition, given the site’s distance from SR 4, the site cannot be seen from the SR 4 viewshed. Furthermore, the proposed project is consistent with the site’s current land use and zoning designations. Therefore, buildout of the site has been previously considered by the City, and the proposed project would be consistent with the surrounding existing uses.

Based on the above, development of the proposed project would not have a substantial adverse effect on a scenic vista and would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway. Thus, a **less-than-significant** impact would occur.

c. The implementation of the proposed project would result in the development of 89 single-family residential lots, as well as a park site, a lot for EVA, and bioretention area on a parcel that is currently vacant and undeveloped. As such, the following discussion provides an analysis of the changes in visual character and quality, as viewed from public areas in the project vicinity, that would be expected to occur as a result of the proposed project.

Distinguishing between public and private views is important, because private views are views seen from privately-owned land and are typically associated with individual viewers,

² California Department of Transportation. California Scenic Highway System Map. Available at: <https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aaca>. Accessed September 2022.

including views from private residences. Public views are experienced by the collective public, and include views of significant landscape features and along scenic roads. According to CEQA (PRC, Section 21000 et seq.) case law, only public views, not private views, are protected under CEQA. For example, in *Association for Protection of Environmental Values in Ukiah v. City of Ukiah* (1991) 2 Cal.App.4th 720, the court determined that “we must differentiate between adverse impacts upon particular persons and adverse impacts upon the environment of persons in general.” As recognized by the court in *Topanga Beach Renters Assn. v. Department of General Services* (1976) 58 Cal.App.3d 188, “[A]ll government activity has some direct or indirect adverse effect on some persons. The issue is not whether [the project] will adversely affect particular persons but whether [the project] will adversely affect the environment of persons in general.” Therefore, the focus in this section is on potential impacts to public views.

Public views in the project vicinity are limited due to the project site being located at the terminus of both Hanson Lane and Lone Tree Way. Nonetheless, views of Marsh Creek may be viewed by motorists and pedestrians traveling along Hanson Lane and Lone Tree Way.

As discussed above, the proposed project would be consistent with the site’s land use and zoning designations, and would be similar to the surrounding uses. As such, the visual character of the area surrounding the project site as seen from Lone Tree Way and Hanson Lane would be consistent with the existing character of the area.

Based on the above, the proposed project would not substantially degrade the existing visual character or quality of public views of the site and its surroundings, and the impact would be considered **less than significant**.

- d. As noted previously, the project site is mostly surrounded by existing residential developments, and the Brentwood Solid Waste Operations facility to the east. As such, sources of light and glare are already present within the project vicinity. Nonetheless, the project site is currently vacant and undeveloped. As such, development of the proposed project would increase the amount of light within the project site from sources including, but not limited to, headlights on cars using the on-site street system, exterior light fixtures, and interior light spilling through windows.

However, all street lighting would be required to comply with the standards set forth in Section 17.521.005 (Other Regulations) of the Brentwood Municipal Code, which includes such requirements as cut-off lenses to direct light downward. The proposed project would also be subject to design and site plan development review process, as established in Section 17.451.007 for the Brentwood Municipal Code. Compliance with such would help to ensure that the light and glare created by the proposed project would be consistent with the levels of light and glare currently emitted in the surrounding developed environment. However, because the proposed project would introduce new sources of light or glare to the site which could adversely affect day or nighttime views in the area, a **potentially significant** impact may occur.

Mitigation Measure(s)

The following mitigation measures would reduce the above-stated impacts to a *less-than-significant* level.

- I-1 *In conjunction with development of the proposed project, the developer shall shield all on-site lighting so that nighttime lighting is directed within the project site and does not illuminate adjacent properties. A detailed lighting plan shall be submitted for the review and approval by the Community Development Department and the Public Works Department in conjunction with the project improvement plans. The lighting plan shall indicate the locations and design of the shielded light fixtures.*

II. AGRICULTURE AND FOREST RESOURCES.

Would the project:

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Conflict with existing zoning for agricultural use, or a Williamson Act contract? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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))? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d. Result in the loss of forest land or conversion of forest land to non-forest use? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion

- a,e. Currently, the project site is vacant and undeveloped with ruderal vegetation and trees. According to the California Department of Conservation Important Farmland Finder, the project site is identified as Urban and Built-Up Land.³ The project site does not contain, and is not located adjacent to, Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. In addition, the City’s General Plan designates the project site for residential development. Therefore, the proposed project’s impacts would be **less-than-significant**.
- b. The project site is currently zoned PD-71 and has been anticipated for development with residential uses by the City. In addition, the project site is not under a Williamson Act contract. Therefore, the proposed project would not conflict with existing zoning for agricultural use, or a Williamson Act contract, and **no impact** would occur.
- c,d. The project site is not considered forest land (as defined in PRC Section 12220[g]), timberland (as defined by PRC Section 4526), and is not zoned Timberland Production (as defined by Government Code Section 51104[g]). As noted above, the project site is currently zoned PD-71. Therefore, the proposed project would not conflict with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production, and the project would not otherwise result in the loss of forest land or conversion of forest land to non-forest use. Thus, **no impact** would occur.

³ California Department of Conservation. *California Important Farmland Finder*. Available at: <https://maps.conservation.ca.gov/dlrp/ciff/>. Accessed September 2022.

III. AIR QUALITY.

Would the project:

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Expose sensitive receptors to substantial pollutant concentrations? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion

a,b. The City of Brentwood is located in the San Francisco Bay Area Air Basin (SFBAAB), which is under the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). The SFBAAB area is currently designated as a nonattainment area for State and federal ozone, State and federal fine particulate matter 2.5 microns in diameter (PM_{2.5}), and State respirable particulate matter 10 microns in diameter (PM₁₀) ambient air quality standards (AAQS). The SFBAAB is designated attainment or unclassified for all other AAQS. It should be noted that on January 9, 2013, the U.S. Environmental Protection Agency (USEPA) issued a final rule to determine that the Bay Area has attained the 24-hour PM_{2.5} federal AAQS. Nonetheless, the Bay Area must continue to be designated as nonattainment for the federal PM_{2.5} AAQS until such time as the BAAQMD submits a redesignation request and a maintenance plan to the USEPA, and the USEPA approves the proposed redesignation. The USEPA has not yet approved a request for redesignation of the SFBAAB; therefore, the SFBAAB remains in nonattainment for 24-hour PM_{2.5}.

In compliance with regulations, due to the nonattainment designations of the area, the BAAQMD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the AAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies. The current air quality plans are prepared in cooperation with the Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG).

The most recent federal ozone plan is the 2001 Ozone Attainment Plan, which was adopted on October 24, 2001 and approved by the California Air Resources Board (CARB) on November 1, 2001. The plan was submitted to the USEPA on November 30, 2001 for review and approval. The most recent State ozone plan is the 2017 Clean Air Plan, adopted on April 19, 2017. The 2017 Clean Air Plan was developed as a multi-pollutant plan that provides an integrated control strategy to reduce ozone, PM, toxic air contaminants (TACs), and greenhouse gases (GHGs). Although a plan for achieving the State PM₁₀ standard is not required, the BAAQMD has prioritized measures to reduce PM in developing the control strategy for the 2017 Clean Air Plan. The control strategy serves as the backbone of the BAAQMD’s current PM control program.

The aforementioned air quality plans contain mobile source controls, stationary source controls, and transportation control measures to be implemented in the region to attain the State and federal AAQS within the SFBAAB. Adopted BAAQMD rules and regulations, as well as the thresholds of significance, have been developed with the intent to ensure

continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated nonattainment, consistent with applicable air quality plans. For development projects, BAAQMD establishes significance thresholds for emissions of the ozone precursors reactive organic gases (ROG) and oxides of nitrogen (NO_x), as well as for PM₁₀, and PM_{2.5}, expressed in pounds per day (lbs/day) and tons per year (tons/yr). The thresholds are listed in Table 1. Thus, by exceeding the BAAQMD’s mass emission thresholds for construction and operational emissions of ROG, NO_x, or PM₁₀, a project would be considered to conflict with or obstruct implementation of the BAAQMD’s air quality planning efforts.

| Pollutant | Construction | Operational | |
|-----------------------------|--|--|---|
| | Average Daily Emissions (lbs/day) | Average Daily Emissions (lbs/day) | Maximum Annual Emissions (tons/year) |
| ROG | 54 | 54 | 10 |
| NO _x | 54 | 54 | 10 |
| PM ₁₀ (exhaust) | 82 | 82 | 15 |
| PM _{2.5} (exhaust) | 54 | 54 | 10 |

Source: BAAQMD, CEQA Guidelines, May 2017.

Particulate matter can be split into two categories: fugitive and exhaust. The BAAQMD thresholds of significance for exhaust are presented in Table 1. It should be noted that BAAQMD does not maintain quantitative thresholds for fugitive emissions of PM₁₀ or PM_{2.5}, rather, BAAQMD requires all projects within the district’s jurisdiction to implement Basic Construction Mitigation Measures (BCMMS) related to dust suppression.

An Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report was prepared for the proposed project by FirstCarbon Solutions (see Appendix A).⁴ The proposed project’s and off-site improvement’s construction and operational emissions were quantified by FirstCarbon Solutions using the California Emissions Estimator Model (CalEEMod), Version 2020.4.0 – a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including construction data, trip generation rates, vehicle mix, trip length, average speed, compliance with the California Building Standards Commission (CBSC), etc. Where project-specific information is available, such information should be applied in the model. For details regarding the assumptions used by FirstCarbon Solutions, see Appendix A to this IS/MND. The proposed project’s estimated emissions associated with construction and operations and the project’s contribution to cumulative air quality conditions are provided below.

Construction Emissions

According to the Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report, the proposed project would result in maximum unmitigated construction criteria air pollutant emissions as shown in Table 2. As shown in the table, the proposed project’s maximum unmitigated construction emissions would be below the applicable thresholds of significance.

⁴ FirstCarbon Solutions. *Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report*. March 15, 2022.

| Pollutant | Proposed Project Emissions | Threshold of Significance | Exceeds Threshold? |
|--|-----------------------------------|----------------------------------|---------------------------|
| ROG | 10.55 | 54 | NO |
| NO _x | 23.37 | 54 | NO |
| PM ₁₀ (exhaust) | 1.03 | 82 | NO |
| PM _{2.5} (exhaust) | 0.96 | 54 | NO |
| Source: FirstCarbon Solutions, March 2022 (see Appendix A). | | | |

All projects within the jurisdiction of the BAAQMD are required to implement all of the BAAQMD's BCMs, which would be required by the City as conditions of approval:

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

The proposed project's required implementation of the BAAQMD's BCMs listed above for the project's construction activities would help to minimize construction-related emissions. Because the proposed project would be below the applicable thresholds of significance for construction emissions, project and off-site improvement construction would not result in a significant air quality impact.

Operational Emissions

According to the Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report, the proposed project would result in maximum unmitigated operational criteria air pollutant emissions as shown in Table 3. As shown in the table, the proposed project's operational emissions would be below the applicable thresholds of significance. As such, the proposed project and off-site improvements would not result in a significant air quality impact during operations.

| Pollutant | Proposed Project Emissions | | Threshold of Significance | | Exceeds Threshold? |
|-----------------------------|----------------------------|---------|---------------------------|---------|--------------------|
| | lbs/day | tons/yr | lbs/day | tons/yr | |
| ROG | 8.81 | 1.61 | 54 | 10 | NO |
| NO _x | 3.07 | 0.56 | 54 | 10 | NO |
| PM ₁₀ (exhaust) | 4.05 | 0.74 | 82 | 15 | NO |
| PM _{2.5} (exhaust) | 1.19 | 0.22 | 54 | 10 | NO |

Source: FirstCarbon Solutions, March 2022 (see Appendix A).

Cumulative Emissions

Past, present and future development projects contribute to the region’s adverse air quality impacts on a cumulative basis. By nature, air pollution is largely a cumulative impact. A single project is not sufficient in size to, by itself, result in nonattainment of AAQS. Instead, a project’s individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project’s contribution to the cumulative impact is considerable, then the project’s impact on air quality would be considered significant. In developing thresholds of significance for air pollutants, BAAQMD considered the emission levels for which a project’s individual emissions would be cumulatively considerable. The thresholds of significance presented in Table 1 represent the levels at which a project’s individual emissions of criteria air pollutants or precursors would result in a cumulatively considerable contribution to the SFBAAB’s existing air quality conditions. If a project exceeds the significance thresholds presented in Table 1, the proposed project’s emissions would be cumulatively considerable, resulting in significant adverse cumulative air quality impacts to the region’s existing air quality conditions. Because the proposed project would result in emissions below the applicable thresholds of significance, the project would not be expected to result in a cumulatively considerable contribution to the region’s existing air quality conditions.

Consistency with the 2017 Clean Air Plan

An additional measure for determining whether a project is consistent with an air quality plan is to determine whether the proposed project is consistent with the growth assumptions incorporated into the air quality plan and, thus, whether the project could interfere with the region’s ability to comply with federal and State AAQS. The development of the 2017 Clean Air Plan is based, in part, on the General Plan land use designations of the various cities and counties that constitute the SFBAAB. The City of Brentwood General Plan was adopted in 2014, prior to adoption of the 2017 Clean Air Plan, and, thus, the buildout of the City of Brentwood according to the General Plan land use designations was generally anticipated within the 2017 Clean Air Plan. The General Plan designates the project site as R-LD and the site is zoned as PD-71.

The R-LD land use designation is designed for single-family detached houses with a permitted density range of 1.1 to 5.0 dwelling units per gross acre (du/ac). The Zoning Ordinance describes the intention of the PD-71 zoning designation as development of detached single-family residential, duets, park, and open space uses. The proposed project would develop 89 single-family homes on a 19.8-acre project site, which would result in 4.5 du/ac. As such, the proposed project would be consistent with the land use and density that was contemplated in the General Plan for the site. Further, the proposed

project would conform to the minimum setbacks, height limits, and floor area ratio (FAR) requirements for the R-LD designation and PD-71 zone. Therefore, the proposed project would be consistent with the General Plan and, thus, consistent with the growth assumptions of the 2017 Clean Air Plan.

The Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report lists the 2017 Clean Air Plan policies relevant to the proposed project and evaluates the proposed project's consistency with the policies. As demonstrated therein, the proposed project would be consistent with all applicable measures. In addition, as discussed above, the proposed project would be below the applicable thresholds identified by BAAQMD. Therefore, the proposed project would not conflict with or obstruct implementation of an air quality plan.

Conclusion

As stated previously, the applicable regional air quality plans include the 2001 Ozone Attainment Plan and the 2017 Clean Air Plan. According to BAAQMD, if a project would not result in significant and unavoidable air quality impacts, after the application of all feasible mitigation, the project may be considered consistent with the air quality plans. Because the proposed project would result in emissions below the applicable thresholds of significance and would generally be consistent with the applicable policies and growth assumptions of the 2017 Clean Air Plan, the proposed project would not be considered to conflict with or obstruct implementation of regional air quality plans. In addition, the project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State AAQS. Thus, a **less-than-significant** impact would result.

- c. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Sensitive receptors are typically defined as facilities where sensitive receptor population groups (i.e., children, the elderly, the acutely ill, and the chronically ill) are likely to be located. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, playgrounds, childcare centers, retirement homes, convalescent homes, hospitals, and medical clinics. In the vicinity of the project site, sensitive receptors include the single-family residences located to the north, west, and south, with the nearest existing residence being located approximately 39 feet north of the site.

The major pollutant concentrations of concern are localized carbon monoxide (CO) emissions and TAC emissions, which are addressed in further detail below.

Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. High levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high. Emissions of CO are of potential concern, as the pollutant is a toxic gas that results from the incomplete combustion of carbon-containing fuels such as gasoline or wood. CO emissions are particularly related to traffic levels.

In order to provide a conservative indication of whether a project would result in localized CO emissions that would exceed the applicable threshold of significance, the BAAQMD has established screening criteria for localized CO emissions. According to BAAQMD, a proposed project would result in a less-than-significant impact related to localized CO emission concentrations if all of the following conditions are true for the project:

- The project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, regional transportation plan, and local congestion management agency plans;
- The project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour; and
- The project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, underpass, etc.).

As indicated in the Traffic Impact Analysis Report prepared for the proposed project by TJKM (see Appendix F),⁵ the proposed project would not conflict with the level of service (LOS) standards set forth under the City of Brentwood General Plan and Contra Costa Transportation Authority (CCTA) Congestion Management Program. According to the Traffic Impact Analysis Report, during the Cumulative Plus Project scenario, the intersection of Brentwood Boulevard and Hanson Lane would experience 2,166 peak-hour traffic volumes, and the Brentwood Boulevard and Lone Tree Way intersection would experience 2,741 peak-hour trips. As a result, neither of the intersections analyzed in the Traffic Impact Analysis Report would experience traffic volumes in excess of 44,000 vehicles per hour. Furthermore, the adjacent roadways are not located in an area where vertical or horizontal atmospheric mixing is substantially limited, such as a tunnel or freeway overpass. Therefore, based on the BAAQMD's screening criteria for localized CO emissions, the proposed project would not be expected to result in substantial levels of localized CO at surrounding intersections or generate localized concentrations of CO that would exceed standards or cause health hazards.

TAC Emissions

Another category of environmental concern is TACs. The CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Health risks associated with TACs are a function of both the concentration of emissions and the duration of exposure, where the higher the concentration and/or the longer the period of time that a sensitive receptor is exposed to pollutant concentrations would correlate to a higher health risk.

The proposed project does not include any operations that would be considered a substantial source of TACs. Accordingly, operations of the proposed project and off-site improvements would not expose sensitive receptors to excess concentrations of TACs.

⁵ TJKM. *Hanson Lane Residential Project Draft Traffic Impact Analysis Report*. February 4, 2022.

However, short-term, construction-related activities could result in the generation of TACs, primarily DPM, from on-road haul trucks and off-road equipment exhaust emissions. Although DPM emissions from on-road haul trucks would be widely dispersed throughout the project site and surrounding vicinity as haul trucks move goods and material to and from the site, exhaust from off-road equipment would primarily occur within the project site. In the vicinity of the project site, sensitive receptors include the single-family residences located to the north, west, and south, with the nearest existing residence being located approximately 39 feet north of the site. Consequently, the operation of off-road equipment within the project site during project construction could result in exposure of nearby residents to DPM.

To assess the potential impacts of TACs, the BAAQMD maintains thresholds of significance for the review of local community risk and hazard impacts. The thresholds are designed to assess the impact of new sources of TACs on existing sensitive receptors. Based on the BAAQMD thresholds, the proposed project would result in a significant impact related to TACs if, due to the exposure of sensitive receptors to TACs, nearby sensitive receptors would exceed the following:

- An increased cancer risk of greater than or equal to 10 in one million people;
- A chronic non-cancer hazard index (HI) greater than greater than or equal to 1.0; or
- An annual average PM_{2.5} concentration of 0.3 micrograms per cubic meter (µg/m³) or greater.

Additionally, according to BAAQMD, an impact associated with TACs would occur if the aggregate total of all past, present, and foreseeable future sources within a 1,000-foot radius from the fence line of a source, or from the location of a receptor, plus the contribution from the project, would exceed the following:

- An increase in cancer risk levels (from all local sources) of more than 100 persons in one million;
- A chronic non-cancer HI (from all local sources) greater than 10.0; or
- An annual average PM_{2.5} concentration (from all local sources) of 0.8 µg/m³ or greater.

Following BAAQMD guidance, the concentrations of pollutants from construction of the proposed project were calculated using the American Meteorological Society/Environmental Protection Agency (AMS/EPA) Regulatory Model (AERMOD) dispersion model. Construction DPM emissions (represented as PM_{2.5} exhaust) were estimated using CalEEMod, Version 2020.4.0. To assess impacts to off-site sensitive receptors, receptor locations within the AERMOD model were placed at locations of existing residences, parks, and churches located within approximately 1,000 feet of the project boundary. Health risks were then calculated based on the risk assessment guidelines of the 2015 Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for Preparation of Health Risk Assessments.⁶ The results of the analysis are provided below.

⁶ Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments*. February 2015.

Project Construction Health Risk Assessment

According to the Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report, the estimated health and hazard impacts from construction emissions at the maximally impacted sensitive receptor are presented in Table 4.

| Table 4 Estimated Health Risks and Hazards – Project Construction | | | | |
|---|------------------|---|--|---|
| Scenario | Age Group | Cancer Risk (risk per million) | Chronic Non-Cancer Hazard Index¹ | Annual PM_{2.5} Concentration (µg/m³) |
| Off-site Receptors Exposed to Construction Duration | Infant | 5.61 | 0.008 | 0.041 |
| | Child | 1.93 | 0.008 | 0.041 |
| | Adult | 0.21 | 0.008 | 0.041 |
| Highest from Any Scenario | | | | |
| Risks and Hazards from any Scenario | | 5.61 | 0.008 | 0.041 |
| BAAQMD Thresholds of Significance | | 10 | 1 | 0.3 |
| Exceeds Threshold? | | No | No | No |
| ¹ Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as PM _{2.5} exhaust) by the reference exposure level of 5 µg/m ³ . | | | | |
| Source: FirstCarbon Solutions, March 2022 (see Appendix A). | | | | |

As shown above in Table 4, the proposed project’s construction DPM emissions would not exceed the BAAQMD’s cancer risk, chronic non-cancer HI, or annual PM_{2.5} thresholds of significance at the maximally impacted sensitive receptor in any of the scenarios analyzed. Therefore, the proposed project’s construction emissions would not result in significant health impacts to nearby sensitive receptors.

Aggregate Total Health Risk Assessment

According to BAAQMD, an impact associated with TACs would also occur if the aggregate total of all past, present, and foreseeable future sources within a 1,000-foot radius from the fence line of a source, or from the location of a receptor, plus the contribution from the project, would exceed the applicable thresholds discussed above. Accordingly, the Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report included a cumulative Health Risk Assessment (HRA) that examined the aggregate total impacts of the proposed project’s construction emissions and sources of TAC emissions within 1,000 feet of the project site, including existing stationary sources such as the City of Brentwood Solid Waste Operations facility and a ready-mix concrete manufacturing operation, as well as existing local roadways, highways, and railways. The aggregate total health risk results are summarized in Table 5. The aggregate total health risk results shown therein are representative of the health risks to the maximally impacted sensitive receptor, which would experience the highest concentration of pollutants.

| Table 5 Aggregate Total Health Risks and Hazards | | | | |
|--|---|--------------------------------------|-----------------------|--|
| Source | Source Type | Cancer Risk (per million) | Chronic HI | PM_{2.5} Concentration (µg/m³) |
| Project Construction | | | | |
| Project Construction | Diesel Construction Equipment | 5.61 | 0.008 | 0.041 |
| Existing Stationary Sources (BAAQMD Facility Number)¹ | | | | |
| City of Brentwood Wastewater Treatment Plant (15789) | Wastewater Treatment | 23.99 | 0.040 | 0.219 |
| Antioch Building Materials (18249) | Ready-Mix Concrete Manufacturing Operations | 0.00 | 0.000 | 36.275 |
| Existing Roadways | | | | |
| Existing Local Roadways (>30,000 Annual Average Daily Trips) | | 0.35 | -- | 0.006 |
| Existing Highways | | | | |
| Existing Highways | | 7.20 | -- | 0.087 |
| Existing Rail | | | | |
| Existing Railways | | 0.34 | -- | 0.001 |
| Aggregate Total Health Risks without Project Construction | | | | |
| Aggregate Total at the maximally impacted sensitive receptor from Existing Sources | | 31.88 | 0.040 | 36.588 |
| BAAQMD's Cumulative Thresholds of Significance | | 100 | 10 | 0.8 |
| Threshold Exceedance? | | No | No | Yes |
| Aggregate Total Health Risks with Project Construction | | | | |
| Aggregate Total with Project Construction | | 37.49 | 0.048 | 36.629 |
| BAAQMD's Cumulative Thresholds of Significance | | 100 | 10 | 0.8 |
| Threshold Exceedance? | | No | No | Yes |
| ¹ Assumes emissions remain constant with time. | | | | |
| Source: FirstCarbon Solutions, March 2022 (see Appendix A). | | | | |

As shown in Table 5, construction of the proposed project in conjunction with existing sources of TACs would result in PM_{2.5} concentrations in excess of the BAAQMD's applicable aggregate total threshold of significance. It is noted, however, that the existing sources, without consideration of the proposed project's construction, already exceed the aggregate total threshold and the proposed project would only result in a 0.04 µg/m³

increase. Nonetheless, because the aggregate total PM_{2.5} concentration would exceed the applicable threshold of significance, the proposed project could be considered to expose sensitive receptors to substantial pollution concentrations and a significant impact could occur.

Aggregate Total Health Risk Assessment for Future Residents

The proposed project would locate new sensitive receptors (residents) that could be subject to health risks associated with existing sources of TACs in the vicinity of the project site. However, the California Supreme Court concluded in *California Building Industry Association v. BAAQMD* that agencies generally subject to CEQA are not required to analyze the impact of existing environmental conditions on a project's future users or residents. Rather, "... when a proposed project risks exacerbating those environmental hazards or conditions that already exist, an agency must analyze the potential impact of such hazards on future residents or users. In those specific instances, it is the project's impact on the environment—and not the environment's impact on the project—that compels an evaluation of how future residents or users could be affected by exacerbated conditions." Although the Court ruled that impacts from the existing environment on projects are not required to be addressed under CEQA, an HRA evaluating the health risks at the future residences on the project site has been conducted by FirstCarbon Solutions, the results of which are included herein for informational and disclosure purposes only and not as a measure of the project's significance under CEQA.

As stated above, the BAAQMD recommends assessing the potential aggregate total impacts from sources of TACs within 1,000 feet of a project. As a result, the aggregate total HRA was performed using BAAQMD-provided screening tools that examined the aggregate total impacts of existing sources of TAC emissions within 1,000 feet of the project site. Table 6 summarizes the aggregate total health risks anticipated to occur at the project site at project buildout. As shown in the table, the concentration of PM_{2.5} would exceed the applicable threshold of significance at the project site.

The installation and maintenance of filters meeting the Minimum Efficiency Reporting Value (MERV) 13 standard are typically sufficient to reduce health risks to residential sensitive receptors from prominent sources of TACs. Although MERV 13 filters are required in new residential development by Title 24 building code standards, MERV filters require regular maintenance and replacement to remain effective. In addition, based on the HRA conducted as part of the Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report, the health risks at proposed residential sensitive receptors on the project site, even after considering the reductions from the installation and regular maintenance of MERV 13 filters, would continue to exceed the BAAQMD-recommended thresholds. Therefore, a site-specific analysis is recommended to be performed by a qualified air quality specialist using dispersion modeling to more accurately estimate and recommend measures to address health risks at the project site, which would be included as a project condition of approval.

Conclusion

Based on the above discussion, the proposed project would not expose any sensitive receptors to substantial concentrations of localized CO. However, project construction emissions, in conjunction with other existing sources of TAC emissions, could expose sensitive receptors to substantial concentrations of TACs. Therefore, the proposed project

could result in a **potentially significant** impact related to the exposure of sensitive receptors to substantial pollutant concentrations.

| Table 6 Aggregate Total Health Risks and Hazards at Future On-site Residences | | | | |
|--|---|----------------------------------|-------------------|--|
| Source | Source Type | Cancer Risk (per million) | Chronic HI | PM_{2.5} Concentration (µg/m³) |
| Existing Stationary Sources (BAAQMD Facility Number)¹ | | | | |
| City of Brentwood Wastewater Treatment Plan (15789) | Wastewater Treatment | 23.99 | 0.040 | 0.219 |
| Antioch Building Materials (18249) | Ready-Mix Concrete Manufacturing Operations | 0.00 | 0.000 | 36.275 |
| Existing Roadways | | | | |
| Existing Local Roadways (>30,000 Annual Average Daily Trips) | | 0.35 | -- | 0.006 |
| Existing Highways | | | | |
| Existing Highways | | 7.20 | -- | 0.087 |
| Existing Rail | | | | |
| Existing Railways | | 0.34 | -- | 0.001 |
| Aggregate Total Health Risks | | | | |
| Cumulative Total | | 31.88 | 0.04 | 36.588 |
| BAAQMD's Cumulative Thresholds of Significance | | 100 | 10 | 0.8 |
| Threshold Exceedance? | | No | No | Yes |
| ¹ Assumes emissions remain constant with time. | | | | |
| Source: FirstCarbon Solutions, March 2022 (see Appendix A). | | | | |

Mitigation Measure(s)

According to the Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report, the use of Tier 4 Interim engines would be sufficient to reduce PM_{2.5} emissions below the applicable thresholds. Therefore, implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

- III-1. *Prior to the issuance of any demolition, grading, or building permits (whichever occurs first), the project applicant and/or construction contractor shall prepare a construction operations plan that, during construction activities, requires all off-road equipment with engines greater than 50 horsepower to meet U.S. Environmental Protection Agency*

particulate matter emissions standards for Tier 4 Interim engines. The construction contractor shall maintain records documenting compliance with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number.

The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the City of Brentwood Community Development Department.

- d. Emissions such as those leading to odor have the potential to adversely affect people. Emissions of principal concern include emissions leading to odors, emission that have the potential to cause dust, or emissions considered to constitute air pollutants. Air pollutants have been discussed in sections “a” through “d” above. Therefore, the following discussion focuses on emissions of odors and dust.

Odors

According to the BAAQMD CEQA Guidelines, odors are generally regarded as an annoyance rather than a health hazard.⁷ Manifestations of a person’s reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The presence of an odor impact is dependent on a number of variables including: the nature of the odor source; the frequency of odor generation; the intensity of odor; the distance of odor source to sensitive receptors; wind direction; and sensitivity of the receptor.

Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, quantitative analysis to determine the presence of a significant odor impact is difficult. Typical odor-generating land uses include, but are not limited to, wastewater treatment plants, landfills, and composting facilities. The proposed project would not introduce any such land uses.

Construction activities often include diesel-fueled equipment and heavy-duty trucks, which could create odors associated with diesel fumes that may be considered objectionable. However, construction activities would be temporary, and hours of operation for construction equipment would be restricted to daytime hours Monday through Friday (and until 5:30 pm with the written approval of the City Engineer) pursuant to Section 9.32.050 of the City of Brentwood Municipal Code. Project construction would also be required to comply with all applicable BAAQMD rules and regulations, particularly associated with permitting of air pollutant sources. The aforementioned regulations would help to minimize emissions, including emissions leading to odors. Accordingly, substantial objectionable odors would not be expected to occur during construction activities.

It should be noted that BAAQMD regulates objectionable odors through Regulation 7, Odorous Substances, which does not become applicable until the Air Pollution Control Officer (APCO) receives odor complaints from ten or more complainants within a 90-day period. Once effective, Regulation 7 places general limitation on odorous substances and specific emission limitations on certain odorous compounds, which remain effective

⁷ Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines*. May 2017.

until such time that citizen complaints have been received by the APCO for one year. The limits of Regulation 7 become applicable again when the APCO receives odor complaints from five or more complainants within a 90-day period. Thus, although not anticipated, if odor complaints are made after the proposed project and off-site improvements are developed, the BAAQMD would ensure that such odors are addressed and any potential odor effects are minimized or eliminated.

While impacts of the existing environment on the proposed project is outside the purview of CEQA,⁸ the project site is located within the vicinity of several potential sources of odors. Specifically, the following land uses would be considered odor generators:

- The City of Brentwood Waste Water Treatment located approximately 0.15 mile to the southwest of the project site;
- The Ready-Mix Concrete Manufacturing Operations located approximately 0.10 mile to the southwest of the project site;
- The Smith Family Farm located approximately 0.45 mile to the east of the project site;
- RC Upick Cherries located approximately 0.50 mile to the east of the project site; and
- Bermudez's Auto Services and Repair located approximately 0.18 mile southeast of the project site.

However, as part of the Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report the most recent three-year odor complaint history was obtained from BAAQMD for the potential odor generators within the vicinity of the project site. Based on the responses from the BAAQMD public records, complaints for potential odor sources within two miles of the project site have not been filed during the most recent three-year period. Considering nearby potential sources of odor have not had any odor complaints on record during the most recent three-year period, the uses in the project vicinity would not expose future receptors introduced by the proposed project to substantial odor impacts.

Dust

The City of Brentwood was previously advised of two cases of Valley Fever contracted during an archeological excavation near the southern City limit. Valley Fever is an infection caused by inhalation of the spores of the *Coccidioides immitis* fungus, which grows in soils and are released during earthmoving. As such, grading activities associated with construction of the proposed project have the potential to release fungus spores into the air, increasing the risk of infection to nearby residents and construction workers.

However, all projects under the jurisdiction of BAAQMD are required to implement the BAAQMD's BCMMs. Such measures would act to reduce construction-related dust by ensuring that haul trucks with loose material are covered, reducing vehicle dirt track-out, and limiting vehicle speeds within project site, among other methods, which would ensure that construction of the proposed project and off-site improvements do not result in substantial emissions of dust, and that the risk associated with Valley Fever is reduced to the maximum extent feasible. Following project construction, vehicles operating within the project site would be limited to paved areas of the site, and non-paved areas would be landscaped. Nonetheless, proper compliance with the aforementioned regulations cannot

⁸ See *Ballona Wetlands Land Trust v. City of Los Angeles*, [2011] 201 Cal.App.4th 455, 473.

be ensured at this time. Therefore, project construction could include sources of dust that would adversely affect a substantial number of people.

Conclusion

For the aforementioned reasons, construction and operation of the proposed project and off-site improvements would not result in odiferous emissions that would adversely affect a substantial number of people. However, because proper compliance with the BAAQMD BCCMs cannot be ensured at this time, project construction could include sources of dust that would adversely affect a substantial number of people, and a **potentially significant** impact could result.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

III-2. Prior to the issuance of a grading permit, the Applicant/Developer shall prepare an Erosion Prevention and Dust Control Plan. The plan shall be followed by the project's grading contractor and submitted to the City of Brentwood's Public Works Department, which will be responsible for field verification of the plan during construction.

The plan shall comply with the City's grading ordinance and shall include the following control measures and other measures as determined by the Public Works Department to be necessary in order to achieve full compliance with the City's grading ordinance:

- *Cover all trucks hauling construction and demolition debris from the site;*
- *Water all exposed or disturbed soil surfaces at least twice daily;*
- *Use watering to control dust generation during demolition of structures or break-up of pavement;*
- *Pave, apply water three time daily, or apply (non-toxic) soil stabilizers on all unpaved parking areas and staging areas;*
- *Sweep daily (with water sweepers) all paved parking areas and staging areas;*
- *Provide daily clean-up of mud and dirt carried onto paved streets from the site;*
- *Enclose, cover, water twice daily or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.);*
- *Limit traffic speeds on unpaved roads to 15 mph;*
- *Install sandbags or other erosion control measures to prevent silt runoff to public roadways;*
- *Replant vegetation in disturbed areas as quickly as possible;*
- *Install wheel washers for all exiting trucks, or wash off the tires or tracks of all trucks and equipment leaving the site;*
- *Install wind breaks, or plant trees/vegetative wind breaks at windward side(s) or construction areas;*
- *Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph;*

- *Limit the area subject to excavation, grading, and other construction activity at any one time;*
- *Unnecessary idling of construction equipment shall be avoided;*
- *Equipment engines shall be maintained in proper working condition per manufacturers' specifications;*
- *During periods of heavier air pollution (May to October), the construction period shall be lengthened to minimize the amount of equipment operating at one time, provided construction occurs within the hours allowed by the City of Brentwood Municipal Code and General Plan;*
- *Where feasible, the construction equipment shall use cleaner fuels, add-on control devices and conversion to cleaner engines.*

III-3. To the maximum extent feasible, construction employees shall be hired from local populations, which are more likely to have been previously exposed to the fungus that causes Valley Fever, and are, therefore, immune.

IV. BIOLOGICAL RESOURCES.

Would the project:

| | 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 Wildlife or U.S. Fish and Wildlife Service? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion

a,f. The following discussion is based primarily on a Planning Level Survey Report prepared for the proposed project by Moore Biological Consultants.⁹

The project site is currently undeveloped and is covered with ruderal vegetation. Grasslands in the site have been highly disturbed by past agricultural use and other human activity, including mowing and discing. A leveled field in the central-east part of the site has been fallow for the last few years, but appears to have historically supported annual crops. A weedy soil stockpile is located in the northeast part of the site. Some portions of the site are bare, as the soils are extremely sandy, while other areas support weedy ruderal grassland vegetation. The northwest and southwest parts of the site historically supported orchards and are mapped as Urban/Developed in the East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan (ECCCHCP/NCCP) Fee Zone Maps, while the remainder of the site is mapped as Ruderal Grassland. A remnant concrete foundation is located in the southwest corner of the site as a home site was historically situated in the area. Areas with past disturbance typically do not support native plant species or communities. The dominant grass species found on the project site include oats (*Avena* sp.), ripgut brome (*Bromus diandrus*), foxtail barley (*Hordeum murinum*), and perennial ryegrass (*Lolium perenne*).

The majority of the existing trees on site are found in the southwest portion of the site. Representative species in the tree cluster include California pepper tree (*Schinus molle*),

⁹ Moore Biological Consultants. *Application Form and Planning Survey Report*. March 1, 2022.

juniper (*Juniperus* sp.), olives (*Olea europaea*), and a few other ornamental species. Two black walnut (*Juglans californica*) trees are located in the northeast portion of the site and two ornamental trees, a stone fruit tree, and a palm tree (*Washingtonia* sp.) are located along the west edge of the site. The smaller trees along the west edge of the site appear to be volunteers from the adjacent subdivision.

Special-status species include plant and wildlife species that have been formally listed, are proposed as endangered or threatened, or are candidates for such listing under the federal and State Endangered Species Acts. Both acts afford protection to listed and proposed species. In addition, the California Department of Fish and Wildlife (CDFW) Species of Special Concern, which are species that face extirpation in California if current population and habitat trends continue, U.S. Fish and Wildlife Service (USFWS) Birds of Conservation Concern, sensitive species included in USFWS Recovery Plans, and CDFW special-status invertebrates are all considered special-status species. Although CDFW Species of Special Concern generally do not have special legal status, they are given special consideration under CEQA. In addition to regulations for special-status species, most birds in the U.S., including non-status species, are protected by the Migratory Bird Treaty Act (MBTA) of 1918. Under the MBTA, destroying active nests, eggs, and young is illegal. In addition, plant species on California Native Plant Society (CNPS) Lists 1 and 2 are considered special-status plant species and are protected under CEQA.

A search of the California Natural Diversity Database (CNDDDB) was conducted in order to identify special-status plant and wildlife species that may occur at or near the project site. The intent of the database review was to identify documented occurrences of special-status species in the vicinity of the project area, to determine their locations relative to the project site, and to evaluate whether the site meets the habitat requirements of such species. Based on the results of the CNDDDB search, several special-status plant and wildlife species are known to occur within the project region. However, due to past site disturbance, the majority of species are not expected to occur on-site due to lack of suitable habitat(s).

The project site is located within the boundaries of the ECCCHCP/NCCP, which is intended to provide an effective framework to protect natural resources in the County, including special-status species. In February 2015, the East Contra Costa County Habitat Conservancy prepared an ECCCHCP/NCCP Assessment of Plan Effects on CEQA Species.¹⁰ The purpose of the assessment was to provide a programmatic, cumulative CEQA effects analysis for CEQA species not covered by the HCP/NCCP. The 2015 ECCCHCP/NCCP Assessment of Plan Effects on CEQA Species concluded that mitigation measures required in the ECCCHCP/NCCP also provide mitigation for non-covered species; therefore, projects consistent with the ECCCHCP/NCCP would have a less-than-significant impact on other potential special-status species.

According to the 2015 ECCCHCP/NCCP Assessment of Plan Effects on CEQA Species, for all but two of the potential special-status species addressed (Lime Ridge navarretia [*Navarretia gowenii*] and the Lime Ridge eriastrum [*Eriastrum ertterae*]), impacts would be less than significant under CEQA. Because of uncertainty regarding the distribution of the Lime Ridge navarretia and the Lime Ridge eriastrum, the 2015 ECCCHCP/NCCP Assessment of Plan Effects on CEQA Species concluded that a potentially significant

¹⁰ H.T. Harvey & Associates. *East Contra Costa County Habitat Conservation Plan – Assessment of Plan Effects on CEQA Species*. February 17, 2015.

impact could occur related to the two aforementioned species. Moore Biological Consultants did not identify any known occurrences of Lime Ridge navarretia or Lime Ridge eriastrum within the project site or immediate vicinity. Therefore, implementation of the proposed project and off-site improvements would not impact the species. Based on the conclusions of the 2015 ECCCHCP/NCCP Assessment of Plan Effects on CEQA Species and the absence of the Lime Ridge navarretia and Lime Ridge eriastrum in the vicinity of the project site, the proposed project would have a less-than-significant impact on any potential special-status wildlife species and potential special-status plant species not covered by the ECCCHCP/NCCP that could occur within the vicinity of the project site because the proposed project would be required to comply with the ECCCHCP/NCCP.

Special-Status Plants

Special-status plants generally occur in relatively undisturbed areas within vegetation communities such as vernal pools, marshes and swamps, chenopod scrub, seasonal wetlands, riparian scrub, chaparral, alkali playa, dunes, and areas with unusual soil characteristics.

Based on the CNDDDB search conducted for the project area, a total of forty-eight special-status plant species are known to occur within the general vicinity of the project site. However, based on the results of the site surveys conducted by Moore Biological Consultants on October 23, 2020 and January 25, 2022 for the project site, special-status plant species have not been observed on the project site. Moreover, the project site has been disced and mowed periodically for years, and, thus, is not suitable habitat for any special-status plant species known to occur in the region. Therefore, Moore concluded that impacts to special-status plant species would not occur as a result of the proposed project.

Special-Status Wildlife

Based on the CNDDDB search conducted for the project area, a total of twenty-two special-status wildlife species are known to occur within the vicinity of the project site. However, due to a lack of suitable habitat on the project site, nineteen special-status species were eliminated from consideration of being present within the site. The remaining three species that may occur on-site include the western burrowing owl (*Athene cunicularia* ssp. *Hypugaea*), Swainson's hawk (*Buteo swainsonii*), and golden eagle (*Aquila chrysaetos*), as well other nesting birds and raptors protected by the MBTA. The three aforementioned special-status species are protected under the ECCCHCP/NCCP. Each species is discussed in further detail below.

Western Burrowing Owl

The western burrowing owl is a California Species of Special Concern. Burrowing owl habitat is usually found in annual and perennial grasslands, characterized by low- growing vegetation. The primary habitat requirement for western burrowing owls is small mammal burrows that the species uses for nesting. Typically, the species uses abandoned ground squirrel burrows, but western burrowing owls have been known to dig burrows in softer soils. In urban areas, western burrowing owls may use pipes, culverts, and piles of material as artificial burrows. Western burrowing owls breed semi-colonially from March through August.

The project site is located within the identified range of western burrowing owl. The closest known CNDDDB western burrowing owls record is approximately 1,000 feet from the project

site. The majority of the project site consists of disked farmed fields and the site survey conducted at the project site did not find any western burrowing owls or burrows with evidence of burrowing owl occupancy. Nonetheless, because suitable habitat for western burrowing owl may exist on the project site, pre-construction surveys for burrowing owls would be required by the ECCCHCP/NCCP to confirm presence or absence of the species. If burrowing owls are present on or near the project site, the proposed project and off-site improvements could result in an adverse impact to the species.

Swainson's Hawk

The Swainson's hawk is a state-listed threatened species under the CESA. The Swainson's hawk is generally a summer visitor to California; however, a small population of Swainson's hawks remain residents in California year-round. The Swainson's hawk inhabits open to semi-open areas at low to middle elevations in valleys, dry meadows, foothills, and level uplands. The species nests almost exclusively in trees and will nest in almost any tree species that is at least 10 feet tall. Swainson's hawks also occasionally nest in shrubs, on telephone poles, and on the ground. Foraging habitats include alfalfa fields, fallow fields, beet, tomato, and other low-growing row or field crops, dry-land and irrigated pasture, and rice land when not flooded. In addition, agricultural practices allow for access to prey, and very likely increases foraging success of Swainson's hawks when farm equipment flushes prey during harvesting.

The closest CNDDDB nesting record for the species is 0.65-mile southwest of the project site in a large tree near the intersection of Grant Street and Lone Oak Road. Swainson's hawk have not been detected nesting on the project site during site surveys. However, trees growing in the southwest corner of the project site provide suitable nesting habitat. In addition, the project site constitutes foraging habitat that could be used by the Swainson's hawk. Pre-construction surveys for Swainson's hawk are required by the ECCCHCP/NCCP to confirm the presence or absence of the species. If the species were to occur on or near the project site, implementation of the proposed project and off-site improvements could result in direct take or nest abandonment, which would be considered an adverse impact.

Golden Eagle

The golden eagle is designated as a California Species of Special Concern and is fully protected under the Bald and Golden Eagle Protection Act. Golden eagles are found breeding throughout western North America in remote open habitats. Typical habitats in North America include savannah woodland habitats, grasslands, aspen parkland, high and low deserts, and in taiga and zone habitats. Golden eagles build nests in large trees, often eucalyptus, oaks, or conifers, or on large vertical cliffs. On rare occasions nests are found on the ground, especially in expansive prairie habitats where cliffs and/or trees are scarce. Golden eagle nest from January until September with peak nesting occurring in March through July.

According to the CNDDDB database, known occurrences have not been recorded within 0.5 mile of the project site. The existing trees on the project site and trees near and visible from the site provide suitable habitat for golden eagle. The site survey conducted by Moore Biological Consultants included inspection of the trees on and near the project site for raptor stick nests. Golden eagles and raptor nests were not observed during the surveys; however, the potential exists for golden eagle to occur on the project site. Pre-construction surveys for golden eagle are required by the ECCCHCP/NCCP to confirm presence or

absence of the species. If golden eagle is present on or near the project site, the proposed project and off-site improvements could result in an adverse impact to the species.

Nesting Raptors and Migratory Birds

The project site contains existing trees that could be used by raptors and migratory birds protected by the MBTA for nesting. Construction activities that adversely affect the nesting success of raptors and migratory birds (i.e., lead to the abandonment of active nests) or result in mortality of individual birds constitute a violation of State and federal laws. Thus, in the event that such species occur on-site during the breeding season, project construction activities could result in an adverse effect to species protected under the MBTA.

ECCCHCP/NCCP Requirements

Procedures for pre-construction surveys, best management practices, and construction monitoring, as well as Applicable Avoidance and Minimization Measures for species covered by the ECCCHCP/NCCP are outlined in Section 6.3.3 Surveys for Construction Monitoring and Section 6.4.3 Species-Level Measures of the ECCCHCP/NCCP.¹¹ The project would be required to comply with all ECCCHCP/NCCP requirements, including conducting pre-construction surveys prior to ground disturbance activities to establish whether nests or burrows of western burrowing owl, Swainson's hawk, and golden eagle are occupied. If nests or burrows are occupied, the project would be required to comply with the minimization requirements and construction monitoring in the ECCCHCP/NCCP. In compliance with the ECCCHCP/NCCP, the project would also be required to follow Applicable Avoidance and Minimization Measures if nests are located within 1,000 feet of the project site.

All birds covered by the ECCCHCP/NCCP are also considered migratory birds and subject to the prohibitions of the MBTA. Therefore, actions conducted under the ECCCHCP/NCCP comply with the provisions of the MBTA. Because the project would comply with all ECCCHCP/NCCP requirements, the project would also comply with the provisions of the MBTA.

Furthermore, the proposed project would be subject to pay all applicable fees according to the Fee Zone Map of the ECCCHCP/NCCP prior to construction. The project applicant would be required to pay the appropriate fees based on the applicable fee calculator at the time of development.

Conclusion

Based on the above, western burrowing owl, Swainson's hawk, and golden eagle, as well as other nesting birds and raptors protected by the MBTA have the potential to occur on-site. Without compliance with ECCCHCP/NCCP requirements, and the required pre-construction surveys for western burrowing owl, Swainson's hawk, and golden eagle, the proposed project and off-site improvements could have an adverse effect, either directly or through habitat modifications, on species identified as special-status species in local or regional plans, policies, or regulations, or by the CDFW or the USFWS, and a **potentially significant** impact could result.

¹¹ East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan*. October 2006.

Mitigation Measure(s)

Implementation of the following mitigation measures would ensure the above impact is reduced to a *less-than-significant* level.

- IV-1(a). *Prior to any ground disturbance related to activities covered under the ECCCHCP, a preconstruction survey of the 4.08-acre development plan area shall be completed. The surveys shall establish the presence or absence of western burrowing owl and/or habitat features, and evaluate use by owls in accordance with CDFW survey guidelines.*

An approved biologist will conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The surveys will establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995). On the parcel where the activity is proposed, the biologist will survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership will not be surveyed. Surveys should take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls will be identified and mapped. Surveys will take place no more than 30 days prior to construction. During the breeding season (February 1—August 31), surveys will document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1—January 31), surveys will document whether burrowing owls are using habitat in or directly adjacent to any disturbance area. Survey results will be valid only for the season (breeding or nonbreeding) during which the survey is conducted. If burrowing owls and/or burrows are identified in the survey area, Mitigation Measure 3B shall be implemented. If burrowing owls and/or suitable burrows are not discovered, then further mitigation is not necessary.

- IV-1(b). *If burrowing owls are found during the breeding season (February 1 August 31), the project proponent will avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance will include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 —January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance will include the establishment of a buffer zone (described below). During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur will be established around each occupied burrow (nest site). Buffer zones of 160 feet will be established around each burrow being used during the nonbreeding season. The buffers will be delineated by highly visible, temporary construction fencing, if occupied burrows for burrowing owls are not avoided, passive relocation will be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be*

monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

IV-1(c). *Prior to any ground disturbance, a pre-construction survey for covered migratory birds shall be completed. This survey shall be conducted in the morning or evening hours within 30 days prior to any construction activities. The entire site and surrounding vegetation, will be surveyed for birds, nests and nesting behavior. Common nesting behavior by birds includes; collecting nesting materials, bringing food items to a nest and vocalizations from young or from adults to attract a mate and to establish or defend a nesting territory. A construction-free buffer of suitable dimensions must be established around any active migratory bird nests (up to 250 feet, depending on the location and species) for the duration of the project or until it has been determined by a qualified ornithologist that the chicks have fledged and are independent of their parents.*

b,c. Riparian habitats are described as the land and vegetation that is situated along the bank of a stream or river. Wetlands are areas where water covers the soil, or is present either at or near the surface of the soil all year or for varying periods of time during the year. Vernal pools are seasonal depressional wetlands that are covered by shallow water for variable periods from winter to spring, but may be completely dry for most of the summer and fall. Vernal pools range in size from small puddles to shallow lakes, and are usually found in gently sloping plains of grasslands.

Moore Biological Consultants assessed potential presence of jurisdictional Waters of the U.S. or wetlands on the site during the site surveys conducted on October 23, 2020 and January 25, 2022. The assessment found that jurisdictional Waters of the U.S. or wetlands of any type are not present on the site. The site consists primarily of highly disturbed ruderal grassland vegetation and on-site soils are sandy and appear well draining. Marsh Creek, which is adjacent to the eastern boundary of the site, would be fully avoided during project construction. However, the proposed project would discharge treated storm water into Marsh Creek through an existing storm drain outfall. Additionally, a sewer line would be constructed under the Marsh Creek channel through the use of bore and jack technology. Nonetheless, the proposed project and off-site improvements would be required to comply with HCP Conservation Measure 2.12, Wetland, Pond, And Stream Avoidance and Minimization, and Conservation Measure 1.7, Establish Stream Setbacks. Conservation Measure 2.12 would ensure the proposed project results in minimal impacts to Marsh Creek through erosion control, proper disposal of trash, and limiting construction activities and herbicide use near Marsh Creek. In addition, Conservation Measure 1.7 would establish stream setbacks to in order protect existing habitat and water quality, and hydrologic processes through buffering. Without compliance with Conservation Measures 2.23 and 1.7, the proposed project and off-site improvements could result in a potentially significant impact to Marsh Creek.

Furthermore, bore and jack operations would occur well below the bed elevation of Marsh Creek; thus, avoiding Clean Water Act (CWA) regulated areas, and a permit from the U.S. Army Corps of Engineers (USACE) would not be required. Accordingly, a permit from the Regional Water Quality Control Board (RWQCB), pursuant to Section 401 of the CWA,

would not be required. However, the CDFW has jurisdiction over the bed and bank of natural drainages and lakes according to provisions of Section 1601 and 1602 of the California Fish and Game Code. Activities that may substantially modify such waters through the diversion or obstruction of their natural flow, change or use of any material from their bed or bank, or the deposition of debris require a Notification of Lake or Streambed Alteration. If CDFW determines that an activity may adversely affect fish and wildlife resources, a Lake or Streambed Alteration Agreement must be prepared. Such an agreement typically stipulates that certain measures would be implemented to protect the habitat values of the lake or drainage in question. Because the proposed sewer pipeline could require modification of the Marsh Creek bank, the proposed project and off-site improvements could potentially impact CDFW-jurisdictional features.

Based on the above, the proposed project would not have a substantial adverse effect on any sensitive natural communities located within the project site. However, because the project would include the construction of a sewer pipeline under the Marsh Creek channel through bore and jack technology, the project could require issuance of a Lake or Streambed Alteration Agreement prior to initiation of construction activities. Should the proposed project and off-site improvements fail to comply with the necessary permitting requirements prior to the start of construction activities, a **potentially significant** impact could occur.

Mitigation Measure(s)

The following mitigation measures would reduce the above-stated impacts to a *less-than-significant* level.

- IV-2 *Notify CDFW. The CDFW maintains jurisdiction over the bed and bank of the bed, channel, and banks of any river, stream, or lake (Fish and Game Code Section 1602) and impacts to these areas may require a Lake or Streambed Alteration Agreement. Prior to initiating construction activities, the project contractor shall notify CDFW of the intentions of the project to determine if a Lake or Streambed Alteration Agreement is required. The information provided shall include a description of all of the activities associated with the proposed project, not just those closely associated with Marsh Creek. Impacts shall be outlined in the application and shall be broken down by temporary and permanent impacts, and a description of the proposed mitigation for biological resource impacts shall be outlined per activity, and then by temporary and permanent impacts. Information regarding project-specific drainage and hydrology changes resulting from project implementation shall be provided, as well as a description of storm water treatment methods. Minimization and avoidance measures shall be proposed as appropriate and may include: preconstruction species surveys and reporting, protective fencing around avoided biological resources, worker environmental awareness training, seeding disturbed areas adjacent to open space areas with native seed, and installation of project-specific storm water BMPs. A fully executed copy of the Lake or Streambed Alteration Agreement, if one is required by CDFW, shall be submitted to the City of Brentwood Community Development Department prior to initiation of any on-site ground disturbance activities.*

- IV-3. ECCC HCP/NCCP Conservation Measure 2.12: All projects that discharge into or fill waters of the United States, including jurisdictional wetlands, are required to obtain applicable permits from the USACE. All projects that discharge into or fill waters of the State, including jurisdictional wetlands, are required to obtain applicable permits from the RWCQB. Projects that fill streams under the jurisdiction of the State are also required to obtain a streambed alteration agreement with CDFW.

All covered activities will implement the following measures to avoid and minimize impacts of covered activities on wetlands, ponds, streams, and riparian woodland/scrub.

- Projects proposing to fill less than 3.0 acres of jurisdictional wetlands and waters do not need additional avoidance analysis beyond that in the HCP/NCCP. Projects proposing to fill greater than 3.0 acres of jurisdictional wetland and waters must conduct a site-specific analysis of avoidance and minimization measures in the wetland delineation report to demonstrate the project avoids and minimizes impacts on these features to the maximum extent practicable. The avoidance and minimization analysis for projects proposing impacts on more than 3.0 acres of jurisdictional wetlands and waters must be reviewed and approved by the Implementing Entity for projects within the urban development area (UDA) or by CDFW and USFWS for projects outside the UDA, consistent with the regional avoidance accomplished by the HCP/NCCP.

Any regional permit program for aquatic resources that is subsequently adopted by the USACE, RWQCB, or CDFW will contain avoidance and minimization requirements. Those requirements may differ from the avoidance and minimization requirements in this Plan.

- Applicants with streams on site must follow the stream setback requirements in Conservation Measure 1.7.
- Applicants for coverage under the HCP/NCCP must follow the guidelines in Conservation Measure 1.10 to minimize the effects of urban development on downstream hydrology, streams, and wetlands.
- All wetlands, ponds, streams, and riparian woodland/scrub to be avoided by covered activities will be temporarily staked in the field by a qualified biologist.
- Buffer zones should be established where feasible between the aquatic resource and development. Required setbacks for streams are described in Conservation Measure 1.7. Credit for preservation of aquatic habitat will be given only if these features meet minimum distances from dense urban development.
- Fencing will be erected between the outer edge of the buffer zone and the project area. The type of fencing will match the activity and impact types. For example, projects that have the potential to cause erosion will require erosion control barriers (see below), and projects that may bring more household pets to a site should be

fenced to keep the pets out. The temporal requirements for fencing also depend on the activity and impact type. For example, fencing for permanent impacts should be permanent, and fencing for short-term impacts should be removed after the activity is completed.

- Personnel conducting ground-disturbing activities within or adjacent to the buffer zone of wetlands, ponds, streams, or riparian woodland/scrub will be trained by a qualified biologist in these avoidance and minimization measures and the permit obligations of project proponents working under this HCP/NCCP. Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas.
- Trash generated by covered activities will be promptly and properly removed from the site.
- No construction or maintenance vehicles will be refueled within 200 feet of wetlands, ponds, streams, or riparian woodland/scrub unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill.
- Appropriate erosion-control measures (e.g., fiber rolls, filter fences, vegetative buffer strips) will be used on site to reduce siltation and runoff of contaminants into wetlands, ponds, streams, or riparian woodland/scrub. Filter fences and mesh will be of material that will not entrap reptiles and amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians. Erosion-control measures will be placed between the outer edge of the buffer and the project site.
- Fiber rolls used for erosion control will be certified as free of noxious weed seed.
- Seed mixtures applied for erosion control will not contain invasive nonnative species, and will be composed of native species or sterile nonnative species.
- Where feasible, stream crossings will be located in stream segments without riparian vegetation, and bridge footings will be built outside the stream banks (i.e., clear span structures).
- Herbicide will not be applied within 100 feet of wetlands, ponds, streams, or riparian woodland/scrub; however, where appropriate to control serious invasive plants, herbicides that have been approved for use by EPA in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. In seasonal or intermittent stream or wetland environments, appropriate herbicides may be applied during the dry season to control nonnative invasive species (e.g., yellow star-thistle). Herbicide drift should be minimized by applying the herbicide as close to the target area as possible.

IV-4. *ECCC HCP/NCCP Conservation Measure 1.7: A stream setback will be applied to all development projects covered by the HCP/NCCP according to the stream types listed in Table 6-2 of the ECC HCP/NCCP. The setback is measured from the top of the stream bank in an aerial perspective (to eliminate differences in setbacks on different slopes). Where native woody*

riparian vegetation is present, setbacks will extend, at minimum, to the outer dripline of this vegetation. Stream setbacks will be established for all perennial, intermittent, and ephemeral streams for all covered activities within the UDA. Stream setback requirements have been developed on the basis of an extensive literature review of applicable research from both local and national sources (Table 6-3) and in consultation with USFWS, CDFW, USACE, SWRCB, RWQCBs, and EPA. For the purpose of determining required stream setbacks, streams will be assigned to one of five categories.

- *Concrete channel.*
- *First and second order ephemeral reaches in urban and agricultural areas.*
- *First and second order ephemeral reaches in natural areas.*
- *Perennial, intermittent, or third or higher order ephemeral reaches in urban areas except Marsh Creek mainstem.*
- *Perennial, intermittent, or third or higher order ephemeral reaches in agricultural or natural areas and Marsh Creek mainstem.*

No setbacks are required on irrigation ditches, underground stream reaches, or on drainages and swales that have neither defined bed and bank nor evidence of scour or sediment transport. It is anticipated that these features are likely to be filled in the course of covered development activities. However, where impacts to such features are sufficiently extensive to result in changes to the hydrograph of the watershed, measures will be implemented to maintain the baseline hydrograph, in keeping with requirements of the RWQCB (C3 provisions) and Conservation Measure 1.10 (Maintain Hydrologic Conditions and Minimize Erosion). Irrigation ditches, underground stream reaches, and swales may provide important hydrologic/ecologic support functions for other downstream systems and features. Such support functions include being "catchment areas" or hydrologic source areas for surface flows or shallow subsurface flows that support downstream wetlands.

The stream categories above are designed to correlate with existing habitat quality for species covered by the HCP/NCCP and with potential impacts of development to stream functions. Stream setbacks are designed to protect existing habitat quality, to protect water quality and hydrologic processes through buffering, and allow for at least minimal restoration. For informational purposes, the Implementing Entity will create and make available to local jurisdictions digital and hardcopy maps categorizing stream reaches according to this system.

Local jurisdictions will ensure that project proponents seeking coverage under the HCP/NCCP adhere to setback requirements. Rare exceptions to the requirements may be granted by local jurisdictions according to the limitations on exceptions to setback requirements described in Table 6-2 if the local agency finds that complete adherence to the setback requirement is not practicable. Additional, site-specific exceptions will be considered case by case on the basis of factors such as unusual topography or reasonable economic use of a highly constrained site and shall require the

approval of the Implementing Entity for projects within the UDA or the approval of CDFW and USFWS for projects outside the UDA (see Chapter 8, Section 8.7 for more information). Activities granted any such exception must mitigate these additional impacts as described below. Technical assistance will be provided by the Implementing Entity, if needed.

Project proponents are encouraged to site trails and access roads outside the required setback to reduce disturbance to wildlife that use adjacent streams and riparian habitats. When roads and trails cannot be sited outside the required setback, they must be sited as far from the stream channel as practicable, must adhere to limitations on exceptions to stream setback requirements described in Table 6-2, and must mitigate additional impacts as described below. Project proponents are encouraged to use permeable or semi-permeable surfaces on roads and trails within stream setbacks as long as they are consistent with safety and zoning limits. If such surfaces are used, the project may be eligible for fee reductions (see below).

Water quality treatment wetlands and grassy swales may be included within the setback if consistent with the biological goals and objectives of the Plan and the biological goals of the setback.

The HCP/NCCP development fee will not apply to the portions of the development project within the stream setback if the land in the stream setback is precluded from future development (including active recreational facilities such as turf) by restrictions placed in the deed (see Section 9.3.1). If the stream setback deed restriction exceeds the minimum required, the fee may be waived on the entire protected area provided that the Implementing Entity finds that the entire protected area provides a stream buffer benefit. Roads or trails constructed in the outer third of the setback with permeable or semi-permeable surfaces may be accommodated within the deed restriction; projects with such features retain eligibility for the fee waiver.

If deed restrictions are not provided on the stream setback or if the development is granted an exception to the stream setback, the project proponent shall be charged the applicable HCP/NCCP development fee over the entire area (i.e., development area and the diminished setback). Development granted an exception to the stream setback shall also be required to mitigate for the loss of stream buffer by restoring riparian vegetation on site or off-site at a 0.5 to 1 ratio or to pay one half the riparian impact fee per acre of setback encroachment. Development that causes fill of streams or other jurisdictional wetlands and waters shall also be subject to the wetland fee described in Section 9.3.1. All fee requirements described in this paragraph may also be satisfied with the applicable land-in-lieu of fee provisions described in Section 8.6.7 or with the applicable provisions in Section 9.3.1 for applicants to perform direct mitigation for impacts on jurisdictional wetlands and waters in lieu of paying a fee.

The required stream setbacks proposed by this measure are designed to maintain existing habitat value for covered species, which is generally low

within the UDA. Existing habitat value is largely correlated with adjacent land use. While these setbacks are designed to maintain a limited restoration potential, this measure is not intended to be an urban creeks restoration program, which is outside the scope of the HCP/NCCP.

The stream setback measure is intended to achieve the following purposes.

- Maintain or improve water quality by filtering sediments and pollutants from urban runoff before they reach the stream.
- Allow for protection of preserved and restored riparian woodland and scrub within and adjacent to the stream channel.
- Maintain a buffer zone between urban development and existing and restored nesting habitat for Swainson's hawk and other bird species.
- Maintain and enhance the water quality of the stream to protect native fish populations, including populations of special-status species that occur in downstream reaches (e.g., fall-run Chinook salmon in Marsh Creek).
- Maintain a more viable wildlife corridor for some species (e.g., California red-legged frog, foothill yellow-legged frog) than would be present with a narrower buffer zone.
- Maximize the natural flood protection value of the floodplain.
- Provide for recreational trails along the corridor that are compatible with wildlife use.

Setback requirements that are larger or more restrictive than those described in this conservation measure and in Table 6-2 could accomplish additional goals or may be necessary to comply with other regulations, but are not required by this Plan. For example, a wider corridor could provide aesthetic benefits and could increase habitat values, water quality protection, and opportunities for recreation. A minimum stream setback of 100 feet has been recommended in Brentwood to achieve habitat protection and enhancement goals (Natural Heritage Institute 2002). This setback is based on an extensive review of existing conditions in Brentwood and published literature on stream setbacks (e.g., Young et al. 1980; Lynch et al. 1985; Magette et al. 1987; Herson-Jones et al. 1995; Spackman and Hughes 1995; Hagar 1999). Tables 6-3 and 6-4 summarize available data on buffers for a variety of purposes (including some that go beyond the purposes of this conservation measure), and provide examples of existing and proposed buffer requirements elsewhere in the greater San Francisco Bay Area.

Contra Costa County has policies encouraging stream setbacks from new development. The Conservation Element of the General Plan (Contra Costa County 1996b) states:

Setback areas shall be provided along natural creeks and streams in areas planned for urbanization. The setback areas shall be of a width adequate to allow maintenance and to prevent damage to adjacent structures, the natural channel and associated riparian vegetation.

The setback area shall be a minimum of 100 feet; 50 feet on each side of the centerline of the creek (Policy 8-89).

The County also requires minimum setbacks to meet water quality and erosion control goals through a stream ordinance for unimproved earthen channels. This ordinance requires a “structure setback line” that varies between 30 feet and 50 feet from top of bank depending on the height of top of bank above the channel invert (County Code Title 9, Division 914-14.012). Some participating cities have or will have their own similar setback ordinances. All covered activities must also meet County and city setback requirements, where applicable.

- d. Habitat loss, fragmentation, and degradation have the potential to alter the use and viability of wildlife movement corridors (i.e., linear habitats that naturally connect and provide passage between two or more otherwise distinct larger habitats or habitat fragments). The suitability of a habitat as a wildlife movement corridor is related to, among other factors, the habitat corridor’s dimensions (length and width), topography, vegetation, exposure to human influence, and the species in question.

As discussed previously, the project site is surrounded by existing development. Due to the disturbed nature of the project site, the potential for use of the site as a wildlife corridor or native wildlife nursery site is limited. Marsh Creek may currently serve as a limited migration corridor for wildlife. As noted above, bore and jack operations may cause potential disturbance to Marsh Creek; however, implementation of the mitigation measures identified above would ensure impacts related to interfering with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites would be less than significant. However, without compliance with the aforementioned mitigation measures, a **potentially significant** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would ensure the above potential impact is reduced to a *less-than-significant* level.

IV-5. Implement Mitigation Measures IV-3 and IV-4.

- e. Currently, 21 trees are located within the project site, including California pepper tree (*Schinus molle*), juniper (*Juniperus* sp.), olives (*Olea europaea*), and a few other ornamental species in the southwest portion of the site, two black walnut (*Juglans californica*) trees in the northeast portion of the site, and two ornamental trees, a stone fruit tree, and a palm tree (*Washingtonia* sp.) along the western edge of the site. The aforementioned species would be removed during construction of the proposed project. However, the City of Brentwood has not adopted a tree preservation ordinance that would govern the project site. In addition, the proposed project would include the planting of various new landscaping trees throughout the project site. Therefore, the proposed project would not conflict with local policies or ordinances protecting biological resources, and a **less-than-significant** impact would occur.

V. CULTURAL RESOURCES.

Would the project:

| | 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 Section 15064.5? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |
| b. Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to Section 15064.5? | <input type="checkbox"/> | ✘ | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Disturb any human remains, including those interred outside of dedicated cemeteries. | <input type="checkbox"/> | ✘ | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion

The following discussion is based primarily on a Cultural Resources Technical memorandum was prepared for the proposed project by Solano Archaeological Services.¹²

- a. A records search of the California Historic Resources Information System (CHRIS) was performed by the Northwest Information Center (NWIC) for cultural resource site records and survey reports within the project area on November 17, 2021. The records search indicated that cultural resources have not been documented within the project area; however, three sites were recorded within the half-mile search radius. Marsh Creek, which constitutes the eastern boundary of the site, is a waterway that attracted significant Native American activities, and numerous Native American sites have been discovered along the creek.

As part of the Cultural Resources Technical Memorandum conducted for the project area, Solano Archaeological Services conducted a site survey and identified a single historic era site consisting of three loci of early to mid-20th century agricultural equipment and debris. The loci included a 1920 Bean Tank Sprayer used for spread fertilizer and insecticides in row crops and orchards, a wood and iron axl dating to the early decades of the 20th century, and a 1960s pickup truck bed. Other materials found within the site boundaries include a large wood storage or equipment box, and other pieces of degraded agricultural debris. Archival and field research conducted as part of the Cultural Resources Technical Memorandum indicated that the found resources were not directly associated with any historically significant event or person, nor did the resources possess any unique or significant characteristics or significant data potential. Due to a lack of historically significant associations, characteristics, or data potential, Solano Archaeological Services determined the site was not eligible for California Register of Historical Resources (CRHR) listing.

Based on the above, the proposed project and off-site improvements would not cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5, and a **less-than-significant** impact would occur.

- b,c. As discussed above, the CHRIS search conducted for the Cultural Resources Technical Memorandum indicated that cultural resources have not been documented within the project area. In addition, the site visit conducted on November 17, 2021 did not identify and previously unrecorded archeological resources within the Hanson Lane property. Furthermore, a records search by the Native American Heritage Commission (NAHC) of

¹² Solano Archaeological Services, LLC. *Cultural Resources Technical Memorandum*. December 2021.

the Sacred Lands File conducted on November 10, 2021 resulted in negative findings of resources on the project site.

However, considering that unknown archaeological resources, including human remains, and/or historic resources have the potential to exist on-site, ground-disturbing activity related to project construction could encounter such resources. Therefore, the proposed project and off-site improvements could cause a substantial adverse change in the significance of a historic or archaeological resource pursuant to CEQA Guidelines Section 15064.5 and/or disturb human remains, including those interred outside of dedicated cemeteries during construction. Thus, impacts could be considered **potentially significant**.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

- V-1. *Prior to grading permit issuance, the developer shall submit plans to the Community Development Department for review and approval which indicate (via notation on the improvement plans) that a qualified archaeologist shall conduct a Cultural Resources Worker Environmental Awareness Program (WEAP) training for all personnel involved in ground-disturbing, site preparation construction activities on the project site prior to construction and ground-disturbing activities. The training shall include basic information about the types of artifacts that might be encountered during construction activities, and procedures to follow in the event of a discovery. The training shall be provided for any additional personnel added to the project even after the initiation of construction and ground disturbing activities.*
- V-2. *Prior to grading permit issuance, the developer shall submit plans to the Community Development Department for review and approval which indicate (via notation on the improvement plans) that if historic and/or cultural resources are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet and the contractor shall immediately notify the Community Development Department of the discovery. In such case, a qualified archaeological monitor shall be retained by the developer, at its own expense, and shall evaluate any potentially important discovery. Significance determinations shall be measured in terms of criteria for inclusion on the California Register of Historical Resources (Title 14 CCR, §4852[a]), and the definition of tribal cultural resources set forth in Public Resources Code Section 21074. The archaeologist shall be required to submit to the Community Development Department for review and approval a report of the findings and method of curation or protection of the resources. Comments on the report shall be submitted by the Native American tribes within 30 days of receipt of the report. Further grading or site work within the area of discovery shall not be allowed until the preceding work has occurred.*
- V-3. *Prior to grading permit issuance, the developer shall submit plans to the Community Development Department for review and approval which indicate (via notation on the improvement plans) that if human remains, or remains that are potentially human, are found during construction, a*

professional archeologist shall ensure reasonable protection measures are taken to protect the discovery from disturbance. The archaeologist shall notify the Contra Costa County Coroner (per §7050.5 of the State Health and Safety Code). The provisions of §7050.5 of the California Health and Safety Code, §5097.98 of the California Public Resources Code, and Assembly Bill 2641 will be implemented. If the Coroner determines the remains are Native American and not the result of a crime scene, then the Coroner will notify the NAHC, which then will designate a Native American Most Likely Descendant (MLD) for the project (§5097.98 of the Public Resources Code). The designated MLD will have 48 hours from the time access to the property is granted to make recommendations concerning treatment of the remains. If the project contractor does not agree with the recommendations of the MLD, the NAHC can mediate (§5097.94 of the Public Resources Code). If an agreement is not reached, the qualified archaeologist or MLD must rebury the remains where they will not be further disturbed (§5097.98 of the Public Resources Code). This will also include either recording the site with the NAHC or the appropriate Information Center, using an open space or conservation zoning designation or easement, or recording a reinternment document with the county in which the property is located (AB 2641). Work cannot resume within the no-work radius until the lead agencies, through consultation as appropriate, determine that the treatment measures have been completed to their satisfaction.

VI. ENERGY.

Would the project:

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |
| b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |

Discussion

a,b The main forms of available energy supply are electricity, natural gas, and oil. A description of the California Green Building Standards Code and the Building Energy Efficiency Standards, with which the proposed project would be required to comply, as well as discussions regarding the proposed project’s potential effects related to energy demand during construction and operations are provided below.

California Green Building Standards Code

The California Green Building Standards Code, otherwise known as the CALGreen Code (CCR Title 24, Part 11), is a portion of the CBSC. The purpose of the CALGreen Code is to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices. The provisions of the code apply to the planning, design, operation, construction, use, and occupancy of every newly constructed building or structure throughout California. Requirements of the CALGreen Code include, but are not limited to, the following measures:

- Compliance with relevant regulations related to future installation of Electric Vehicle charging infrastructure in residential and non-residential structures;
- Indoor water use consumption is reduced through the establishment of maximum fixture water use rates;
- Outdoor landscaping must comply with the California Department of Water Resources’ Model Water Efficient Landscape Ordinance (MWELO), or a local ordinance, whichever is more stringent, to reduce outdoor water use;
- Diversion of 65 percent of construction and demolition waste from landfills;
- Incentives for installation of electric heat pumps, which use less energy than traditional heating, ventilation, and air conditioning (HVAC) systems and water heaters;
- Required solar PV system and battery storage standards for certain buildings; and
- Mandatory use of low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board.

Building Energy Efficiency Standards

The 2022 Building Energy Efficiency Standards is a portion of the CBSC, which expands upon energy-efficiency measures from the 2019 Building Energy Efficiency Standards, went into effect starting January 1, 2023. The 2022 standards provide for additional efficiency improvements beyond the 2019 standards. The proposed project would be subject to all relevant provisions of the most recent update of the CBSC, including the Building Energy Efficiency Standards. Adherence to the most recent CALGreen Code and

Building Energy Efficiency Standards would ensure that the proposed structures would consume energy efficiently.

Construction Energy Use

The proposed project would require demolition, site preparation, grading, building construction, architectural coating, and paving. The construction phase would require energy for the manufacture and transportation of building materials, preparation of the site (e.g., demolition, site clearing, and grading), and the actual construction of the building. Petroleum-based fuels such as diesel fuel and gasoline would be the primary sources of energy for these tasks.

The types of on-site equipment used during construction of the proposed project could include gasoline- and diesel-powered construction and transportation equipment, including trucks, bulldozers, frontend loaders, forklifts, and cranes. According to the Air Quality, Greenhouse Emissions, and Energy Analysis Report prepared for the project by FirstCarbon Solutions,¹³ construction equipment is estimated to consume a total of 77,507 gallons of diesel fuel over the entire construction duration. Fuel use associated with construction vehicle trips generated by the proposed project, such as construction worker trips, haul truck trips for material transport, and vendor trips for construction material deliveries, was also estimated. In total, the proposed project is estimated to generate 541,162 vehicle miles traveled (VMT) and a combined 24,224 gallons of combined gasoline and diesel for vehicle travel during construction.

Other equipment could include construction lighting, field services (office trailers), and electrically driven equipment such as pumps and other tools. Chapter 9.32.050 of the Brentwood Municipal Code defines permissible hours of construction as between the hours of Monday through Friday from 7:00 AM until 3:30 PM, or until 5:30 PM with the express written approval of the City Engineer or designee. Such work shall not be performed on Saturday or Sunday or City holidays, except that such work may be performed on Saturday between 8:00 AM and 5:00 PM with the express written approval of the City Engineer or designee. As on-site construction activities would be restricted to the aforementioned hours, use of construction lighting is anticipated to be minimal. Singlewide mobile office trailers, which are commonly used in construction staging areas, generally range in size from 160 sf to 720 sf. A typical 720-sf office trailer would consume approximately 22,456 kWh during the 22-month construction phase.

All construction equipment and operation thereof would be regulated per the CARB In-Use Off-Road Diesel Vehicle Regulation, which is intended to reduce emissions from in-use, off-road, heavy-duty diesel vehicles in California by imposing limits on idling, requiring all vehicles to be reported to CARB, restricting the addition of older vehicles into fleets, and requiring fleets to reduce emissions by retiring, replacing, or repowering older engines, or installing exhaust retrofits. The In-Use Off-Road Diesel Vehicle Regulation would subsequently help to improve fuel efficiency and reduce GHG emissions by requiring construction vehicles to become cleaner through the use of renewable energy resources. Technological innovations and more stringent standards are being researched, such as multi-function equipment, hybrid equipment, or other design changes, which could help to reduce demand on oil and emissions associated with construction.

¹³ FirstCarbon Solutions. *Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report Hanson Lane Residential Project. City of Brentwood, Contra Costa County, California.* March 15, 2022.

The CARB has prepared the 2017 Climate Change Scoping Plan Update (2017 Scoping Plan),¹⁴ which builds upon previous efforts to reduce GHG emissions and is designed to continue to shift the California economy away from dependence on fossil fuels. Appendix B of the 2017 Scoping Plan includes examples of local actions (municipal code changes, zoning changes, policy directions, and mitigation measures) that would support the State's climate goals. The examples provided include, but are not limited to, enforcing idling time restrictions for construction vehicles, utilizing existing grid power for electric energy rather than operating temporary gasoline/diesel-powered generators, and increasing use of electric and renewable fuel-powered construction equipment. The In-Use Off-Road Diesel Vehicle Regulation described above, with which the proposed project must comply, would be consistent with the intention of the 2017 Scoping Plan and the recommended actions included in Appendix B of the 2017 Scoping Plan.

Based on the above, the temporary increase in energy use occurring during construction of the proposed project would not result in a significant increase in peak or base demands or require additional capacity from local or regional energy supplies. In addition, the proposed project would be required to comply with all applicable regulations related to energy conservation and fuel efficiency, which would help to reduce the temporary increase in demand.

The proposed project would also be required to comply with CCR Title 13, Sections 2449(d)(3) and 2485, which limits idling from both on-road and off-road diesel-powered equipment. Thus, it is anticipated that construction of the proposed plan would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing energy use or increasing the use of renewable energy.

Operational Energy Use

Following implementation of the proposed project, PG&E would provide electricity to the project site. Energy use associated with operation of the residential subdivision would consist of uses such as indoor and outdoor lighting, household appliances and other electronics. However, electricity supplied to the project by PG&E would comply with the State's Renewable Portfolio Standard (RPS), which requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and to 60 percent by 2030. Thus, a portion of the energy that would be consumed by the roadway in the future would originate from renewable sources.

The operational phase of the proposed project would consume energy as part of building operations, landscape maintenance activities, and transportation activities. Building operations for the proposed project would involve energy consumption for multiple purposes including, but not limited to, building heating and cooling, refrigeration, lighting, and electronics. The Air Quality, Greenhouse Emissions, and Energy Analysis Report prepared for the project estimated that project operations would consume approximately 583,302 kWh of electricity and an estimated 3.43 million kilo-British Thermal Unit (kBtu) of natural gas on an annual basis. The proposed project would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the State's Title 24 energy efficiency standards. Title 24 standards include a broad set of energy conservation requirements that apply to the structural, mechanical, electrical, and plumbing systems in a building. For example, the Title 24

¹⁴ California Air Resources Board. *The 2017 Climate Change Scoping Plan Update*. November 2017.

Lighting Power Density requirements define the maximum wattage of lighting that can be used in a building based on its square footage. Title 24 standards, widely regarded as the most advanced energy efficiency standards, would help reduce the amount of energy required for lighting, water heating, and heating and air conditioning in buildings and promote energy conservation. With regard to landscaping and maintenance of equipment, AB 1346 requires the phasing-out of the sale of gas-powered leaf blowers, lawn mowers, and other small off-road engines by as early as 2024. Thus, landscaping activities and maintenance of equipment will become more energy efficient over time. Furthermore, the proposed project would be required to provide wiring that would allow installation of EV charging equipment in any private garages or carports.

The Brentwood General Plan also includes energy conservation initiatives designed to reduce energy demand through home weatherization programs, green building guidelines, and alternative energy policies that would reduce energy use through supporting appropriate renewable energy projects and encouraging energy recovery projects. Compliance with the aforementioned policies would ensure that building energy consumption would not result in the use of energy in a wasteful, inefficient, or unnecessary manner. In addition, the proposed project would include rooftop solar panels that would provide electricity for each single-family home and further reduce electricity consumption. Therefore, the operational impact related to building electricity and natural gas consumption would be less than significant.

With regard to transportation energy use, the project site is located adjacent to Lone Tree Way and Hanson Lane, which provide access to SR 4. SR 4 is approximately 2.8 miles west of the project site, and as a result, the proposed project would be in proximity to a regional route of travel. The existing transportation facilities in the area would provide future residents, visitors, and employees associated with the proposed project with access to public transportation, thus, further reducing fuel consumption demand. Therefore, operational-related transportation fuel consumption would not result in a significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources.

Conclusion

Based on the above, construction and operation of the proposed project would not result in wasteful, inefficient, or unnecessary consumption of energy resources or conflict with or obstruct a State or local plan for renewable energy or energy efficiency. Thus, a ***less-than-significant*** impact would occur.

VII. GEOLOGY AND SOILS.

Would the project:

| | 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: | | | | |
| 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 based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ii. Strong seismic ground shaking? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| iii. Seismic-related ground failure, including liquefaction? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| iv. Landslides? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Result in substantial soil erosion or the loss of topsoil? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Be located on expansive soil, as defined in Table 18-1B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion

The following discussions are based primarily on a Geotechnical Exploration Report prepared for the project site by ENGEO Incorporated (Appendix C).¹⁵ It should be noted that the Geotechnical Exploration Report was prepared in 2014, before development plans had been prepared for the project. However, on October 26, 2020, ENGEO Inc. issued a geotechnical update letter stating that previous recommendations provided in the report remain applicable¹⁶.

ai-ii. According to the City of Brentwood General Plan EIR, the City’s planning area does not contain any active or potentially active faults. The nearest active faults are the Greenville Fault and the Concord-Green Valley Fault, located approximately 17 miles and 20 miles from the project site, respectively. Known active or potentially active faults do not exist on the project site. In addition, the project site is not located within a State-designated Alquist-Priolo Fault Zone.¹⁷ Thus, the potential for fault rupture risk at the project site is relatively low.

An earthquake of moderate to high magnitude generated by the above faults could cause considerable ground shaking at the project site. However, the proposed project would be subject to all applicable regulations within the CBSC and Chapter 15.04 (Building Code) of the City’s Municipal Code, which provides standards to protect property and public

¹⁵ ENGEO Incorporated. *Geotechnical Exploration Hanson Ranch*. December 29, 2014.

¹⁶ ENGEO Incorporated. *Geotechnical Update Letter*. October 26, 2020.

¹⁷ California Geologic Survey. *Seismic Hazard Zone Report for the Brentwood 7.5-Minute Quadrangle, Contra Costa County, California*. 2018.

safety by regulating the design and construction of foundations, building frames, and other building elements. It is also noted that the site is relatively flat and landslides would not pose a hazard to on-site structures or future residents. However, a **potentially significant** impact would occur related to exposure of people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, strong seismic ground shaking, seismic-related ground failure, or landslides if the aforementioned regulations are not implemented.

Mitigation Measure(s)

Implementation of the following mitigation measure would ensure the above impact is reduced to a *less-than-significant* level.

- VII-1. *All project buildings shall be designed in conformance with the current edition of the California Building Code (CBC).*
- VII-2. *Prior to grading permit issuance, the applicant shall submit a final geotechnical evaluation of the project site that analyzes soil stability including soil expansion, and the potential for lateral spreading, subsidence, liquefaction or collapse. The report shall identify any on site soil and seismic hazards and provide design recommendations for onsite soil and seismic conditions. The geotechnical evaluation shall be reviewed and approved by the Director of Public Works/City Engineer, Chief Building Official, and a qualified Geotechnical Engineer to ensure that all geotechnical recommendations specified in the geotechnical report are properly incorporated and utilized in the project design in order to adhere to all geotechnical requirements contained in the California Building Code.*
- VII-3. *All grading and foundation plans for the development shall be designed by a Civil and Structural Engineer and reviewed and approved by the Director of Public Works/City Engineer, Chief Building Official, and a qualified Geotechnical Engineer prior to issuance of grading and building permits to ensure that all geotechnical recommendations specified in the geotechnical report are properly incorporated and utilized in the project design in order to adhere to all geotechnical requirements contained in the California Building Code.*

aiii,aiv,

c. Liquefaction

Liquefaction is a phenomenon in which saturated, cohesionless soils are subject to a temporary total loss of shear strength due to pore pressure build-up associated with seismic events. According to the California Geological Survey (CGS) the project site is located within a liquefaction zone. As part of the Geotechnical Exploration Report prepared for the project, a liquefaction analysis was prepared. The liquefaction potential of the site was evaluated and it was found that relatively discontinuous layers of silty sand and clean sand layers are potentially liquefiable. However, based on the thickness of the non-liquefiable surface soils and the discontinuous nature of the potentially liquefiable soil, the risk of surface disruption is low.

Landslides

Seismically-induced landslides are triggered by earthquake ground shaking. The risk of landslides is greatest in the late winter when groundwater levels are highest and hillside

colluvium is saturated. The Seismic Hazards Mapping Act (SHMA) of 1990 (PRC, Chapter 7.8, Section 2690-2699.6) directs the CGS to identify and map areas prone to earthquake-induced landslides. According to the CGS, the project site is not located within a Seismic Hazard Zone associated with earthquake-induced landslides.¹⁸ Additionally, the project site does not feature varying degrees of slope commonly associated with areas at risk for earthquake-induced landslides. Therefore, it is determined that landslides do not pose a risk to the proposed project.

Lateral Spreading

Lateral spreading is a phenomenon, commonly associated with liquefaction, in which a soil mass moves towards a free face, such as an excavation or road cut, or down a gentle slope. As previously discussed, the site contains layers of loose to medium-dense sands that have potential for liquefaction. In addition, the site is located adjacent to a free face along Marsh Creek. However, based on the encountered depth of groundwater and the depth of the liquefiable layers relative to the creek bottom, the potential for lateral spread is low.

Subsidence/Settlement

Differential settlement is defined as the vertical difference in settlement between adjacent foundation supports or across a horizontal distance of 30 feet, whichever is less. A majority of the estimated elastic settlement is expected to occur during construction as the foundation is loaded or fill/backfill is placed. The Geotechnical Exploration Report states that based on topographic and lithologic data, the risk of regional subsidence or uplift is considered low to negligible at the site.

However, the Geotechnical Exploration Report found that undocumented fill is located within the former alignment of Marsh Creek. Undocumented fills can undergo excessive settlement, especially under new fill or building loads. According to the report, additional areas of documented fill associated with the former residence and the storm drain alignment may be present. Should areas of undocumented fill be discovered during implementation of the proposed project, complete removal and compaction is recommended. Additionally, any loose surface soils shall be removed if greater than 12 inches in depth and replaced with engineered fill.

Settlement for the proposed project is expected to be negligible provided the recommendations presented in the Geotechnical Exploration Report are properly followed during design and construction of the project.

Conclusion

Based on the above, the proposed project would not expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving liquefaction or lateral spreading. However, in the absence of proper mitigation to ensure the recommendations in the Geotechnical Exploration Report are properly incorporated into project design, the proposed project could result in impacts related to settlement. Thus, a **potentially significant** impact could occur.

Mitigation Measure(s)

¹⁸ California Geological Survey. *Earthquake Zones of Required Investigation*. Available at: <https://maps.conservation.ca.gov/cgs/EQZApp/app/>. Accessed October 2022.

Implementation of the following mitigation measure would ensure the above impact is reduced to a *less-than-significant* level.

- VII-2. *All grading and foundation plans for the proposed project shall be designed by a Civil and Structural Engineer and reviewed and approved by the Director of Public Works/City Engineer, Chief Building Official, and a qualified Geotechnical Engineer prior to issuance of grading permits to ensure that all geotechnical recommendations specified in the geotechnical report are properly incorporated and utilized in the project design. The Geotechnical Exploration Report provides feasible measures including, but not limited to: removal and recompaction of areas with undocumented fill; specification of backfill materials and procedure; demolition and stripping procedures; and requirements for installation of foundations.*
- b. Issues related to erosion and degradation of water quality during construction are discussed in Section X, Hydrology and Water Quality, of this IS/MND, under question 'a'. As noted therein, a Storm Water Pollution Prevention Plan (SWPPP) for the site would be required. A SWPPP describes best management practices (BMPs) to control or minimize pollutants from entering stormwater and addresses both grading/erosion impacts and non-point source pollution impacts of the development project, including post-construction impacts. The City of Brentwood requires all development projects to use BMPs to treat runoff. Thus, the proposed project would not result in substantial soil erosion or the loss of topsoil. However, if BMPs are not implemented to treat runoff, a **potentially significant** impact would occur.
- VII-4. *Prior to grading permit issuance, the applicant shall submit a final grading plan to the Director of Public Works/City Engineer for review and approval. If the grading plan differs significantly from the proposed grading illustrated on the approved project plans, plans that are consistent with the new revised grading plan shall be provided for review and approval by the Director of Public Works/City Engineer.*
- VII-5. *Any applicant for a grading permit shall submit an erosion control plan to the Director of Public Works/City Engineer for review and approval. The plan shall identify protective measures to be taken during construction, supplemental measures to be taken during the rainy season, the sequenced timing of grading and construction, and subsequent revegetation and landscaping work to ensure water quality in creeks and tributaries in the General Plan Area is not degraded from its present level. All protective measures shall be shown on the grading plans and specify the entity responsible for completing and/or monitoring the measure and include the circumstances and/or timing for implementation.*
- VII-6. *Grading, soil disturbance, or compaction shall not occur during periods of rain or on ground that contains freestanding water. Soil that has been soaked and wetted by rain or any other cause shall not be compacted until completely drained and until the moisture content is within the limit approved by a Soils Engineer. Approval by a Soils Engineer shall be obtained prior to the continuance of grading operations. Confirmation of this approval shall be provided to the Public Works Department prior to commencement of grading.*

- d. Expansive soils shrink/swell when subjected to moisture fluctuations, which can cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Damage due to volume changes associated with expansive soils can be reduced by performing proper moisture conditioning and compaction of fill materials within selected ranges to reduce their swell potential, and using structurally reinforced “rigid” mats or post-tensioned mats designed to resist the deflections associated with soil expansion. According to the Geotechnical Exploration Report, a moderate shrink-swell potential exists in the soils underlying the site. Therefore, the proposed project could be located on expansive soil, as defined in Table 18-1B of the Uniform Building Code, and in the absence of proper mitigation to ensure the recommendations in the Geotechnical Exploration Report are properly incorporated into project design a **potentially significant** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would ensure the above potential impact is reduced to a *less-than-significant* level.

VII-7. Implement Mitigation Measure VII-2.

- e. The proposed project would connect to the City’s existing sewer infrastructure, and, thus, would not require the use of septic systems. Therefore, **no impact** would occur related to having 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.
- f. The City’s General Plan indicates that known paleontological resources do not exist within the City planning area. However, development allowed under the General Plan could result in the discovery and disturbance of previously unknown or undiscovered paleontological resources. Geologic formations, including the Upper Cretaceous marine sedimentary rocks and various Quaternary subunits, that have a moderate to high potential for paleontological resources, are present throughout many areas of the City. The City’s General Plan EIR concluded that with implementation of Action COS 6e, which requires all new development projects to comply with procedures upon discovery of unique paleontological resources, impacts related to disturbance of paleontological resources would be less than significant.

As noted in the City’s General Plan EIR, the majority of the City is underlain by Quaternary Marine/Alluvium, which contains mostly nonmarine unconsolidated alluvium, lake, playa, and terrace deposits. Such soil types are not considered unique geologic features and are common within the geographic area of the City. Furthermore, the City’s General Plan does not note the existence of any unique geologic features within the City. Consequently, implementation of the proposed project would not be anticipated to have the potential to result in direct or indirect destruction of unique geologic features.

Although the proposed project would not have the potential to result in the destruction of unique geologic features, previously unknown paleontological resources could exist within the project site. Thus, ground-disturbing activity, such as grading, trenching, or excavating associated with implementation of the proposed project, could have the potential to disturb or destroy such resources. Therefore, the proposed project could result in the direct or indirect destruction of a unique paleontological resource, and a **potentially significant** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

- VII-8. *Should construction or grading activities result in the discovery of unique paleontological resources, all work within 100 feet of the discovery shall cease. The Community Development Department shall be notified, and the resources shall be examined by a qualified archaeologist, paleontologist, or historian, at the contractor's expense, for the purpose of recording, protecting, or curating the discovery as appropriate. The archaeologist, paleontologist, or historian shall submit to the Community Development Department for review and approval a report of the findings and method of curation or protection of the resources. Work may only resume in the area of discovery when the preceding work has occurred. The language of this mitigation shall be included via notation on the project improvement plans.*

VIII. GREENHOUSE GAS EMISSIONS.

Would the project:

| | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gasses? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

a,b. Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Construction of the proposed project and off-site improvements would cumulatively contribute to increases of GHG emissions. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide (CO₂) and, to a lesser extent, other GHG pollutants, such as methane (CH₄) and nitrous oxide (N₂O) associated with area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, and the generation of solid waste. The primary source of GHG emissions for the project would be mobile source emissions. The common unit of measurement for GHG is expressed in terms of annual metric tons of CO₂ equivalents (MTCO₂e/yr).

The proposed project is located within the jurisdictional boundaries of BAAQMD. While updated CEQA Guidelines have not yet been released, on April 20, 2022, the BAAQMD Board of Directors held a public meeting and adopted proposed CEQA Thresholds for Evaluating the Significance of Climate Change Impacts from Land Use Projects and Plans.¹⁹ The updated GHG thresholds address more recent climate change legislation, including Senate Bill (SB) 32, and provide qualitative thresholds related to Buildings and Transportation.

Construction GHG emissions are a one-time release and are, therefore, not typically expected to generate a significant contribution to global climate change. Neither the City nor BAAQMD has an adopted threshold of significance for construction-related GHG emissions and does not require quantification. Nonetheless, the proposed project's construction GHG emissions, have been estimated by FirstCarbon Solutions as part of the Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report using CalEEMod, as discussed in Section III, Air Quality, of this IS/MND (see Appendix A). Based on the modeling results, construction of the proposed project and off-site improvements would

¹⁹ Bay Area Air Quality Management District. *CEQA Thresholds and Guidelines Update*. Available at: <https://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/updated-ceqa-guidelines>. Accessed June, 2022.

result in total unmitigated GHG emissions of 1,060 MTCO₂e over the entire construction period.²⁰

Potential impacts related to operational GHG emissions resulting from implementation of the proposed project and off-site improvements are considered in comparison with BAAQMD's adopted thresholds of significance below.

BAAQMD Thresholds of Significance

The BAAQMD's adopted thresholds of significance for GHG emissions are qualitative, and address recent climate change legislation, including SB 32. According to the new thresholds of significance, a project must either include specific project design elements (e.g., exclude use of natural gas, achieve a specific reduction in project-generated VMT below the regional average) or be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).²¹ The City of Brentwood has not prepared a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b). Therefore, according to the BAAQMD's new requirements, in order to find a less-than-significant GHG impact, the proposed project must include, at a minimum, the following project design elements:

1. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development);
2. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines;
3. The project will achieve a reduction in project-generated VMT below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted SB 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA; and
4. The project will achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.

In order to be consistent with the first criterion, the proposed project would be required to include all electric appliances and plumbing. The 2022 Building Energy Efficiency Standards requires that new homes be built electric-ready (i.e., homes will be required to have electric supply panels and circuitry to support all-electric appliances and heating). The project applicant has confirmed that the proposed project would be built in accordance with the aforementioned standards, and has anticipated that the project would not be designed to include natural gas. However, project specific plans are not available to ensure that the proposed project would be designed and constructed without natural gas infrastructure. Thus, the proposed project could conflict with the first criterion.

Regarding the second criterion, as discussed in Section VI, Energy, of this IS/MND, the proposed project would comply with all applicable federal, State, and local regulations regarding energy use during both project construction and project operations. In addition, the proposed project would include rooftop solar panels that would provide electricity for

²⁰ FirstCarbon Solutions. *Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report*. March 15, 2022.

²¹ Bay Area Air Quality Management District. *CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans*. April 2022.

each single-family home and further reduce electricity consumption. Therefore, as discussed therein, the proposed project would not result in any wasteful, inefficient, or unnecessary energy usage.

With respect to the third criterion, as discussed in Section XVII, Transportation, of this IS/MND, the City of Brentwood average home-based VMT per capita was calculated to be 29.6. Therefore, the impact threshold of 15 percent below the Citywide average home-based VMT per capita equates to 25.16. The project is projected to generate a VMT per capita of 21.26, which is below the aforementioned impact threshold. Therefore, the project would achieve a 15 percent reduction in project-generated VMT below the regional average consistent with the current version of the California Climate Change Scoping Plan.

With respect to the fourth criterion, the proposed project would be subject to the single-family residential standards set forth in the CALGreen Code. Pursuant to the 2022 CALGreen Code, single-family residential projects are required to install a listed raceway to accommodate a dedicated 208/240-volt branch circuit for each unit, which would be suitable for EV charging. Compliance with the aforementioned CalGreen Code requirement would be sufficient to comply with the Tier 2 CALGreen standards, as required by BAAQMD.

Conclusion

Based on the above, because project specific information is not available to ensure that the proposed project would be designed and constructed without natural gas infrastructure, the proposed project could be considered to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Therefore, a **potentially significant** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

- VIII-1 *Prior to building permit issuance, the project applicant shall submit improvement plans to the City of Brentwood Community Development Department for review and approval which indicate (via notation on the improvement plans) that the proposed project shall be designed such that the project is built all-electric, and natural gas infrastructure shall be prohibited on-site.*

IX. HAZARDS AND HAZARDOUS MATERIALS.

Would the project:

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| g. Expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion

a. Residential developments are not typically associated with the routine transport, use, disposal, or generation of substantial amounts of hazardous materials. On-site maintenance may involve the use of common household cleaning products, fertilizers, and herbicides, any of which could contain potentially hazardous chemicals; however, such products would be expected to be used in accordance with label instructions. Due to the regulations governing use of such products and the amount anticipated to be used on the site, routine use of such products would not represent a substantial risk to public health or the environment. Therefore, the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

Construction activities associated with implementation of the proposed project and off-site improvements would involve the use of heavy equipment, which would contain fuels and oils, and various other products such as concrete, paints, and adhesives. The project contractor is required to comply with all California Health and Safety Codes and local county ordinances regulating the handling, storage, and transportation of hazardous and toxic materials. Pursuant to California Health and Safety Code Section 25510(a), except as provided in subdivision (b),²² the handler or an employee, authorized representative, agent, or designee of a handler, shall, upon discovery, immediately report any release or threatened release of a hazardous material to the unified program agency (in the case of the proposed project, the Contra Costa County Environmental Health Division [CCCEHD])

²² Subdivision (a) does not apply to a person engaged in the transportation of a hazardous material on a highway that is subject to, and in compliance with, the requirements of Sections 2453 and 23112.5 of the Vehicle Code.

in accordance with the regulations adopted pursuant to Section 25510(a). The handler or an employee, authorized representative, agent, or designee of the handler shall provide all State, city, or county fire or public health or safety personnel and emergency response personnel with access to the handler's facilities. In the case of the proposed project, the contractors are required to notify the CCCEHD in the event of an accidental release of a hazardous material, who would then monitor the conditions and recommend appropriate remediation measures.

Based on the above, the proposed project would not create a significant hazard to the public or the environment through the routine handling, transport, use, or disposal of hazardous materials. Therefore, a **less-than-significant** impact would occur.

- b. The following discussion is based on a Phase I Environmental Site Assessment (ESA) which was prepared for the Hanson Lane project by ENGEO Incorporated (Appendix D).²³ Based on the Phase I ESA, the potential recognized environmental conditions (RECs) identified for the project site are discussed in further detail below. A REC indicates the presence or likely presence of any hazardous substances in, on, or at a property due to any release into the environment, under conditions indicative of a release to the environment, or under conditions that pose a material threat of a future release into the environment.

A historical records search was conducted as part of the Phase I ESA prepared for the proposed project. Historical USGS topographic maps, aerial photographs, and Sanborn Fire insurance maps show that the majority of the project site has been used for orchards and agricultural land since 1939. Different structures associated with the agricultural uses and residential structures were previously present on the site, although by 2016 structures did not remain on the site, and the orchard had been removed.

According to the Phase I ESA, a review of regulatory databases maintained by County, State, tribal, and federal agencies did not find documentation of hazardous materials violations or discharge on the project site and did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the project site. Documentation or physical evidence of soil, soil gas, or groundwater impairments associated with the use or past of the project site were not found. The Phase I ESA did not find evidence of RECs in connection with the project site.

However, according to the Phase I ESA, an environmental questionnaire completed in 2014 described a "redwood septic system" that had served a dwelling that was previously on the project site. A sanitary sewer manhole was observed on the central portion of the project site during site reconnaissance conducted for the Phase I ESA. Similarly, an environmental questionnaire completed in 2014 described an abandoned domestic well located on-site. During site reconnaissance conducted for the Phase I ESA, a possible well was observed in the southern portion of the project site. Therefore, a septic system and possible well associated with the former structures may be present on-site.

In addition, based on the review of historic aerial photographs as part of the Phase I ESA, the project site was previously used as agricultural land. As a result, the potential exists

²³ ENGEO Incorporated. *Hanson Lane, Brentwood, California, Phase I Environmental Site Assessment*. October 27, 2020.

that organochlorine and arsenic pesticide residues may be present within surficial soils. If such materials are present in on-site soils, a potential health hazard could occur during project construction.

Based on the above, potentially hazardous conditions could occur if pesticide residuals are present in on-site soils, or if an existing septic system and/or well is present on-site and is not removed in accordance with County and State regulations. Therefore, without mitigation, the proposed project could create a significant hazard to the public or the environment, and a **potentially significant** impact could occur.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

- IX-1. Prior to initiation of ground-disturbing activities, the project applicant shall complete testing of on-site soils for organochlorine pesticides (OCPs) and arsenic in accordance with U.S. Environmental Protection Agency (USEPA) Method 8081A. In the event that soil is determined to be hazardous by exceeding the USEPA Regional Screening Level for residential exposure scenarios, the soil shall be transported and disposed of at a Class I facility permitted by the California Department of Toxic Substances Control. Hazardous waste shall be transported to disposal by a licensed hazardous waste hauler under a uniform hazardous waste manifest. The results of soil sampling and analysis, as well as verification of proper remediation and disposal, if warranted, shall be submitted to the City's Community Development Department for review and approval.*
- IX-2. During ground-disturbing activities, if one or more wells and/or septic systems are identified on-site, the project applicant shall hire a licensed contractor to obtain the applicable abandonment permit from Contra Costa County Environmental Health Division (CCCEHD), and properly abandon the on-site wells and/or septic systems for review and approval by the CCCEHD and the City's Community Development Department.*
- c. The project site is not located within a quarter mile of any existing or proposed schools. The nearest school is the Marsh Creek Elementary School, located approximately 0.86-mile southwest of the site. Therefore, the proposed project would have **no impact** related to hazardous emissions or the handling of hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.
- d. The Cal-EPA has compiled a list of data resources that provide information regarding the facilities or sites identified as meeting the "Cortese List" requirements, pursuant to Government Code 65962.5. The components of the Cortese List include the Department of Toxic Substances Control (DTSC) Hazardous Waste and Substances Site List, the list of leaking underground storage tank (UST) sites from the SWRCB's GeoTracker database, the list of solid waste disposal sites identified by the SWRCB, and the list of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO) from the State Water Resources Control Board (SWRCB). The project site is not included on the DTSC Hazardous Waste and Substances Site List,²⁴ or the list of solid waste disposal

²⁴ Department of Toxic Substances Control. *Hazardous Waste and Substances Site List (Cortese)*. Available at: <https://www.envirostor.dtsc.ca.gov/public/>. Accessed September 2022.

sites.²⁵ In addition, the project site is not included on the list of leaking UST sites from the SWRCB's GeoTracker database, or the list of active CDO and CAO from the SWRCB. Thus, the proposed project would not create a significant hazard to the public or the environment, and a **less-than-significant** impact would occur.

- e. The nearest public airport to the site is Byron Airport, which is located approximately 9 miles southeast of the site. In addition, a private airfield (Funny Farm Airfield) is located approximately 2.5 miles east of the project site. As such, the project site is not located within two miles of any public airports, and does not fall within an airport land use plan area. Therefore, **no impact** would occur related to the project being located within an airport land use plan or within two miles of a public airport or public use airport, thereby resulting in a safety hazard or excessive noise for people residing or working in the project area.
- f. During construction of the proposed project and off-site improvements, all construction equipment would be staged on-site so as to prevent obstruction of local and regional travel routes in the City that could be used as evacuation routes during emergency events. The project would not substantially alter existing circulation systems in the surrounding area. As a result, the project would have a **less-than-significant** impact with respect to impairing the implementation of or physically interfering with an adopted emergency response plan or emergency evacuation plan.
- g. Issues related to wildfire hazards are discussed in Section XX, Wildfire, of this IS/MND. As noted therein, areas at risk for wildland fires are typically in or on the edge of undeveloped areas with large amounts of combustible vegetation. The project site is surrounded by existing development to the east and south, and is not located within an area where wildland fires typically occur. In addition, the proposed project would not include the construction of structures or infrastructure that would result in an increased hazard due to wildfires. According to the California Department of Forestry and Fire Protection (CAL FIRE), the project site is not located within a Very High Fire Hazard Severity Zone.²⁶ Therefore, the proposed project would not expose people or structures to the risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands, and a **less-than-significant** impact would occur.

²⁵ CalEPA. *Cortese List Data Resources*. Available at: <https://calepa.ca.gov/sitecleanup/corteselist/>. Accessed October 2022.

²⁶ California Department of Forestry and Fire Protection. *FHSZ Viewer*. Available at: <https://egis.fire.ca.gov/FHSZ/>. Accessed September 2022.

X. HYDROLOGY AND WATER QUALITY.

Would the project:

| | 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 ground water quality? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: | | | | |
| i. Result in substantial erosion or siltation on- or off-site; | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| iv. Impede or redirect flood flows? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion

- a. During the early stages of construction activities, topsoil would be exposed due to grading and excavation of the site. After grading and prior to overlaying the ground surface with impervious surfaces and structures, the potential exists for wind and water erosion to discharge sediment and/or urban pollutants into stormwater runoff, which could adversely affect water quality.

The SWRCB regulates stormwater discharges associated with construction activities where clearing, grading, or excavation results in a land disturbance of one or more acres. The proposed project would disturb more than one acre of land, and therefore, the proposed construction activities would be subject to applicable SWRCB regulations. Performance Standard NDCC-13 of the City’s National Pollutant Discharge Elimination System (NPDES) permit requires applicants to show proof of coverage under the State’s General Construction Permit prior to receipt of any construction permits. The State’s General Construction Permit requires a storm water pollution prevention plan (SWPPP) to be prepared for the site. A SWPPP describes BMPs to control or minimize pollutants from entering stormwater and must address both grading/erosion impacts and non-point source pollution impacts of the development project, including post-construction impacts. The City of Brentwood requires all development projects to use BMPs to treat runoff.

Following completion of the proposed residential development, the site would be largely covered with impervious surfaces and topsoil would no longer be exposed. As such, the potential for impacts to water quality would be reduced. In addition, as discussed in further

detail below, the proposed project would include the development of storm drainage utilities and on-site bioretention basins throughout the site in order to capture and treat stormwater from all on-site impervious surfaces prior to discharge. Additionally, a 15-foot flood control easement exists on the project site, running east to west.

Based on the above, the proposed project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. However, should a SWPPP not be prepared and the BMPs included therein not implemented, a **potentially significant** impact would occur.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

X-1. *Prior to issuance of grading permits, the contractor shall prepare a Storm Water Pollution Prevention Plan (SWPPP). The Developer shall file the Notice of Intent (NOI) and associated fee to the SWRCB. The SWPPP shall serve as the framework for identification, assignment, and implementation of BMPs. The contractor shall implement BMPs to reduce pollutants in stormwater discharges consistent with the requirements established in 15.52.60(F): Erosion and Sediment Control of the City's Municipal Code. The SWPPP shall be submitted to the Director of Public Works/City Engineer for review and approval and shall remain on the project site during all phases of construction. Following implementation of the SWPPP, the contractor shall subsequently demonstrate the SWPPP's effectiveness and provide for necessary and appropriate revisions, modifications, and improvements to reduce pollutants in stormwater discharges to the maximum extent practicable.*

X-2. *Prior to the completion of construction, the applicant shall prepare and submit, for the City's review, an acceptable Stormwater Control Operation and Maintenance Plan. In addition, prior to the sale, transfer, or permanent occupancy of the site, the applicant shall be responsible for paying for the long-term maintenance of treatment facilities, and executing a Stormwater Management Facilities Operation and Maintenance Agreement and Right of Entry in the form provided by the City of Brentwood. The applicant shall accept the responsibility for maintenance of stormwater management facilities until such responsibility is transferred to another entity.*

The applicant shall submit, with the application of building permits, a draft Stormwater Facilities and Maintenance Plan, including detailed maintenance requirements and a maintenance schedule for the review and approval by the Director of Public Works/City Engineer. Typical routine maintenance consists of the following:

- *Limit the use of fertilizers and/or pesticides. Mosquito larvicides shall be applied only when absolutely necessary.*
- *Replace and amend plants and soils as necessary to insure the planters are effective and attractive. Plants must remain healthy*

and trimmed if overgrown. Soils must be maintained to efficiently filter the storm water.

- *Visually inspect for ponding water to ensure that filtration is occurring.*
- *After all major storm events, remove bubble-up risers for obstructions and remove if necessary.*
- *Continue general landscape maintenance, including pruning and cleanup throughout the year.*
- *Irrigate throughout the dry season. Irrigation shall be provided with sufficient quantity and frequency to allow plants to thrive.*
- *Excavate, clean and or replace filter media (sand, gravel, topsoil) to insure adequate infiltration rate (annually or as needed).*

X-3. *Design of both the on-site drainage facilities shall meet with the approval of both the Director of Public Works/City Engineer and the Contra Costa County Flood Control and Water Conservation District prior to the issuance of grading permits.*

X-4. *Contra Costa County Flood Control and Water Conservation District drainage fees for the Drainage Area shall be paid prior to issuance of grading permits to the satisfaction of the Director of Public Works/City Engineer.*

X-5. *The Applicant/Developer shall ensure that the project site shall drain into a street, public drain, or approved private drain, in such a manner that un-drained depressions shall not occur. Satisfaction of this measure shall be subject to the approval of the Director of Public Works/City Engineer.*

X-6. *The construction plans shall indicate roof drains emptying into a pipe leading to the project bioswale areas for the review and approval of the Director of Public Works/City Engineer prior to the issuance of building permits.*

X-7. *The improvement plans shall indicate concentrated drainage flows not crossing sidewalks or driveways for the review and approval of the Director of Public Works/City Engineer prior to the issuance of grading permits.*

b,e. Water supplies for the project site are supplied by the City of Brentwood. According to the City's 2020 Urban Water Management Plan (UWMP), the City's current water supply consists of both surface water from the Delta and groundwater which is pumped from the East Contra Costa (ECC) Subbasin underlying the City through nine wells within the service area, five of which are active.²⁷ While the proposed 19.8-acre project would create new impervious surfaces within the site, the ECC Subbasin has a total surface area of approximately 168 square miles; therefore, the groundwater basin within which the project site is located would be recharged from many sources over a large area. Except for seasonal variations resulting from recharge and pumping, the General Plan EIR anticipates the City will pump a relatively stable amount of groundwater through the year 2045. Therefore, any new impervious surfaces associated with the project would not interfere substantially with groundwater recharge within the ECC Subbasin.

²⁷ City of Brentwood. 2020 Urban Water Management Plan. June 2021, revised December 2021.

Given that the proposed project is consistent with the site's current land use and zoning designations residential development of the project site has generally been anticipated by the City. As such, the project would not result in increased use of groundwater supplies beyond what has been anticipated by the City and accounted for in the UWMP. Additionally, the proposed project would be subject to the specific regulations on water use imposed by the UWMP.

Therefore, the proposed project would result in a **less-than-significant** impact with respect to substantially decreasing groundwater supplies or interfering substantially with groundwater recharge such that the project would impede sustainable groundwater management of the basin. In addition, the project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

- ci-iii. All municipalities within Contra Costa County are required to develop more restrictive surface water control standards for new development projects as part of the renewal of the Countywide NPDES permit. Known as the "C.3 Standards," new development and redevelopment projects that create or replace 10,000 or more square feet of impervious surface area must contain and treat stormwater runoff from the site. The proposed project would result in a total disturbance area of 19.8 acres (862,488 sf). Because the proposed project would create more than 10,000 sf of impervious surface area, the proposed project would be considered a C.3 regulated project and is required to include appropriate site design measures, source controls, and hydraulically-sized stormwater treatment measures. In addition, the project site is within Drainage Area 30c, and would be required to pay the applicable Contra Costa County Flood Control and Water Conservation District (CCCFCWCD) drainage fees.²⁸

The proposed project would include the connection to an existing outfall, which would drain the project site into Marsh Creek.

The on-site stormwater treatment facilities would incorporate the most recent Stormwater C.3 Guidebook and Contra Costa Clean Water Program requirements,²⁹ as well as all applicable City stormwater requirements. Stormwater draining off impervious surfaces such as roofs, parking areas, and drive aisles within the project site would be captured and routed to two bioretention basins located along the eastern boundary of the site. The bio-retention basins would include layers of cobbles, soil mix, gravel, and plants to provide for on-site treatment of runoff. Treated runoff would be routed to an existing outfall located east of the site, which would drain the treated stormwater runoff into Marsh Creek. The bio-retention basins would be sized to provide for adequate treatment and management of all stormwater runoff. Furthermore, because the proposed project is consistent with the site's current General Plan land use designations, the surrounding infrastructure has been designed and built to accommodate stormwater runoff associated with the proposed project, in addition to stormwater flows associated with existing development in the area.

Through the stormwater control measures proposed as part of the project, the proposed project would adequately manage the stormwater runoff from the project site. However, the proposed bio-retention basins would need to be maintained properly to ensure long-

²⁸ Contra Costa County Flood Control District. *Contra Costa County Formed Drainage Areas*. February 7, 2008.

²⁹ Contra Costa County Clean Water Program. *Stormwater C.3 Guidebook*. May 17, 2017.

term proper functioning of the on-site stormwater management system. A long-term maintenance plan is needed to ensure that all proposed stormwater treatment BMPs function properly. Should the proposed water quality treatment facilities not be maintained properly, a **potentially significant** impact could occur with respect to substantially altering the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion, siltation, or flooding on- or off-site, creating or contributing runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or providing substantial additional sources of polluted runoff.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

X-1. *Prior to the completion of construction activities, the applicant shall prepare and submit, for the City's review, an acceptable Stormwater Control Operation and Maintenance Plan. In addition, prior to the sale, transfer, or permanent occupancy of the site the applicant shall be responsible for paying for the long-term maintenance of treatment facilities, and executing a Stormwater Management Facilities Operation and Maintenance Agreement and Right of Entry in the form provided by the City of Brentwood. The applicant shall accept the responsibility for maintenance of stormwater management facilities until such responsibility is transferred to another entity.*

The applicant shall submit, with the application of building permits, a draft Stormwater Facilities and Maintenance Plan, including detailed maintenance requirements and a maintenance schedule for the review and approval by the Director of Public Works/City Engineer. Typical routine maintenance consists of the following:

- *Limit the use of fertilizers and/or pesticides. Mosquito larvicides shall be applied only when absolutely necessary.*
- *Replace and amend plants and soils as necessary to ensure the planters are effective and attractive. Plants must remain healthy and trimmed if overgrown. Soils must be maintained to efficiently filter the storm water.*
- *Visually inspect for ponding water to ensure that filtration is occurring.*
- *After all major storm events remove trash, inspect drain pipes and bubble-up risers for obstructions and remove if necessary.*
- *Continue general landscape maintenance, including pruning and cleanup throughout the year.*
- *Irrigate throughout the dry season. Irrigation shall be provided with sufficient quantity and frequency to allow plants to thrive.*
- *Excavate, clean and or replace filter media (sand, gravel, topsoil) to ensure adequate infiltration rate (annually or as needed).*

X-2. *Contra Costa County Flood Control & Water Conservation District drainage*

fees for the Drainage Areas shall be paid by the applicant prior to issuance of building permits.

- civ. According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) 06013C0354G, effective March 17, 2017, the majority of project site is located within Zone AE designated as a Special Flood Hazard Area (SFHA).³⁰ FEMA defines AE Zones as areas with a one percent annual chance of flooding and include a base flood elevation. Because the proposed project would include the construction of habitable structures within a SFHA, potential exists for a significant impact to flood flows to occur. Sections 15.07.300 and 15.07.320 of the Brentwood Municipal Code establish the City's requirements for the development of subdivisions within a SFHA, including, but not limited to, requirements mandating that structures are protected against flood damage; are adequately anchored to prevent flotation, collapse, or movement from hydrodynamic or hydrostatic loads; use construction materials and utility equipment that are resistant to flood damage; and use construction methods and practices that minimize flood damage. Additionally, for new residential development within Zone AE, the structure must be elevated to or above the depth number specified on the FEMA FIRM.

As part of complying with the regulations set forth by the Brentwood Municipal Code Sections 15.07.300 and 15.07.320, the proposed project would be required to conform with FEMA Technical Bulletin 2-08 (Technical Bulletin 2-08 replaces Technical Bulletin 2-93), which establishes requirements for the use of flood damage-resistant materials for buildings located within a SFHA.

Based on the above, through compliance with applicable municipal code requirements, potential impacts associated with the SFHA would not occur; however, should the proposed project not adhere to the provisions set forth therein, the project could result in significant impacts to flood flows. Therefore, impacts related to impeding or redirecting flood flows could be **potentially significant**.

Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above potential impact to a *less-than-significant* level.

- X-3. *Prior to the issuance of grading permits, the project applicant shall ensure that the final improvements plans prepared for the proposed project show the subdivisions compliance with applicable standards set forth in Brentwood Municipal Code Sections 15.07.300 and 15.07.320 regarding project construction and design. The final improvement plans compliance with the aforementioned Municipal Code requirements shall be submitted for review and approval to the City Engineer.*
- D. Although a majority of the proposed project is located within a flood hazard area, the proposed project would be subject to Municipal Code requirements, and compliance with Mitigation Measure X-3 would ensure the project implements the requirements established in the Brentwood Municipal Code Chapter 15.07, which serves to mitigate flooding impacts. Additionally, the proposed project would include a 15-foot flood control easement running west to east across the site.

³⁰ Federal Emergency Management Agency. *Flood Insurance Rate Map 06013C0354G*. Effective March 21, 2017.

Tsunamis are defined as sea waves created by undersea fault movement. A tsunami poses little danger away from shorelines; however, when it reaches the shoreline, a high swell of water breaks and washes inland with great force. Waves may reach 50 feet in height on unprotected coasts. Historic records of the Bay Area used by one study indicate that nineteen tsunamis were recorded in San Francisco Bay during the period of 1868-1968. Maximum wave height recorded at the Golden Gate tide gauge (where wave heights peak) was 7.4 feet. The available data indicate a standard decrease of original wave height from the Golden Gate to about half original wave height on the shoreline near Richmond, and to nil at the head of the Carquinez Strait. As Brentwood is several miles inland from the Carquinez Strait, the project site is not exposed to flooding risks from tsunamis and adverse impacts would not result.

A seiche is a long-wavelength, large-scale wave action set up in a closed body of water such as a lake or reservoir, whose destructive capacity is not as great as that of tsunamis. Seiches are known to have occurred during earthquakes, but none have been recorded in the Bay Area. In addition, the project is not located near a closed body of water. Therefore, the proposed project is not anticipated to be impacted by seiches in the future.

Based on the above, the proposed project would not pose a risk related to the release of pollutants due to project inundation due to flooding, tsunami, or seiche, and a **less-than-significant** impact would occur.

XI. LAND USE AND PLANNING.

Would the project:

| | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|--|--------------------------------|--|------------------------------|--------------------------|
| a. Physically divide an established community? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |

Discussion

- a. A project risks dividing an established community if the project would introduce infrastructure or alter land use so as to change the land use conditions in the surrounding community, or isolate an existing land use. Surrounding existing uses include residential development to the south, west, and north, and Marsh Creek to the east, with Brentwood Solid Waste Operations located further east, across Marsh Creek. The proposed project would be compatible with the existing residential uses in the project area. Moreover, the project site is currently undeveloped and the project would not physically divide an established community. In addition, the proposed project is consistent with the project site’s General Plan land use and zoning designations. As such, buildout of the project site with residential uses has generally been anticipated by the City. Therefore, the proposed project would have a **no impact**.

- b. As discussed throughout this IS/MND, the proposed project would not conflict with any land use plan, policy or regulations adopted for the purpose of avoiding or mitigating an environmental effect because development of the project site would comply with all standards set in the City of Brentwood General Plan and General Plan EIR, as well as the City’s noise standards, applicable SWRCB regulations related to stormwater, and ECCCHCP/NCCP standards. The R-LD land use designation is predominately for single-family detached housing with a density of 1.1 to 5.0 du/ac. The proposed project includes the developed of 92 detached single-family residential units over 19.8 acres, resulting in a density of 4.65 du/ac. In addition, as discussed throughout this IS/MND, the proposed project would not result in any significant environmental effects that cannot be mitigated to a less-than-significant level by the mitigation measures provided herein. The proposed project would not change the land uses surrounding the project site, nor would the proposed project conflict with the purposes of the land use and zoning designations of the project area. Therefore, the proposed project would not conflict with any with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigation an environmental effect, and a **less-than-significant** impact would occur.

XII. MINERAL RESOURCES.

Would the project:

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ✘ |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ✘ |

Discussion

a,b. According to the City's General Plan EIR, within the City limits, documented mineral resources include sand, gravel, coal, oil, and gas.³¹ Sediments throughout most of the City consist of young alluvial deposits. Historically, large amounts of sand were mined from the dune sands of the northern portion of the City; however, competition from sand and gravel pits in the Tracy and Livermore areas caused a gradual decline in production. As of January 1, 2013, three aggregate mines exist within Contra Costa County: the Byron Plant, Clayton Quarry, and Clayton Mine. In addition, Figure 3.6-6 in the 2014 Brentwood General Plan Update EIR does not show any existing active oil or gas wells on the project site. None of the three mines are located within the City of Brentwood planning area, and, thus, would not be adversely affected by the proposed project. Therefore, **no impact** to mineral resources would occur as a result of development of the project.

³¹ City of Brentwood. 2014 Brentwood General Plan Draft Environmental Impact Report. April 2014.

XIII. NOISE.

Would the project result in:

| | 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? | <input type="checkbox"/> | ✘ | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Generation of excessive groundborne vibration or groundborne noise levels? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ✘ |

Discussion

a. The following discussion is based primarily on information from a Noise Impact Analysis Report prepared for the proposed project by FirstCarbon Solutions (Appendix E).³² The following sections present information regarding sensitive noise receptors in proximity to the project site, the existing noise environment, and the potential for the proposed project to result in impacts during project construction and operation. The following terms are referenced in the sections below:

- Decibel (dB): A unit of sound energy intensity. An A-weighted decibel (dBA) is a decibel corrected for the variation in frequency response to the typical human ear at commonly encountered noise levels. All references to decibels (dB) in this report will be A-weighted unless noted otherwise.
- Day-Night Average Level (L_{dn}): The average sound level over a 24-hour day, with a +10 decibel weighing applied to noise occurring during nighttime (10:00 PM to 7:00 AM) hours.
- Equivalent Sound Level (L_{eq}): The average sound level over a given time-period.
- Maximum Sound Level (L_{max}): The maximum sound level over a given time-period.

Sensitive Noise Receptors

Some land uses are considered more sensitive to noise than others, and, thus, are referred to as sensitive noise receptors. Land uses often associated with sensitive noise receptors generally include residences, schools, libraries, hospitals, and passive recreational areas. Noise sensitive land uses are typically given special attention in order to achieve protection from excessive noise. In the vicinity of the project site, noise sensitive receptors include the single-family residences located to the north, west, and south, with the nearest existing residences being located approximately 39 feet north of the site.

Existing Noise Environment

The ambient noise environment in the project vicinity is primarily defined by garbage truck and truck parking lot noise from the adjacent Brentwood Solid Waste Operations facility, and traffic on local roadways, primarily from traffic on Hanson Lane and Lone Tree Way. FirstCarbon Solutions performed noise monitoring to record the ambient noise

³² FirstCarbon Solutions. *Noise Impact Analysis Report Hanson Lane Residential Project City of Brentwood, Contra Costa County, California*. March 1, 2022.

environment at the project site. Table 7 below provides a summary of the noise measurement results.

| Site Location | Location Description | dBA, L_{eq} | Primary Noise Sources |
|----------------------|---|----------------------------|---|
| ST-1 | Middle of project site, approximately level with Bonita Way but about 300 feet to the nearest residence | 42.8 | Vehicle traffic and parking lot noise from solid waste facility |
| ST-2 | Eastern edge of the property, about 450 feet northeast of Hanson Lan and adjacent to Marsh Creek | 44.4 | Vehicle traffic and parking lot noise from solid waste facility |
| ST-3 | Northeast corner of the property, adjacent to Marsh Creek and across from Solid Waste Operations parking area | 45.0 | Vehicle traffic and parking lot noise from solid waste facility |

Source: FirstCarbon Solutions, 2022.

Standards of Significance

Both the City’s Municipal Code and General Plan include regulations related to the generation of noise. With regard to temporary construction noise, the City restricts grading, site-improvement, and heavy construction equipment activities to the daytime hours between 7:00 AM and 3:30 PM Monday through Friday or until 5:30 PM with the express written approval of the City Engineer or designee. Work shall not be performed on Saturday or Sunday or City holidays, except that such work may be performed on Saturday between 8:00 AM and 5:00 PM with the express written approval of the City Engineer or designee. Furthermore, Policy N 1-15 of the Noise Element requires construction activities to comply with standard best practices as outlined in Action N 1E.

The Noise Element of the City’s General Plan establishes a land use compatibility criterion of 60 dB L_{dn} or less within outdoor activity areas of residential land uses impacted by transportation noise sources (e.g. traffic noise). General Plan Policy N 1-2 requires that new development and infrastructure projects be consistent with the Land Use Compatibility for Community Noise Environments standards (reproduced in Table 8 below) to ensure acceptable noise levels for existing and future development. Furthermore, General Plan Policy N1-13 requires stationary (non-transportation) noise sources to be below 55 L_{eq} during daytime hours, and 45 L_{eq} during nighttime hours at residential land uses.

In addition to the noise level standards described above, the City also provides the following criteria to determine the significance of transportation noise impacts:

- Where existing traffic noise levels are less than 60 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a 5.0 dB L_{dn} increase in roadway noise levels would be considered significant;

- Where existing traffic noise levels range between 60 and 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a 3.0 dB L_{dn} increase in roadway noise levels would be considered significant; and
- Where existing traffic noise levels are greater than 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a 1.5 dB L_{dn} increase in roadway noise levels would be considered significant.

| Land Use | Normally Acceptable | Conditionally Acceptable | Clearly Unacceptable |
|--|----------------------------|---------------------------------|-----------------------------|
| Single-Family Residential | ≤60 | 60-75 | >75 |
| Multi-Family Residential, Hotels, and Motels | ≤65 | 65-75 | >75 |
| Outdoor Sports and Recreation, Neighborhood Parks and Playgrounds | ≤65 | 65-80 | >80 |
| Schools, Libraries, Museums, Hospitals, Personal Care, Meeting Halls, Churches | ≤65 | 65-75 | >75 |
| Office Buildings, Business Commercial, and Professional | ≤67 | 70-80 | >77 |
| Industrial | ≤70 | 70-80 | >80 |

Source: City of Brentwood General Plan (Table N-1), July 2014.

Impact Analysis

The following sections provide an analysis of potential noise impacts associated with construction and operation of the proposed project.

Construction Noise

During construction of the proposed project and off-site improvements, heavy-duty equipment would be used for grading, excavation, paving, and building construction, which would result in temporary noise level increases while in operation. Noise levels would vary depending on the type of equipment used, how the equipment is operated, and how well the equipment is maintained. In addition, noise exposure at any single point outside the project site would vary depending on the proximity of construction activities to that point. Standard construction equipment, such as graders, backhoes, loaders, and haul trucks would be used on-site.

Table 9 shows maximum noise levels associated with typical construction equipment. Based on the table, activities involved in typical construction would generate maximum noise levels up to 85 dB at a distance of 50 feet. The closest noise-sensitive receptor to the proposed project site would be located approximately 39 feet north of the acoustic center of construction activity, where multiple pieces of heavy construction equipment would potentially operate at the project site. At a distance of 39 feet, worst-case construction noise levels could range up to approximately 85 dBA maximum noise level (L_{max}) intermittently and could have an hourly average of up to 81 dBA equivalent continuous sound level (L_{eq}) at the façade of the nearest single-family residential home.

| Type of Equipment | Maximum Level, dB at 50 feet |
|-------------------|------------------------------|
| Backhoe | 78 |
| Compactor | 83 |
| Compressor (air) | 78 |
| Dozer | 82 |
| Dump Truck | 76 |
| Excavator | 81 |
| Generator | 81 |
| Pneumatic Tools | 85 |

Source: Federal Highway Administration, Roadway Construction Noise Model User's Guide, January 2006.

Nonetheless, pursuant to Section 9.32.050 of the Brentwood Municipal Code, noise generating construction activities, including truck traffic coming to and from the construction site, are conditionally exempt from the Noise Ordinance during certain hours. Specifically, such activities are limited to the hours of 7:00 AM and 3:30 PM on weekdays, or until 5:30 PM with the express written approval of the city engineer or designee. No such work shall be performed on Saturday or Sunday or city holidays, except that such work may be performed on Saturday between 8:00 AM and 5:00 PM with the express written approval of the city engineer or designee. Without compliance with the aforementioned regulations, a **potentially significant** impact may occur.

Project Operational Noise

Operations associated with the proposed development would generate noise primarily associated with vehicle traffic along the local roadways as well as stationary sources at the project site. Such noise sources are discussed in the sections below.

Traffic Noise

As discussed above, the City considers that a significant impact would occur where existing traffic noise levels are less than 60 dBA L_{dn} at the outdoor activity areas of noise-sensitive uses and project-related traffic would result in a 5.0 dBA increase in the roadway noise levels. Where existing traffic noise levels range between 60 dBA and 65 dBA L_{dn} at the outdoor activity areas of noise-sensitive uses, a 3.0 dBA increase in roadway noise levels would be considered significant. Finally, where existing traffic noise levels are greater than 65 dBA L_{dn} at the outdoor activity areas of noise-sensitive uses, a 1.5 dBA increase in roadway noise levels would be considered significant.

According to the Noise Impact Analysis Report prepared for the project, the highest traffic noise increase with implementation of the project would occur along Lone Tree Way, east of Brentwood Boulevard, under existing plus project conditions.³³ Traffic noise levels without the project are estimated to range up to 55.2 dBA L_{dn} as measured 50 feet from the centerline of the outermost travel lane along the roadway segment. Because the existing traffic noise levels are less than 60 dBA L_{dn} along this road segment, a 5.0 dBA increase would be considered a significant increase. The Noise Impact Analysis determined traffic generated from the project along the roadway segment would result in up to a 2.5 dBA increase in traffic noise levels. Thus, the increase would be less than significant.

³³ FirstCarbon Solutions. *Noise Impact Analysis Report Hanson Lane Residential Project*. March 1, 2022.

All other modeled roadway segments would experience less than a 1.0 dBA increase in traffic noise levels compared to current traffic noise levels without the project. Therefore, project related traffic would not result in a substantial permanent increase in noise levels, and the impact would be less than significant.

Stationary On-Site Noise Sources

The primary new stationary noise source associated with implementation of the project would be new mechanical ventilation systems associated with the proposed residential uses. Proposed mechanical ventilation systems could be located as close as approximately 30 feet from the nearest off-site receptors. At a distance of 30 feet, noise generated by proposed mechanical ventilation equipment would attenuate to 45 dBA L_{eq} . These noise levels would represent the reasonable worst-case scenario noise levels as it assumes the operation of the equipment running at full power for an hour. However, due to cooler temperatures at night, such equipment would typically be expected to operate at full power for less than 30 minutes within any hour. As such, the expected reasonable worst case nighttime operational noise levels would attenuate to 42 dBA L_{eq} , as measured at the nearest off-site receptors. Thus, noise levels from on-site mechanical equipment would be below the City's daytime 55 dBA L_{eq} standard and nighttime 45 dBA L_{eq} standard, and the proposed project would not result in a substantial permanent increase in noise levels in excess of established standards.

Noise Impacts at On-Site Receptors

Impacts of the environment on a project (as opposed to impacts of a project on the environment) are beyond the scope of required CEQA review. "[T]he purpose of an EIR is to identify the significant effects of a project on the environment, not the significant effects of the environment on the project." (*Ballona Wetlands Land Trust v. City of Los Angeles*, (2011) 201 Cal.App.4th 455, 473 (*Ballona*)). Nonetheless, the following section regarding off-site transportation noise effects on on-site future residents is provided for informational purposes.

Exterior Traffic Noise Impacts

The City considers environments with ambient noise levels of up to 60 dBA DNL to be "normally acceptable" for new residential land use developments. As previously discussed, the dominant noise source on the project site is garbage truck and truck noise from the adjacent Brentwood Solid Waste Operations facility and traffic on Hanson Lane and Lone Tree Way, to the south and north, respectively. As shown in Table 7, the average midday peak noise hour noise levels at the project site range from 42.8 dBA to 45.0 dBA L_{eq} , which are within the City's "normally acceptable" range for new residential land use developments.

Using daily traffic volumes for the project provided by TJKM Transportation Consultants, and applied to the FHWA highway traffic noise prediction model (FHWA RD-77-108), FirstCarbon Solutions evaluated future traffic noise conditions in the vicinity of the project site. The resultant noise levels were weighed and summed over a 24-hour period in order to determine the L_{dn} values in order to determine compliance with the City's noise standards. The modeling results determined that traffic noise levels along the modeled roadway segment of Lone Tree Way and Hanson Lane, adjacent to the project site, would range up to 53.6 dBA L_{dn} under Cumulative Plus Project traffic conditions as measured at 50 feet from the centerline of the outermost travel lane, which are within the City's normally

acceptable land use compatibility threshold of below 60 dBA L_{dn} for new residential development.

Interior Traffic Noise Impacts

According to General Plan Policy N-1.14, interior noise levels for all residential uses must not exceed 45 dBA DNL. Modern building construction methods typically yield an exterior-to-interior noise level reduction of 25 dBA. Therefore, where exterior noise levels are 60 dBA L_{dn} , or less, additional interior noise control measures are not typically required. For the proposed project, exterior noise levels are predicted to be less than 60 dBA L_{dn} , which would result in interior noise levels of less than 35 dBA L_{dn} for the proposed project.

Conclusion

As described above, the proposed project would not result in the 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. However, should the project not comply with the noise regulations discussed above, construction activities associated with project implementation could result in a **potentially significant** impact.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

XIII-1. Construction activities shall be limited to 7:00 AM to 6:00 PM Monday-Friday and 8:00 AM to 5:00 PM on Saturday. Construction shall be prohibited on Sundays and City holidays. These criteria shall be included in the grading plan submitted by the applicant/developer for review and approval of the Director of Public Works/Engineering prior to issuance of grading permits. Exceptions to allow expanded construction activities shall be reviewed on a case-by-case basis as determined by the Chief Building Official and/or City Engineer, and shall not be allowed on any date or time that would violate the City's applicable noise standards.

XIII-2 The project contractor shall ensure that the following construction noise BMPs are met on-site during all phases of construction:

- All equipment driven by internal combustion engines shall be equipped with mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features in good operating condition that meet or exceed original factory specifications. Mobile or fixed "package" equipment (e.g., arc welders, air compressors) shall be equipped with shrouds and noise-control features that are readily available for that type of equipment.*
- All mobile or fixed noise-producing equipment used on the project site that are regulated for noise output by a federal, state, or local agency shall comply with such regulations while in the course of project activity.*
- The construction contractor shall utilize "quiet" models of air compressors and other stationary noise sources where technology exists.*
- At all times during project grading and construction, stationary noise-generating equipment shall be located as far as practicable from*

sensitive receptors and placed so that emitted noise is directed away from residences.

- *Unnecessary idling of internal combustion engines shall be prohibited.*
- *Construction staging areas shall be established at locations that would create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction activities, to the extent feasible.*
- *Construction site and access road speed limits shall be established and enforced during the construction period.*
- *The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only.*
- *Neighbors located adjacent to the construction site shall be notified of the construction schedule in writing.*
- *The construction contractor shall designate a “noise disturbance coordinator” who would be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall be responsible for determining the cause of the noise complaint (e.g., starting too early, poor muffler, etc.) and instituting reasonable measures as warranted to correct the problem. A telephone number for the disturbance coordinator shall be conspicuously posted at the construction site.*

Construction noise BMPs shall be included in the grading plan submitted by the developer for review and approval by the Director of Public Works/Engineering prior to grading permit issuance.

- b. Similar to noise, vibration involves a source, a transmission path, and a receiver. However, noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person’s perception of the vibration depends on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration is measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration in terms of peak particle velocities (PPV) in inches per second (in/sec). Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of PPV. Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. Table 10, which was developed by the California Department of Transportation (Caltrans), shows the vibration levels that would normally be required to result in damage to structures.

As shown in the table, the threshold for architectural damage to structures is 0.20 in/sec PPV and continuous vibrations of 0.10 in/sec PPV, or greater, would likely cause annoyance to sensitive receptors.

The proposed project would not involve any uses or operations that would generate substantial groundborne vibration. The primary vibration-generating activities associated with the proposed project would occur during grading, placement of underground utilities, and construction of the proposed residences and off-site improvements. Of the variety of

equipment used during construction, small vibratory rollers that are anticipated to be used in the construction of the internal streets of the project would produce the greatest groundborne vibration levels. Graders produce groundborne vibration levels ranging up to 0.101 in/sec PPV at 25 feet from the operating equipment.

The nearest off-site structure to areas where small vibratory rollers would operate is the shed building located adjacent to the northwest corner of the project site, south of Lone Tree Way. This structure would be located approximately 25 feet from the nearest construction footprint where small vibratory rollers would potentially operate. At this distance, groundborne vibration levels could range up to 0.101 in/sec PPV from operation of a small vibratory roller, which is well below the FTA’s Construction Vibration Impact Criteria of 0.2 in/sec PPV for this type of structure, a building of nonengineered timber construction.

| Table 10 | | | |
|--|----------------|---|--|
| Effects of Vibration on People and Buildings | | | |
| PPV | | Human Reaction | Effect on Buildings |
| mm/sec | in/sec | | |
| 0.15 to 0.30 | 0.006 to 0.019 | Threshold of perception; possibility of intrusion | Vibrations unlikely to cause damage of any type |
| 2.0 | 0.08 | Vibrations readily perceptible | Recommended upper level of the vibration to which ruins and ancient monuments should be subjected |
| 2.5 | 0.10 | Level at which continuous vibrations begin to annoy people | Virtually no risk of “architectural” damage to normal buildings |
| 5.0 | 0.20 | Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations) | Threshold at which there is a risk of “architectural” damage to normal dwelling – houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize “architectural” damage |
| 10 to 15 | 0.4 to 0.6 | Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges | Vibrations at a greater level than normally expected from traffic, but would cause “architectural” damage and possibly minor structural damage |
| Source: Caltrans. Transportation Related Earthborne Vibrations. TAV-02-01-R9601. February 20, 2002. | | | |

Therefore, project construction activities would not generate groundborne vibration levels in excess of the FTA’s criteria, and impacts would be considered less than significant as measured at the nearest receiving structures in the project vicinity. Project construction-related groundborne vibration impacts would be less than significant.

Based on the above, the proposed project would not expose people to or generate excessive groundborne vibration or groundborne noise levels, and a **less-than-significant** impact would occur.

- c. The nearest public airport to the site is Byron Airport, which is located approximately 10 miles south of the site. In addition, a private airfield (Funny Farm Airfield) is located approximately 2.5 miles east of the project site. The project site is not covered by an

existing airport land use plan. Given that the project site is not located within two miles of a public or private airport, the proposed project would not expose people residing or working in the project area to excessive noise levels associated with airports. Thus, ***no impact*** would occur.

XIV. POPULATION AND HOUSING.

Would the project:

| | 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 (e.g., through projects in an undeveloped area or extension of major infrastructure)? | <input type="checkbox"/> | <input type="checkbox"/> | ✘ | <input type="checkbox"/> |
| b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ✘ |

Discussion

- a. Pursuant to the site’s General Plan land use designation of R-LD, the development of residential uses on the project site has been anticipated by the City. The proposed project would develop 89 residential units on 19.8 acres, resulting in a density of 4.5 du/ac. This is consistent with the zoning for the project site (PD-71), which identifies, as a permitted use, the development of single-family dwellings not exceeding a density of 5.0 du/ac.³⁴ It is likewise consistent with the General Plan permitted density range of 1.1 to 5.0 du/ac for Low-Density Residential. The City’s General Plan assumes 3.22 persons per household in new, detached single-family residential units.³⁵ Therefore, the proposed project could be expected to house approximately 287 residents (89 units x 3.22 persons per household = 286.6).

Population growth itself does not constitute an environmental impact; rather, increased demands on the physical environment resulting from increases in population are considered environmental impacts. For example, increased demands on City services could require system upgrades, the construction of which could have environmental impacts. Physical environmental effects associated with development of the proposed project are evaluated throughout this IS/MND. As discussed in Section XV, Public Services, of this IS/MND, the project site is located in an urban area and is surrounded by existing development. Therefore, construction of new or expanded public services facilities would not be necessary to serve the proposed project. The proposed project would include construction of new off-site utility infrastructure in the form of upsizing the water line along Lone Tree Way and construction of a new sewer line under Marsh Creek. However, as discussed throughout this IS/MND, the off-site improvements would not result in significant impacts.

While the proposed project would result in population growth, such growth could be accommodated by existing public services and infrastructure and would not result in significant adverse environmental effects. In addition, given that the proposed project is consistent with the site’s current General Plan land use and zoning designations, population growth associated with the proposed project would not be unplanned. Thus, a **less-than-significant** impact would occur related to inducing substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure).

- b. The proposed project would not result in the destruction of any permanent or temporary residences because the project site is currently vacant and undeveloped. As such, the

³⁴ Brentwood Municipal Code Section 17.521.002.A.

³⁵ City of Brentwood. 2014 Brentwood General Plan Draft Environmental Impact Report, page 3.10-32. April 2014.

proposed project would not displace a substantial number of existing housing or people and would not necessitate the construction of replacement housing elsewhere. Therefore, ***no impact*** would occur.

XV. PUBLIC SERVICES.

Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

| | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|-----------------------------|--------------------------------|--|------------------------------|--------------------------|
| a. Fire protection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Police protection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Schools? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Parks? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Other Public Facilities? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion

a-c,e. The Contra Costa County Fire Protection District (CCCYPD) provides fire protection services to the City. The CCCYPD operates out of 36 fire stations located throughout the jurisdictional area.³⁶ The project site is located approximately 2.5-miles from the nearest fire station, located at 530 O’Hara Avenue. The proposed project would adhere to Chapter 15.06, the Fire Code, of the City’s Municipal Code, which requires the proposed project to adhere to all fire protection codes established by the CCCYPD, which would reduce the risk of fire at the project site, and, thus, reduce potential for the project to increase demand for fire protection services. In addition, as prescribed in Section 17.635.030 of the City of Brentwood Municipal Code, the proposed project would be required to annex into a community facilities district (CFD) that imposes a special tax for emergency medical and fire protection services. Participation in such CFD would help avoid impacts related to additional demand for emergency medical and fire protection services resulting from buildout of the proposed project. The proposed project would provide emergency vehicle access for the CCCYPD and police to the site through an EVA parcel located at the terminus of Bonita Way.

The proposed project would be serviced by the Brentwood Police Department, located at 9100 Brentwood Boulevard. The General Plan includes a goal to maintain a ratio of 1.5 to 2.5 sworn officers per 1,000 residents.³⁷ As of 2021, the Brentwood Police Department employed 72 sworn officers, meaning the City has a ratio of approximately 1.11 sworn officers per 1,000 residents³⁸. Because the proposed project would result in a population increase of approximately 287 residents, the proposed project has the potential to reduce the City’s existing ratio to 1.10 sworn officers per 1,000 residents. However, the change from 1.11 to 1.10 sworn officers per 1,000 residents is not considered substantial, and the proposed project would not warrant the construction of new police facilities. Furthermore, compliance with Section 17.636.030 of the City’s Municipal Code would require the proposed project to annex into one or more City CFD’s that impose a special tax for municipal services. Project participation in such City CFD’s would help avoid impacts to police protection and public safety services.

³⁶ Contra Costa County Fire Protection District. *Station Address*. Available at: <https://cccypd.org/station-address/>. Accessed October 2022.

³⁷ City of Brentwood. *General Plan Update* [pg. 3-5]. July, 2014.

³⁸ Brentwood Police Department. *2021 PD Performance Report*. Available at: <https://www.brentwoodca.gov/home/showpublisheddocument/4840/637835438572570000>. Accessed October 2022.

The project site is located within the Brentwood Union School District and Liberty Union High School District. Development of the proposed project would generate additional students in the area. However, the developer is required to pay development impact fees to help pay for public services that include public schools. Thus, any increased demand for educational facilities resulting from the proposed project would be mitigated through payment of such fees. In addition, Proposition 1A/SB 50 prohibits local agencies from using the inadequacy of school facilities as a basis for denying or conditioning approvals of any “legislative or adjudicative act involving the planning, use, or development of real property.” (Government Code § 65996(b).) Satisfaction of the Proposition 1A/SB 50 statutory requirements by a developer is deemed to be “full and complete mitigation.” Therefore, according to SB 50, the payment of the necessary school impact fees for the project would be full and satisfactory CEQA mitigation.

The City is served by the Contra Costa County Library, the Brentwood branch of which is approximately 20,000 square feet and is located at 104 Oak Street, 1.7 miles south of the project site. Implementation of the proposed project would create an increased demand for public facilities, such as libraries. However, the small increase in demand resulting from buildout of the proposed project could be accommodated by the existing facilities.

In addition, as discussed above in greater detail, the proposed project is consistent with the site’s General Plan land use and zoning designations. As such, buildout of the site, including associated demand on fire, police, schools, and other public facilities has been anticipated by the City and analyzed in the General Plan EIR.

Based on the above, the proposed project would have a less-than-significant impact related to the need for new or physically altered fire protection, police protection, school facilities, or other public facilities, the construction of which could cause significant environmental impacts. However, should the necessary school impact fees not be paid, a **potentially significant** impact may occur to school facilities.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

XV-1 *Prior to building permit issuance, the developer shall submit to the Community Development Department written proof from the Liberty Union High School District and the Brentwood Union School District that appropriate school mitigation fees have been paid.*

- b. Parks and recreation services within the City are provided by the City’s Parks and Recreation Department. Further discussion of impacts upon parks and recreation services can be found in Section XVI, Recreation, of this Initial Study. As described therein, the proposed project would include development of a 0.71-acre park, and would be required to pay in lieu fees pursuant to Section 16.150.050 of the Brentwood Municipal Code. In addition, the proposed project is consistent with the site’s General Plan land use and zoning designations. As such, buildout of the site, including associated demand on parks has been anticipated by the City and analyzed in the General Plan EIR. Without the payment of the appropriate in lieu fees, a **potentially significant** impact may occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

- XV-2 *Prior to building permit issuance, the project applicant shall pay the required park in-lieu fees as identified in the City's Development Fee Program.*

XVI. RECREATION.

Would the project:

| | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion

a,b. The nearest park to the project site is Homecoming Park, an approximately two-acre park located approximately 1,300 feet to the south. Additionally, the 39.7-acre Sunset Park Athletic Complex is located approximately 1,800 feet east of the site, across Marsh Creek. Policy CSF 2-2 of the General Plan establishes a standard of five acres of community or neighborhood recreational or park facility per 1,000 residents to ensure adequate recreational open space for the community. As such, the proposed project would be required to provide at least 1.44 acres of park land (287 residents / [1000/5]). The project would include on-site recreational amenities, in the form of a 0.71-acre park located near the eastern boundary. Therefore, the proposed project would not provide sufficient park space to meet the City’s requirements. Because the proposed project would not include park space sufficient to meet the total amount of park facilities required by the Municipal Code, the proposed project would be subject to fees in lieu of land dedication, consistent with the requirements set forth in Section 16.150.030 of the Municipal Code.

Revenues generated through impact fees on new development and in-lieu fees would pay for any new park and recreation facilities deemed necessary by the City. Park impact fees imposed by the City would generate revenue to acquire necessary land to develop new parks or rehabilitate existing neighborhood parks and recreation facilities reasonably related to serve the subdivision. Based on the above, should the proposed project not include payment of the appropriate in lieu fees, a **potentially significant** impact could occur with regard to parks and recreational facilities.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

XVI-1 *Implement Mitigation Measure XV-2.*

XVII. TRANSPORTATION.

Would the project:

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d. Result in inadequate emergency access? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion

a. The law has changed with respect to how transportation-related impacts may be addressed under CEQA. Previously, lead agencies used a performance metric entitled ‘level of service’ (LOS) to assess the significance of such impacts, with greater levels of congestion considered to be more significant than lesser levels. Enacted as part of SB 743 (2013), Public Resources Code Section 21099(b)(1), directed the Governor’s Office of Planning and Research (OPR) to prepare, develop, and transmit to the Secretary of the Natural Resources Agency for certification and adoption proposed CEQA Guidelines addressing “criteria for determining the significance of transportation impacts of projects within transit priority areas. Those criteria shall promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses.”

Pursuant to SB 743, the Natural Resources Agency promulgated CEQA Guidelines Section 15064.3 in late 2018. It became effective in early 2019. Subdivision (a) of that section provides that “[g]enerally, vehicle miles traveled is the most appropriate measure of transportation impacts. For the purposes of this section, ‘vehicle miles traveled’ (VMT) refers to the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel. Except as provided in subdivision (b)(2) below (regarding roadway capacity), a project’s effect on automobile delay shall not constitute a significant environmental impact.”³⁹

Please refer to Question ‘b’ for a discussion of VMT.

Pedestrian, Bicycle, and Transit Facilities

The proposed project’s potential impacts related to pedestrian, bicycle, and transit facilities are discussed below. The following discussion is based primarily on a Traffic Impact Analysis Report prepared for the project by TJKM Transportation Consultants (Appendix F).⁴⁰

³⁹ Subdivision (b)(2) of Section 15064.3 (“transportation projects”) provides that “[t]ransportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. To the extent that such impacts have already been adequately addressed at a programmatic level, such as in a regional transportation plan EIR, a lead agency may tier from that analysis as provided in Section 15152.”

⁴⁰ TJKM Transportation Consultants. *Draft Traffic Impact Analysis Report Hanson Lane Residential Development*. February 4, 2022.

Pedestrian and Bicycle Facilities

Pedestrian facilities generally include sidewalks, crosswalks, and pedestrian signals. Roadways in the City of Brentwood that have been developed to their ultimate width generally provide sidewalks on both sides of the street. In addition, the City of Brentwood currently includes ten miles of Class I bicycle paths and sixteen miles of Class II bike lanes.

The City has developed bicycle and pedestrian trail facilities across the City. Other local agencies have likewise contributed to such infrastructure. The Marsh Creek Regional Trail is a Class I multiuse trail that is located east of the project site. A Class I bike lane runs along Grant Street, west of Brentwood Boulevard, in connection with the Marsh Creek bike facility. Class II bike lanes have been proposed along Brentwood Boulevard, running north to Delta Road, and then turning east along Delta Road. Portions of the proposed Class II bike lane have been constructed along Brentwood Boulevard, between Homecoming Way and Hanson Lane. Class II and Class III bike facilities are proposed on multiple other roadways in the expanded project vicinity, as described in the 2018 Contra Costa County Bicycle and Pedestrian Plan.⁴¹ Overall, existing bicycle facilities provide intermittent connectivity between the project site and nearby destinations. A higher level of connectivity would be achieved once the proposed Class II bike lane along Brentwood Boulevard has been fully constructed.

Within the project vicinity, four signalized intersections are equipped with countdown pedestrian signal heads and crosswalks. In addition, the residential development immediately to the west of the project site, south of Lone Tree Way, has near-complete sidewalks within the block interior. Most nearby bus stops are partially accessible from the project site through roadways with only intermittent sidewalk coverage, the closest being located near the crossing of Lone Tree Way on Brentwood Boulevard. Pedestrian access to the nearest bus stop would be provided by the existing sidewalks along Lone Tree Way and Hanson Lane. The proposed project would include an extension of the on-site sidewalks to connect to the existing sidewalk on both sides of Hanson Lane.

Pursuant to General Plan Policy CIR 2-3, new development within the City of Brentwood is required to construct on-site sidewalks, paths, and trails consistent with the City's parks, trails, and recreation goals and policies and the Contra Costa County Countywide Bicycle and Pedestrian Plan. Additionally, General Plan Policies CIR 2-1 and 2-2 require new development within the City to incorporate sidewalks and enhanced pedestrian crossing facilities, and incorporate bicycle facilities on new collector and arterial streets in order to establish and maintain a system of interconnected bicycle and pedestrian system facilities consistent with the Countywide Bicycle and Pedestrian Plan.

Bicycle access to the project site is considered adequate and would not result in any significant impacts to the nearby bicycle facilities. Additionally, the proposed project would not disrupt existing pedestrian facilities, and would increase connectivity through the construction of new sidewalks within the project and along Hanson Lane to Brentwood Blvd.

Transit Facilities

⁴¹ Contra Coast County Transportation Authority. *2018 Countywide Bicycle and Pedestrian Plan*. July 2018.

Eastern Contra Costa Transit Authority (Tri Delta Transit) provides transit service in eastern Contra Costa County, serving the communities of Brentwood, Antioch, Oakley, Concord, Discovery Bay, Bay Point, and Pittsburg. Thirteen routes operate on weekdays, with four routes operating on weekends. Tri Delta Transit operates two routes (Route 383 and Route 385) on weekdays and two routes on weekends (Route 383 and Route 395) that serve the project area. Route 383 runs from the Tri Delta Transit Ticket Connection on Wilbur Avenue in Antioch east to the City of Oakley, and then south along Ohara Road to the City of Brentwood, and returns to Antioch following the same route. Route 385 runs between the Antioch Park & Ride (Hillcrest) and the Brentwood Park & Ride, using local streets including Hillcrest Avenue, Lone Tree Way, Sand Creek Road, Fairview Avenue, and Balfour Road, as well as SR 4 to approach the Route's selected trips to American Avenue.

Route 395 runs from the Antioch Park & Ride (Hillcrest) south on SR 4 to Lone Tree Way where the route heads east and then south to connect with Sand Creek Road before heading north on SR 4 back to the Antioch Park & Ride. In addition to the regular transit service to the project area, Tri Delta Transit provides dial-a-ride door-to-door service within Eastern Contra Costa County for people with disabilities and senior citizens.

A project is considered to have a significant impact on transit if the project conflicts with existing transit facilities, or is expected to generate additional transit trips beyond the capacity of the existing transit system. The proposed project is located approximately 0.3 mile east from bus stops on Brentwood Boulevard. Although bus frequencies are low, the project site is adequately served by the transit service. The transit service within the immediate project site operates within capacity, and additional trips generated by the proposed project could be accommodated by existing bus services. Therefore, the Traffic Impact Analysis Report determined that transit access to the project site is adequate and would not result in any significant impacts to the nearby transit network.

Conclusion

Based on the above and the Traffic Impact Study prepared for the project, the proposed project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities, and a **less-than-significant** impact could occur.

- b. Section 15064.3 of the CEQA Guidelines provides specific considerations for evaluating a project's transportation impacts. Pursuant to Section 15064.3, analysis of VMT attributable to a project is the most appropriate measure of transportation impacts. Other relevant considerations may include the effects of the project on transit and non-motorized travel. Although the City of Brentwood has not yet established any standards or thresholds regarding VMT, Section 15064.3(b) of the CEQA Guidelines defines the criteria for analyzing transportation impacts. In addition, VMT methodology and implementation guidelines were adopted by the Contra Costa Transportation Authority (CCTA) in July 2020.

TJKM Transportation Consultants prepared a Traffic Impact Analysis Report (see Appendix F),⁴² that evaluated the project-related VMT using the adopted CCTA VMT methodology. As discussed above, the City of Brentwood has not yet established any

⁴² TJKM Transportation Consultants. *Draft Traffic Impact Analysis Report Hanson Lane Residential Development*. February 4, 2022.

standards or thresholds regarding VMT, thus CCTA standards were used. The Governor's OPR Technical Advisory also provides guidance for implementing VMT as a metric for determining the transportation impact for land use projects.

The CCTA guidelines include a screening process that describes five scenarios in which a project would be exempted from a VMT analysis requirement: 1) projects exempt from CEQA analysis, 2) small projects, 3) local serving projects, 4) projects in transit priority areas, and 5) projects in low VMT areas. It should be noted that even if a project satisfies one or more of the screening criteria, lead agencies may still require a VMT analysis if evidence exists that the project has characteristics that might lead to a significant amount of VMT. The project does not satisfy the requirements for screening criteria one through four.

Under the CCTA VMT methodology, a low VMT area is defined as a City or unincorporated portion within one of the CCTA subregions where home-based VMT per resident is at least 15 percent below the countywide home-based VMT per resident or where the commute VMT per employee is at least 15 percent below the regional average commute VMT per employee. A conservative reading of the methodology would indicate that when the citywide average VMT per resident is above the countywide average, projects cannot be screened out based on location, and a VMT analysis must be completed. In such cases, the appropriate significance thresholds based on countywide or regional average would be applied. The methodology also permits the applicable average VMT for the subject municipality or unincorporated CCTA subregion to be used instead of the countywide or regional average, if the average VMT is less stringent. For baseline year 2020, the Contra Costa countywide home-based VMT per capita is 19.78. The City of Brentwood has an average home-based VMT per capita of 29.6, higher than the countywide average. As the existing residential VMT per capita in the City of Brentwood is higher than the Contra Costa countywide average, a VMT analysis is required for this project.

For residential projects, CCTA establishes a significance threshold of 15 percent below the subject municipality average residential VMT, or below the countywide average VMT, whichever is less stringent. The Contra Costa County average home-based VMT per capita generated by the CCTA travel demand model was calculated to be 19.78. The City of Brentwood average VMT per capita was calculated to be 29.6, and, thus, less stringent. The corresponding significance threshold, 15 percent below the citywide average, was calculated to be 25.16. According to the Traffic Report, the proposed project is projected to generate an average home-based VMT per capita of 21.26, which is below the aforementioned impact threshold. Therefore, based on CCTA significance thresholds, the project would produce a less-than-significant impact on VMT.

As such, the proposed project would be consistent with CEQA Guidelines Section 15064.3(b)(2), a **less-than-significant** impact would occur.

- c,d. Site access would be provided by way of Hanson Lane and Lone Tree Way. The proposed driveways along Hanson Lane or Lone Tree Way, would connect to a new internal roadway system provided throughout the project site. Development of the proposed project would also include new curb, gutter, sidewalk, and landscaping improvements along the portions of Hanson Lane and Lone Tree Way bordering the site.

The proposed circulation system would be designed consistent with applicable City of Brentwood design standards and would provide adequate width and turn radii at and along

all driveways and parking aisles to allow for two-way circulation, including circulation of larger vehicles such as emergency trucks, garbage trucks, and delivery trucks. Emergency vehicles would have sufficient maneuvering space to turn around at the two cul-de-sacs included in the project site. Additionally, a lot would be reserved for EVA access to and from Bonita Way. Given compliance with required roadway design standards, adequate emergency vehicle access would be provided at the project site.

Based on the above, the proposed project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment), and would not result in inadequate emergency access. Therefore, a ***less-than-significant*** impact would occur.

XVIII. TRIBAL CULTURAL RESOURCES.

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is:

| | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|--|--------------------------------|--|------------------------------|--------------------------|
| a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Discussion

a,b. As discussed in Section V, Cultural Resources, of this IS/MND, the Cultural Resources Assessment prepared for the proposed project included a record search of the NWIC. In addition, a records search by the NAHC of the Sacred Lands File conducted on December 16, 2021 for the proposed project resulted in negative findings of cultural resources on the project site. A pedestrian survey was also conducted by Solano Archaeological Services and did not identify any indications of such resources.

In compliance with AB 52 (PRC Section 21080.3.1), on October 19, 2022 the City provided formal notification letters to the Amah Mutsun Tribal Band of Mission San Juan Bautista, Chicken Ranch Rancheria of Me-Wuk Indians, Guidiville Indian Rancheria, Indian Canyon Mutsun Band of Costanoan, Muwekma Ohlone Indian Tribe of the SF Bay Area, Nashville Enterprise Miwok-Maidu-Nishinam Tribe, North Valley Yokuts Tribe, Ohlone Indian Tribe, Tule River Indian Tribe, Wilton Rancheria, Wuksache Indian Tribe/Eshom Valley Band and Confederated Villages of Lisjan. On October 31, 2022, a representative from the Wilton Rancheria requested further information about the proposed project. After receiving additional information, no further consultation was requested. Other requests to consult were not received during the required consultation period.

Based on the history of disturbance at the project site as a result of past development and agricultural uses, as well as the lack of identified tribal cultural resources at the site, known tribal cultural resources are not expected to occur within the site. Nevertheless, the possibility exists that development of the proposed project and off-site improvements could result in a substantial adverse change in the significance of a tribal cultural resource if previously unknown tribal cultural resources are uncovered during grading or other ground-disturbing activities. Thus, a **potentially significant** impact to tribal cultural resources could occur.

Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above potential impact to a *less-than-significant* level.

- XVIII-1. *If cultural resources are discovered during project-related construction activities, all ground disturbances within a minimum of 50 feet of the find shall be halted until a qualified professional archaeologist can evaluate the discovery. The archaeologist shall examine the resources, assess their significance, and recommend appropriate procedures to the lead agency to either further investigate or mitigate adverse impacts. If the find is determined by the lead agency in consultation with the Native American tribe traditionally and culturally affiliated with the geographic area of the project site to be a tribal cultural resource and the discovered archaeological resource cannot be avoided, then applicable mitigation measures for the resource shall be discussed with the geographically affiliated tribe. Applicable mitigation measures that also take into account the cultural values and meaning of the discovered tribal cultural resource, including confidentiality if requested by the tribe, shall be completed (e.g., preservation in place, data recovery program pursuant to Public Resources Code §21083.2[i]). During evaluation or mitigative treatment, ground disturbance and construction work could continue on other parts of the project site.*

XIX. UTILITIES AND SERVICE SYSTEMS.

Would the project:

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion

a-c. Water supply, wastewater treatment, stormwater drainage, electric power, natural gas, and telecommunications facilities necessary to serve the proposed project are described in the following sections.

Water Supply

The primary source of raw water supply to the City of Brentwood is provided by the Sacramento/San Joaquin Rivers Delta, and is then treated at the City of Brentwood Water Treatment Plant. Buildout of the City's planning area, including the project site, is accounted for in the City's Urban Water Management Plan, which provides a detailed analysis of the City's water distribution system. The City also has an adopted Capital Improvement Program (CIP) that includes improvements necessary to provide safe and reliable water delivery throughout the City based on projected growth and associated increases in demand on the City's distribution system.

The proposed streets would include the construction of new water lines throughout the site that would connect to the existing 8-inch water lines at Hanson Lane and Lone Tree Way. The existing 8-inch water line within Lone Tree Way would be upsized to 12-inches to Arroyo Seco Road to accommodate water demand of the proposed project.

According to the City's 2020 UWMP, adequate water supplies would be available to accommodate buildout of the City under normal year, single year, and multiple-dry year demand scenarios.⁴³ As the proposed project is consistent with the site's zoning and land use designations, buildout of the project site with residential uses was considered in the

⁴³ City of Brentwood. 2020 Urban Water Management Plan. June 2021, revised December 2021.

City's UWMP, the City's growth projections, and the associated water demand projections which were determined to be 26 million gallons per day in 2040. Therefore, the proposed project would not require or result in the relocation or construction of new or expanded off-site water facilities, the construction or relocation of which could cause significant environmental effects, and sufficient water supplies would be available to serve the proposed project and reasonably foreseeable future development during normal, dry, and multiple dry years.

Wastewater Conveyance and Treatment

The Public Works Department's Wastewater Division operates and maintains the City's Wastewater Treatment Plant (WWTP), a tertiary treatment plant that provides recycled water for a variety of landscape and industrial uses. According to the City of Brentwood General Plan Update EIR,⁴⁴ the WWTP has an average dry weather flow capacity of 5 million gallons per day (mgd) and was designed to be expandable to an average dry weather flow capacity of 10 mgd. The WWTP is also currently being expanded to accommodate an average dry weather flow capacity of 6.4 mgd. The expansion is expected to be completed in 2023.⁴⁵ After being treated, wastewater is normally discharged into Marsh Creek or recycled for irrigation.

The General Plan EIR bases anticipated wastewater demand on a generation rate of 243 gallons per day (gpd) per residence. The proposed project would include the construction of 89 single-family residential units. Therefore, the proposed project would be anticipated to generate a total of 21,627 gpd of wastewater.

An increase of 21,627 gpd is relatively minor compared to the 3.4 mgd of average dry weather flow currently treated by the WWTP, and would not have a substantial impact on the available capacity of the WWTP. The project applicant would be required to pay sewer connection fees, which work to fund future needed sewer system improvements. In addition, the proposed project is consistent with the site's General Plan land use and zoning designations and as such, buildout of the site is anticipated and impacts to wastewater systems has been previously analyzed in the General Plan EIR. Because the project applicant would pay sewer connection fees, and adequate long-term wastewater treatment capacity is available to serve full build-out of the project, the project would not require or result in the relocation or construction of new or expanded off-site wastewater facilities, the construction or relocation of which could cause significant environmental effects. In addition, adequate wastewater treatment capacity is available to serve the project's projected demand in addition to the provider's existing commitments.

Stormwater Drainage

The project site is currently undeveloped, vacant land consisting primarily of non-native vegetation. Completion of the proposed project would increase site runoff due to the introduction of impervious surfaces to the site. As discussed in further detail in Section X, Hydrology and Water Quality, of this Initial Study, the proposed project would comply with the most recent Contra Costa Clean Water Program Stormwater C.3 Guidebook, as well as all City stormwater requirements. In compliance with the C.3 Guidebook, the proposed project would include on-site bioretention facilities sized to exceed the minimum volume requirement necessary to adequately manage all runoff from the proposed impervious

⁴⁴ City of Brentwood. *Public Draft Environmental Impact Report for the 2014 Brentwood General Plan Update*. April 2014.

⁴⁵ City of Brentwood. *2020 Urban Water Management Plan*. June 2021, revised December 2021.

surfaces. Thus, the project would not require new or expanded off-site stormwater infrastructure. Because the proposed bio-retention facility would be designed with adequate capacity to capture and treat runoff from proposed impervious surfaces, the proposed project would not generate runoff in excess of the City's existing stormwater system's capacity.

Electric Power, Natural Gas, and Telecommunications

The proposed project would include new connections to existing electric power and telecommunications facilities located in the project vicinity. Compliance with Mitigation Measure VIII-1 would ensure the proposed project would not include connections to existing natural gas facilities. Thus, substantial expansion of off-site utilities would not be required to serve the proposed residential development, and associated environmental effects would not occur.

Conclusion

Based on the above, the proposed project would not 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. In addition, sufficient water supplies would be available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years, and adequate wastewater treatment capacity is available to serve the project's projected demand in addition to the provider's existing commitments. Thus, a **less-than-significant** impact would occur.

- d,e. The City of Brentwood provides solid waste collection, disposal, recycling, and yard waste services to the City, including the project site. Solid waste and recyclables from the City are taken to the Solid Waste Transfer Station located at 2301 Elkins Way, in the northeastern area of the City. Solid waste is transferred from the Transfer Station to the Keller Canyon Landfill in Pittsburg. Keller Canyon Landfill covers 2,600 acres of land; 244 acres are permitted for disposal. The site currently handles 2,500 tons of waste per day, although the permit for the site allows up to 3,500 tons of waste per day to be managed at the facility. According to the California Department of Resources Recycling and Recovery (CalRecycle), the Keller Canyon Landfill has a remaining capacity of 63,408,410 CY out of a total permitted capacity of 75,018,280 or 85 percent remaining capacity.⁴⁶ Furthermore, pursuant to the CALGreen Code, at least 65 percent diversion of construction waste is required for projects permitted after January 1, 2017. Because the project would only create a temporary increase in the amount of waste during construction activities, the proposed project would not result in a significant impact related to solid waste generation during construction.

In addition, given the proposed project is consistent with the site's General Plan land use and zoning designations, solid waste associated with operations of the proposed project has been anticipated by the City.

Based on the above, the proposed project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals and would comply with federal, State,

⁴⁶ California Department of Resources Recycling and Recovery (CalRecycle). *Facility/Site Summary Details: Keller Canyon Landfill (07-AA-0032)*. Available at: <https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/4407?siteID=228>. Accessed October 2022.

and local management and reduction statutes and regulations related to solid waste. Therefore, a ***less-than-significant*** impact would occur.

XX. WILDFIRE.

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

| | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|--|--------------------------------|--|-------------------------------------|--------------------------|
| a. Substantially impair an adopted emergency response plan or emergency evacuation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion

a-d. There are no State Responsibility Areas (SRAs) within the vicinity of the Brentwood Planning Area. According to the CAL FIRE, the project site is not located within a Very High Fire Hazard Severity Zone (FHSZ).⁴⁷ Only a few communities within Contra Costa County have portions categorized as a "Very High" FHSZ by CalFire. Although this CEQA topic only applies to areas within a SRA or Very High FHSZ, out of an abundance of caution, these checklist questions are analyzed below.

As the proposed project is generally consistent with the project site's zoning and land use designations, implementation of the proposed project would not interfere with an adopted emergency response plan or emergency evacuation plan. Furthermore, the site is generally surrounded by existing development, and the developed nature of the area surrounding the project site precludes the spread of wildfire to the site. Additionally, the project site is relatively flat and does not contain steep slopes that would accelerate the spread of fire. Furthermore, the flat topography of the site would ensure that issues related to downslope or downstream flooding or landslide does not occur. The project would be required to comply with all applicable requirements of the California Fire Code, as adopted by Section 15.06.010 of the City's Municipal Code. The proposed project would not be required to establish fire breaks or construct other infrastructure that would have the potential to exacerbate fire risk. Therefore, the proposed project would not expose people or structures to the risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands. As a result, the proposed project would result in a **less-than-significant** impact related to substantial risk or hazards related to wildfires.

⁴⁷ California Department of Forestry and Fire Protection. *FHSZ Viewer*. Available at: <https://egis.fire.ca.gov/FHSZ/>. Accessed September 2022.

XXI. MANDATORY FINDINGS OF SIGNIFICANCE.

| | 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion

a. As discussed in Section IV, Biological Resources, of this IS/MND, while a limited potential exists for special-status species to occur on-site, compliance with the ECCCHCP/NCCP and implementation of Mitigation Measures IV-1 through IV-5 would ensure that any impacts related to special-status species would be reduced to a less-than-significant level. The project site does not contain any known historic or prehistoric resources. Thus, implementation of the proposed project is not anticipated to have the potential to result in impacts related to historic or prehistoric resources. Nevertheless, Mitigation Measures V-1 through V-3 would ensure that in the event that prehistoric resources are discovered within the project site, such resources would be protected in compliance with the requirements of CEQA and other State standards.

Considering the above, the proposed project would not degrade the quality of the environment, substantially reduce or impact the habitat of fish or wildlife species, cause fish or wildlife populations to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory. Therefore, a **less-than-significant** impact would occur.

b. The proposed project, in conjunction with other development within the City of Brentwood, could incrementally contribute to cumulative impacts in the area. However, as demonstrated in this IS/MND, all potential environmental impacts that could occur as a result of project implementation would be reduced to a less-than-significant level through compliance with the mitigation measures included in this IS/MND, as well as applicable General Plan policies, Municipal Code requirements, and other applicable local and State regulations.

Therefore, when viewed in conjunction with other closely related past, present, or reasonably foreseeable future projects, development of the proposed project would not result in a cumulatively considerable contribution to cumulative impacts in the City of

Brentwood, and the project's incremental contribution to cumulative impacts would be **less than significant**.

- c. As described in this IS/MND, the proposed project would comply with all applicable General Plan policies, Municipal Code requirements, other applicable local and State regulations, in addition to the mitigation measures included herein. In addition, the proposed project is consistent with the project site land use and zoning designations, and thus substantial effects on human being is not anticipated to result from implementation of the project. As discussed in Section III, Air Quality, Section VII, Geology and Soils, Section IX, Hazards and Hazardous Materials, Section X, Hydrology and Water Quality, and Section XIII, Noise, of this IS/MND, construction activities and operational activities may result in a potentially significant impact. However, mitigation measures are included to reduce any potential impacts to a less-than-significant level. Therefore, the proposed project would result in a **less-than-significant** impact.

APPENDIX A

AIR QUALITY, GREENHOUSE GAS EMISSIONS, AND ENERGY ANALYSIS REPORT

Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report Hanson Lane Residential Project City of Brentwood, Contra Costa County, California

Prepared for:

MLC Holdings, Inc.

2603 Camino Ramon, Suite 140
San Ramon, CA 94583
925.516.5405

Contact: Paul Manyisha, Forward Planning Manager

Prepared by:

FirstCarbon Solutions

1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597
925.357.2562

Contact: Mary Bean, Project Director
Philip Ault, Director of Noise and Air Quality

Contributing Authors:

Kimber Johnson, Air Quality Scientist
Spencer Pignotti, Air Quality Associate

Report Date: March 15, 2022

Table of Contents

| | |
|--|------------|
| Acronyms and Abbreviations | v |
| Section 1: Introduction | 1 |
| 1.1 - Purpose and Methods of Analysis..... | 1 |
| 1.2 - Project Summary..... | 1 |
| 1.3 - Summary of Analysis Results..... | 2 |
| 1.4 - Mitigation Measures Applied to the Proposed Project..... | 4 |
| Section 2: Air Quality Setting | 11 |
| 2.1 - Environmental Setting..... | 11 |
| 2.2 - Regulatory Setting..... | 12 |
| 2.3 - Existing Air Quality Conditions..... | 23 |
| 2.4 - Air Quality Plans and Regulations..... | 27 |
| Section 3: Climate Change Setting | 35 |
| 3.1 - Climate Change..... | 35 |
| 3.2 - Greenhouse Gases..... | 37 |
| 3.3 - Regulatory Environment..... | 42 |
| Section 4: Modeling Parameters and Assumptions | 59 |
| 4.1 - Model Selection and Guidance..... | 59 |
| 4.2 - Air Pollutants and GHGs Assessed..... | 59 |
| 4.3 - Modeling Assumptions..... | 60 |
| Section 5: Air Quality Impact Analysis | 67 |
| 5.1 - CEQA Guidelines..... | 67 |
| 5.2 - Impact Analysis..... | 69 |
| Section 6: Greenhouse Gas Impact Analysis | 91 |
| 6.1 - CEQA Guidelines..... | 91 |
| 6.2 - Impact Analysis..... | 94 |
| Section 7: Energy Impact Analysis | 101 |
| 7.1 - CEQA Guidelines..... | 101 |
| 7.2 - Impact Analysis..... | 101 |

Appendix A: Air Quality, GHG Emissions, and Energy Supporting Information

List of Tables

| | |
|--|----|
| Table 1: Description of Air Pollutants..... | 15 |
| Table 2: Air Quality Monitoring Summary..... | 24 |
| Table 3: Air Quality Index and Health Effects from Ozone..... | 25 |
| Table 4: San Francisco Bay Area Air Basin Attainment Status..... | 26 |
| Table 5: Description of Greenhouse Gases..... | 38 |
| Table 6: Construction Schedule..... | 61 |
| Table 7: Project Construction Equipment Assumptions..... | 62 |

Table 8: Construction Off-site Trips 63

Table 9: Vehicle Trip Generation During Operations (Daily) 64

Table 10: BAAQMD Regional (Mass Emissions) Air Pollutant Significance Thresholds 68

Table 11: Project Consistency with Applicable Clean Air Plan Control Measures 71

Table 12: Annual Unmitigated Construction Emissions (tons/year)..... 76

Table 13: Average Daily Operational Emissions (Unmitigated) 77

Table 14: Annual Operational Emissions (Unmitigated)..... 77

Table 15: Estimated Health Risks and Hazards—Project Construction 81

Table 16: Summary of the Cumulative Health Impacts at the MIR during Construction 83

Table 17: Cumulative Operational Air Quality Health Impacts at the Project Site 85

Table 18: Odor Screening Distances 87

Table 19: Proposed Project Construction GHG Emissions 94

Table 20: Operational Greenhouse Gas Emissions (Unmitigated)..... 95

Table 21: Consistency with SB 32 2017 Scoping Plan Update 98

List of Exhibits

Exhibit 1: Regional Location Map 5

Exhibit 2: Local Vicinity Map..... 7

Exhibit 3: Site Plan 9

List of Figures

Figure 1: Observed and Projected Temperatures for Climate Change in the Project Area 37

Figure 2: 2019 U.S. Greenhouse Gas Emissions by Economic Sector 41

Figure 3: California GHG Emissions by Sector 42

ACRONYMS AND ABBREVIATIONS

| | |
|-------------------|---|
| °F | degrees Fahrenheit |
| µg/m ³ | micrograms per cubic meter |
| AB | Assembly Bill |
| ACTM | Airborne Toxics Control Measure |
| ADA | Americans with Disabilities Act |
| APN | Assessor’s Parcel Number |
| AQI | Air Quality Index |
| AQMD | Air Quality Management District |
| AQP | Air Quality Plan |
| ARB | California Air Resources Board |
| ATCM | Airborne Toxic Control Measure |
| BAAQMD | Bay Area Air Quality Management District |
| BACT | Best Available Control Technology |
| BAU | business-as-usual |
| BMP | Best Management Practice |
| C ² ES | Center for Climate and Energy Solutions |
| CAAQS | California Ambient Air Quality Standards |
| CalEEMod | California Emissions Estimator Model |
| Cal/EPA | California Environmental Protection Agency |
| CALGreen | California Green Building Standards Code |
| CAP | Climate Action Plan |
| CAPCOA | California Air Pollution Control Officers Association |
| CalRecycle | California Department of Resources Recycling and Recovery |
| CBC | California Building Standards Code |
| CCAA | California Clean Air Act |
| CCCC | California Climate Change Center |
| CCR | California Code of Regulations |
| CCTA | Contra Costa Transportation Authority |
| CDC | Center for Disease Control and Prevention |
| CEC | California Energy Commission |
| CEQA | California Environmental Quality Act |
| CH ₄ | methane |
| CNEL | Community Noise Equivalent Level |
| CO | carbon monoxide |
| CO ₂ | carbon dioxide |

Acronyms and Abbreviations

| | |
|-------------------|---|
| CO ₂ e | carbon dioxide equivalent |
| COA | Condition of Approval |
| CPUC | California Public Utility Commission |
| DPM | diesel particulate matter |
| EIR | Environmental Impact Report |
| EMFAC | Emission Factors Model |
| EPA | United States Environmental Protection Agency |
| EV | electric vehicle |
| EVA | Emergency Vehicle Access |
| FAR | floor area ratio |
| GAMAQI | Guidance for Assessing and Mitigating Air Quality Impacts |
| GDP | gross domestic product |
| GHG | greenhouse gas |
| GIS | Geographic Information System |
| HAP | Hazardous Air Pollutant |
| HFC | hydrofluorocarbon |
| HI | hazard index |
| hp | horsepower |
| HRA | Health Risk Assessment |
| HVAC | heating, ventilation, and air conditioning |
| IPCC | United Nations Intergovernmental Panel on Climate Change |
| kBTU | kilo-British Thermal Unit |
| LCFS | Low Carbon Fuel Standard |
| LEED™ | Leadership in Energy Efficient Design |
| LEV | Low Emission Vehicle |
| MERV | Minimum Efficiency Reporting Value |
| MIR | Maximally Impacted Sensitive Receptor |
| MM | Mitigation Measure |
| MMT | million metric tons |
| mpg | miles per gallon |
| MPO | Metropolitan Planning Organization |
| MT | metric tons |
| MWh | megawatt-hour |
| N ₂ O | nitrous oxide |
| NAAQS | National Ambient Air Quality Standards |
| NF ₃ | nitrogen trifluoride |
| NO _x | nitrogen oxides |
| OAL | Office of Administrative Law |

| | |
|-------------------|--|
| OEHHA | Office of Environmental Health Hazards Assessment |
| OPR | Governor’s Office of Planning and Research |
| PFC | perfluorocarbon |
| PG&E | Pacific Gas and Electric Company |
| PM | particulate matter |
| PM ₁₀ | particulate matter less than 10 microns in diameter |
| PM _{2.5} | particulate matter less than 2.5 microns in diameter |
| ppb | parts per billion |
| ppm | parts per million |
| REL | Reference Exposure Level |
| ROG | reactive organic gas |
| RPS | Renewables Portfolio Standard |
| RTP | Regional Transportation Plan |
| SB | Senate Bill |
| SCAQMD | South Coast Air Quality Management District |
| SF ₆ | sulfur hexafluoride |
| SIP | State Implementation Plan |
| SLCP | Short-Lived Climate Pollutant |
| SoCAB | South Coast Air Basin |
| SO _x | sulfur oxides |
| SP | service population |
| TAC | toxic air contaminant |
| TIA | Traffic Impact Analysis |
| TRU | Transport Refrigeration Unit |
| USGS | United States Geological Survey |
| VMT | Vehicle Miles Traveled |
| VOC | volatile organic compound |
| ZEV | Zero-Emission Vehicle |

SECTION 1: INTRODUCTION

1.1 - Purpose and Methods of Analysis

This Air Quality, Greenhouse Gas Emissions, and Energy Analysis Report was prepared to evaluate whether the estimated criteria air pollutant, ozone precursor, toxic air contaminant (TAC), and/or greenhouse gas (GHG) emissions generated from construction and/or operation of the proposed Hanson Lane Residential Project (proposed project) would cause significant impacts to air resources in the project area. The respective analyses were conducted within the context of the California Environmental Quality Act (CEQA) (California Public Resources Code [PRC] § 21000, et seq.). The analysis methodology follows the Bay Area Air Quality Management District (BAAQMD) and City of Brentwood recommendations for the quantification of emissions and evaluation of potential impacts on air resources.

1.2 - Project Summary

1.2.1 - Site Location

The project site is located at 251 Hanson Lane in the City of Brentwood, in Contra Costa County, California (Exhibit 1). The approximate 19.8-acre project site is associated with Assessor's Parcel Number (APN) 018-230-0343 on the *Brentwood, California* United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle Map. The project site is located 2.8-mile east of State Route (SR) 4 and immediately west of a man-made drainage channel Marsh Creek.

1.2.2 - Environmental Setting

Project Site

The project site currently contains one existing barn structure but is otherwise vacant and undeveloped. Mature trees are located around the rural residential residences to the west and southern portion of the site, and grass and weed vegetation occur throughout the entire site (Exhibit 2).

Project Vicinity

Surrounding land uses include Residential Medium density and Ranchette Estate to the west, Residential Low Density to the north, and Public Facility and Industrial uses to the east immediately past Marsh Creek.

The project site is surrounded by residential units, industrial businesses, rural land, and Marsh Creek. Adjoining and nearby properties include the following:

- North: Residential dwelling units, rural land, and Lone Tree Way
- South: Hanson Lane and Residential Medium Density
- East: Marsh Creek, industrial businesses, and Brentwood Solid Waste Operations
- West: Residential Medium Density, Ranchette Estate, Bonita Way, and Beverly Place

Additionally, an existing underground storm drain pipeline crosses the project site from west-to-east in a 15-foot easement. The pipeline outfalls into Marsh Creek.

1.2.3 - General Plan and Zoning

According to the Brentwood General Plan, the proposed project is designated as Residential Low Density (R-LD) and is zoned Planned Development-71 (PD-71) by the Brentwood Zoning Ordinance. The primary use intended for the PD-71 zone is to develop detached single-family residential, duets, park, and open space uses.¹

1.2.4 - Project Summary

The project applicant, MLC Holdings, is proposing to subdivide the project site and develop 89 residential lots on the approximate 19.8-acre site. The proposed project would include the construction of 89 single-family dwelling units, providing 12 three-bedroom units, 39 four-bedroom units with a loft, and 38 four-bedroom units with an office (Exhibit 3).

The proposed project would also provide amenities such as an approximate 1.46-acre park and an open space area for residents to utilize. The proposed park would include a basketball court, a play structure with play surfacing, turf grass areas, and a picnic table area.

The proposed project would include 0.74 acre of off-site improvements that would be composed of a trail from the end of Hanson Lane to Homecoming Park as well as sidewalks on both sides of Hanson Lane from the project site that would extend to 181 Hanson Lane. The off-site improvements would be paved and included site preparation, grading, paving, and architectural coating activities.

1.2.5 - Vehicular Access

Vehicle access to the project site would be provided via a network of 26-foot-wide internal roadways within the site that would connect to one access point on Lone Tree Way and one on Hanson Lane. One Emergency Vehicle Access (EVA) would connect to Bonita Way.

1.2.6 - Construction

The project applicant anticipates that construction of the proposed project would begin as early as September 2022 and end in June 2024. Construction activities would include demolition, site preparation, grading, building construction, architectural coatings, and paving.

1.3 - Summary of Analysis Results

The following is a summary of the analysis results. Please refer to Section 5, Air Quality Impact Analysis; Section 6, Greenhouse Gas Impact Analysis; and Section 7, Energy Impact Analysis, which provide the comprehensive analysis in support of the findings and conclusion of significance.

¹ City of Brentwood. 2008. Brentwood Municipal Code – Chapter 17.521.001. Website: http://qcode.us/codes/brentwood/view.php?topic=17-viii-17_521-17_521_001&frames=on. Accessed November 17, 2021.

Impact AIR-1 The proposed project could conflict with or obstruct implementation of the applicable air quality plan.

Less than significant impact with mitigation incorporated.

Impact AIR-2 The proposed project could result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors).

Less than significant with mitigation incorporated.

Impact AIR-3 The proposed project could expose sensitive receptors to substantial pollutant concentrations.

Less than significant impact with mitigation incorporated.

Impact AIR-4 The proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Less than significant impact.

Impact GHG-1 The proposed project would generate direct and indirect greenhouse gas emissions; however, these emissions would not result in a significant impact on the environment.

Less than significant impact.

Impact GHG-2 The proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted to reduce the emissions of GHG.

Less than significant impact.

Impact ENER-1 The proposed project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during construction or operation.

Less than significant impact.

Impact ENER-2 The proposed project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Less than significant impact.

1.4 - Mitigation Measures Applied to the Proposed Project

Air Quality

- MM AIR-1** During construction activities, the following Best Management Practices (BMPs) shall be implemented:
- Exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
 - All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
 - All visible mud or dirt tracked out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
 - All vehicle speeds on unpaved roads shall be limited to 15 miles per hour.
 - All roadways, driveways, and sidewalks shall be paved as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
 - Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure (ATCM) Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
 - All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
 - A publicly visible sign shall be posted with the telephone number and person to contact at the City of Brentwood regarding dust complaints. This person shall respond and take corrective action within 48 hours of a complaint or issue notification. The Bay Area Air Quality Management District (BAAQMD) phone number shall also be visible to ensure compliance with applicable regulations.
- MM AIR-3** Prior to the issuance of any demolition, grading, or building permits (whichever occurs earliest), the project applicant and/or construction contractor shall prepare a construction operations plan that, during construction activities, requires all off-road equipment with engines greater than 50 horsepower to meet United States Environmental Protection Agency (EPA) particulate matter emissions standards for Tier 4 Interim engines. The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number.
- The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the Department of Community Development for the City of Brentwood.

Exhibit 1: Regional Location Map

Exhibit 2: Local Vicinity Map

Exhibit 3: Site Plan

SECTION 2: AIR QUALITY SETTING

2.1 - Environmental Setting

The proposed project is located in the City of Brentwood, California and within the San Francisco Bay Area Air Basin (Air Basin). Regional air quality and local air quality are impacted by topography, dominant airflows, atmospheric inversions, location, and season. The following section describes these conditions as they pertain to the Air Basin.

2.1.1 - San Francisco Bay Area Air Basin

The San Francisco Bay Area has a Mediterranean climate characterized by mild, dry summers and mild, moderately wet winters; moderate daytime onshore breezes, and moderate humidity. The North Bay region of the Bay Area extends from the Golden Gate Bridge northward to Santa Rosa and eastward to Fairfield.

A semi-permanent, high-pressure area centered over the northeastern Pacific Ocean dominates the summer climate of the West Coast. Because this high-pressure cell is quite persistent, storms rarely affect the California coast during the summer. Thus, the conditions that persist along the coast of California during summer are a northwest airflow and negligible precipitation. A thermal low-pressure area from the Sonoran-Mojave Desert also causes air to flow onshore over the San Francisco Bay Area much of the summer.

The steady northwesterly flow around the eastern edge of the Pacific High (a high-pressure cell) exerts stress on the ocean surface along the West Coast. This induces upwelling of cold water from below. Upwelling produces a band of cold water off San Francisco that is approximately 80 miles wide. During July, the surface waters off San Francisco are 3°F (degrees Fahrenheit) cooler than those off Vancouver, British Columbia, more than 900 miles to the north. Air approaching the California coast, already cool and moisture-laden from its long trajectory over the Pacific, is further cooled as it flows across this cold bank of water near the coast, thus accentuating the temperature contrast across the coastline. This cooling is often sufficient to produce condensation—a high incidence of fog and stratus clouds along the Northern California coast in summer.

In summer, the northwest winds to the west of the Pacific coastline are drawn into the interior through the gap in the western Coast Ranges, known as the Golden Gate, and over the lower portions of the San Francisco Peninsula. Immediately to the south of Mount Tamalpais, the northwesterly winds accelerate considerably and come more nearly from the west as they stream through the Golden Gate. This channeling of the flow through the Golden Gate produces a jet that sweeps eastward but widens downstream, producing southwest winds at Berkeley and northwest winds at San José; a branch curves eastward through the Carquinez Straits and into the Central Valley. Wind speeds may be locally strong in regions where air is channeled through a narrow opening such as the Golden Gate, the Carquinez Strait, or San Bruno Gap.

The sea breeze between the coast and the Central Valley commences near the surface along the coast in late morning or early afternoon; it may first be observed only through the Golden Gate.

Later in the day, the layer deepens and intensifies while spreading inland. As the breeze intensifies and deepens, it flows over the lower hills farther south along the peninsula. This process frequently can be observed as a bank of stratus clouds “rolling over” the coastal hills on the west side of the bay. The depth of the sea breeze depends in large part upon the height and strength of the inversion. The generally low elevation of this stable layer of air prevents marine air from flowing over the coastal hills. It is unusual for the summer sea breeze to flow over terrain exceeding 2,000 feet in elevation.

In winter, the Air Basin experiences periods of storminess, moderate-to-strong winds, and periods of stagnation with very light winds. Winter stagnation episodes are characterized by outflow from the Central Valley, nighttime drainage flows in coastal valleys, weak onshore flows in the afternoon, and otherwise light and variable winds.

A primary factor in air quality is the mixing depth (the vertical air column available for dilution of contaminant sources). Generally, the temperature of air decreases with height, creating a gradient from warmer air near the ground to cooler air at elevation. This is caused by most of the sun’s energy being converted to sensible heat at the ground, which in turn warms the air at the surface. The warm air rises in the atmosphere, where it expands and cools. Sometimes, however, the temperature of air actually increases with height. This condition is known as temperature inversion because the temperature profile of the atmosphere is “inverted” from its usual state. The frequent occurrence of temperature inversions limits mixing depth over the Air Basin and, consequently, limits the availability of air for dilution.

2.2 - Regulatory Setting

Air pollutants are regulated to protect human health and for secondary effects such as visibility and building soiling. The Clean Air Act of 1970 tasks the United States Environmental Protection Agency (EPA) with setting air quality standards. The State of California also sets air quality standards that are, in some cases, more stringent than federal standards and address additional pollutants. The following section describes these federal and State standards and the health effects of the regulated pollutants.

2.2.1 - Clean Air Act

Congress established much of the basic structure of the Clean Air Act in 1970 and made major revisions in 1977 and 1990. Six common air pollutants (also known as criteria pollutants and listed below) are addressed in the Clean Air Act. The EPA calls these pollutants criteria air pollutants because it regulates them by developing human health-based and environmentally based criteria (science-based guidelines) for setting permissible levels. The set of limits based on human health are called primary standards. Primary federal standards are the levels of air quality necessary, with an adequate margin of safety, to protect the public health. Another set of limits intended to prevent environmental and property damage are called secondary standards.² The federal standards are called National Ambient Air Quality Standards (NAAQS). The air quality standards provide benchmarks for determining whether air quality is healthy at specific locations and whether

² United States Environmental Protection Agency (EPA). 2016. NAAQS Table. December 20. Website: <https://www.epa.gov/criteria-air-pollutants/naaqs-table>. Accessed March 14, 2022.

development activities will cause or contribute to a violation of the standards. The criteria pollutants are:

- Ozone (O₃)
- Nitrogen dioxide (NO₂)
- Lead (Pb)
- Particulate matter (PM₁₀ and PM_{2.5})
- Carbon monoxide (CO)
- Sulfur dioxide (SO₂)

The federal standards were set to protect public health, including that of sensitive individuals; thus, the EPA is tasked with updating the standards as more medical research is available regarding the health effects of the criteria pollutants.

2.2.2 - California Clean Air Act

The California Legislature enacted the California Clean Air Act (CCAA) in 1988 to address air quality issues of concern not adequately addressed by the Federal Clean Air Act at the time. California's air quality problems were and continue to be some of the most severe in the nation and required additional actions beyond the federal mandates. The California Air Resources Board (ARB) administers California Ambient Air Quality Standards (CAAQS) for the 10 air pollutants designated in the CCAA. The 10 State air pollutants are the six federal standards listed above as well as visibility-reducing particulates, hydrogen sulfide, sulfates, and vinyl chloride. It should be noted that the EPA rescinded California's waiver for its GHG and Zero-Emission Vehicle (ZEV) mandates that were more stringent than other federal regulations implementing the Clean Air Act;³ however, all ARB standards are still in effect at the time of this writing. However, on March 9, 2022 the U.S. EPA reinstated California's waiver for its GHG and ZEV mandates that were more stringent than other regulations contained in the Clean Air Act.⁴

2.2.3 - Toxic Air Contaminants

A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. There are no ambient air quality standards for TAC emissions. TACs are regulated in terms of health risks to individuals and populations exposed to the pollutants. The 1990 Clean Air Act Amendments significantly expanded the EPA's authority to regulate Hazardous Air Pollutants (HAPs). Section 112 of the Clean Air Act lists 187 HAPs to be regulated by source category. Authority to regulate these pollutants was delegated to individual states. The ARB and local air districts regulate TACs and HAPs in California.

The California Almanac of Emissions and Air Quality—2013 edition presents the relevant concentration and cancer risk data for the 10 TACs that pose the most substantial health risk in

³ Beveridge & Diamond Professional Corporation. 2019. EPA Rescinds California's Authority to Regulate Vehicle Tailpipe Greenhouse Gas Emissions and to Implement a Zero Emission Vehicle Program. September 23. Website: <https://www.bdlaw.com/publications/epa-rescinds-californias-authority-to-regulate-vehicle-tailpipe-greenhouse-gas-emissions-and-to-implement-a-zero-emission-vehicle-program/>. Accessed March 14, 2022.

⁴ Coral Davenport. New York Times. Website: <https://www.nytimes.com/2022/03/09/climate/biden-california-tailpipe-waiver.html>. Accessed March 14, 2022.

California based on available data.⁵ The 10 TACs are acetaldehyde, benzene, 1,3-butadiene, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, perchloroethylene, and diesel particulate matter (DPM).

Some studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk.⁶ In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TACs in that it is not a single substance, but a complex mixture of hundreds of substances. Although DPM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TACs, however, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The ARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the ARB emissions inventory's PM₁₀ database, ambient PM₁₀ monitoring data, and the results from several studies to estimate concentrations of DPM.

2.2.4 - Air Pollutant Description and Health Effects

The federal and State ambient air quality standards, relevant effects, properties, and sources of the air pollutants are summarized in Table 1.

⁵ California Air Resources Board (ARB). 2013. The California Almanac of Emissions and Air Quality—2013 Edition. Website: <https://ww2.arb.ca.gov/our-work/programs/almanac-emissions-air-quality/about>. Accessed March 14, 2022.

⁶ California Air Resources Board (ARB). 1998. The Report on Diesel Exhaust. Website: <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/dieseltac/de-fnds.htm>. Accessed March 14, 2022.

Table 1: Description of Air Pollutants

| Air Pollutant | Averaging Time | California Standard | Federal Standard | Most Relevant Effects from Pollutant Exposure | Properties | Sources | | | | | | | | | | | | | | | | |
|------------------------------|----------------|---------------------|------------------------|--|--|--|------------------------------|--------|----------|-----------|---|--|--|---------|-----------|-----------|------------------------------|--------|----------|-----------|---|--|
| Ozone | 1 Hour | 0.09 ppm | — | Irritate respiratory system; reduce lung function; breathing pattern changes; reduction of breathing capacity; inflame and damage cells that line the lungs; make lungs more susceptible to infection; aggravate asthma; aggravate other chronic lung diseases; cause permanent lung damage; some immunological changes; increased mortality risk; vegetation and property damage. | Ozone is a photochemical pollutant as it is not emitted directly into the atmosphere but is formed by a complex series of chemical reactions between volatile organic compounds (VOCs), nitrogen oxides (NO _x), and sunlight. Ozone is a regional pollutant that is generated over a large area and is transported and spread by the wind. Hot, sunny, and calm weather conditions are favorable to ozone formation. | Ozone is a secondary pollutant; thus, it is not emitted directly into the lower level of the atmosphere. The primary sources of ozone precursors (VOC and NO _x) are mobile sources (on-road and off-road vehicle exhaust). | | | | | | | | | | | | | | | | |
| | 8 Hours | 0.070 ppm | 0.070 ppm ^f | | | | CO | 1 Hour | 20 ppm | 35 ppm | Ranges depend on exposure: slight headaches; nausea; aggravation of angina pectoris (chest pain) and other aspects of coronary heart disease; decreased exercise tolerance in persons with peripheral vascular disease and lung disease; impairment of central nervous system functions; possible increased risk to fetuses; death. | CO is a colorless, odorless, toxic gas. CO is somewhat soluble in water; therefore, rainfall and fog can suppress CO conditions. CO enters the body through the lungs, dissolves in the blood, replaces oxygen as an attachment to hemoglobin, and reduces available oxygen in the blood. | CO is produced by incomplete combustion of carbon-containing fuels (e.g., gasoline, diesel fuel, and biomass). Sources include motor vehicle exhaust, industrial processes (metals processing and chemical manufacturing), residential wood burning, and natural sources. | 8 Hours | 9.0 ppm | 9 ppm | NO ₂ ^b | 1 Hour | 0.18 ppm | 0.100 ppm | Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; contribution to atmospheric discoloration; increased visits to hospital for respiratory illnesses. | During combustion of fossil fuels, oxygen reacts with nitrogen to produce nitrogen oxides—NO _x (NO, NO ₂ , NO ₃ , N ₂ O, N ₂ O ₃ , N ₂ O ₄ , and N ₂ O ₅). NO _x is a precursor to ozone, PM ₁₀ , and PM _{2.5} formation. NO _x can react with compounds to form nitric acid and related small particles and result in PM-related health effects. |
| CO | 1 Hour | 20 ppm | 35 ppm | Ranges depend on exposure: slight headaches; nausea; aggravation of angina pectoris (chest pain) and other aspects of coronary heart disease; decreased exercise tolerance in persons with peripheral vascular disease and lung disease; impairment of central nervous system functions; possible increased risk to fetuses; death. | CO is a colorless, odorless, toxic gas. CO is somewhat soluble in water; therefore, rainfall and fog can suppress CO conditions. CO enters the body through the lungs, dissolves in the blood, replaces oxygen as an attachment to hemoglobin, and reduces available oxygen in the blood. | CO is produced by incomplete combustion of carbon-containing fuels (e.g., gasoline, diesel fuel, and biomass). Sources include motor vehicle exhaust, industrial processes (metals processing and chemical manufacturing), residential wood burning, and natural sources. | | | | | | | | | | | | | | | | |
| | 8 Hours | 9.0 ppm | 9 ppm | | | | NO ₂ ^b | 1 Hour | 0.18 ppm | 0.100 ppm | Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; contribution to atmospheric discoloration; increased visits to hospital for respiratory illnesses. | During combustion of fossil fuels, oxygen reacts with nitrogen to produce nitrogen oxides—NO _x (NO, NO ₂ , NO ₃ , N ₂ O, N ₂ O ₃ , N ₂ O ₄ , and N ₂ O ₅). NO _x is a precursor to ozone, PM ₁₀ , and PM _{2.5} formation. NO _x can react with compounds to form nitric acid and related small particles and result in PM-related health effects. | NO _x is produced in motor vehicle internal combustion engines and fossil fuel-fired electric utility and industrial boilers. NO ₂ forms quickly from NO _x emissions. NO ₂ concentrations near major roads can be 30 to 100 percent higher than those at monitoring stations. | Annual | 0.030 ppm | 0.053 ppm | | | | | | |
| NO ₂ ^b | 1 Hour | 0.18 ppm | 0.100 ppm | Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; contribution to atmospheric discoloration; increased visits to hospital for respiratory illnesses. | During combustion of fossil fuels, oxygen reacts with nitrogen to produce nitrogen oxides—NO _x (NO, NO ₂ , NO ₃ , N ₂ O, N ₂ O ₃ , N ₂ O ₄ , and N ₂ O ₅). NO _x is a precursor to ozone, PM ₁₀ , and PM _{2.5} formation. NO _x can react with compounds to form nitric acid and related small particles and result in PM-related health effects. | NO _x is produced in motor vehicle internal combustion engines and fossil fuel-fired electric utility and industrial boilers. NO ₂ forms quickly from NO _x emissions. NO ₂ concentrations near major roads can be 30 to 100 percent higher than those at monitoring stations. | | | | | | | | | | | | | | | | |
| | Annual | 0.030 ppm | 0.053 ppm | | | | | | | | | | | | | | | | | | | |

| Air Pollutant | Averaging Time | California Standard | Federal Standard | Most Relevant Effects from Pollutant Exposure | Properties | Sources |
|---|----------------|-----------------------------|-------------------------------|--|---|---|
| SO ₂ ^c | 1 Hour | 0.25 ppm | 0.075 ppm | Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO ₂ levels. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor. | SO ₂ is a colorless, pungent gas. At levels greater than 0.5 ppm, the gas has a strong odor like rotten eggs. Sulfur oxides (SO _x) include SO ₂ and sulfur trioxide. Sulfuric acid is formed from SO ₂ , which can lead to acid deposition and can harm natural resources and materials. Although SO ₂ concentrations have been reduced to levels well below State and federal standards, further reductions are desirable because SO ₂ is a precursor to sulfate and PM ₁₀ . | Human caused sources include fossil fuel combustion, mineral ore processing, and chemical manufacturing. Volcanic emissions are a natural source of SO ₂ . The gas can also be produced in the air by dimethyl sulfide and hydrogen sulfide. SO ₂ is removed from the air by dissolution in water, chemical reactions, and transfer to soils and ice caps. The SO ₂ levels in the State are well below the maximum standards. |
| | 3 Hours | — | 0.5 ppm | | | |
| | 24 Hours | 0.04 ppm | 0.14 (for certain areas) | | | |
| | Annual | — | 0.030 ppm (for certain areas) | | | |
| Particulate matter (PM ₁₀) | 24 hours | 50 µg/m ³ | 150 µg/m ³ | <ul style="list-style-type: none"> Short-term exposure (hours/days): irritation of the eyes, nose, throat; coughing; phlegm; chest tightness; shortness of breath; aggravate existing lung disease, causing asthma attacks and acute bronchitis; those with heart disease can suffer heart attacks and arrhythmias. Long-term exposure: reduced lung function; chronic bronchitis; changes in lung morphology; death. | Suspended particulate matter is a mixture of small particles that consist of dry solid fragments, droplets of water, or solid cores with liquid coatings. The particles vary in shape, size, and composition. PM ₁₀ refers to particulate matter that is between 2.5 and 10 microns in diameter, (1 micron is one-millionth of a meter). PM _{2.5} refers to particulate matter that is 2.5 microns or less in diameter, about one-thirtieth the size of the average human hair. | Stationary sources include fuel or wood combustion for electrical utilities, residential space heating, and industrial processes; construction and demolition; metals, minerals, and petrochemicals; wood products processing; mills and elevators used in agriculture; erosion from tilled lands; waste disposal, and recycling. Mobile or transportation-related sources are from vehicle exhaust and road dust. Secondary particles form from reactions in the atmosphere. |
| | Mean | 20 µg/m ³ | — | | | |
| Particulate matter (PM _{2.5}) | 24 Hours | — | 35 µg/m ³ | | | |
| | Annual | 12 µg/m ³ | 12 µg/m ³ | | | |
| Visibility-reducing particles | 8 Hours | See note below ^d | | | | |

| Air Pollutant | Averaging Time | California Standard | Federal Standard | Most Relevant Effects from Pollutant Exposure | Properties | Sources |
|-----------------------------|-------------------------|-----------------------|------------------------|--|--|---|
| Sulfates | 24 Hours | 25 µg/m ³ | — | Decrease in ventilatory function; aggravation of asthmatic symptoms; aggravation of cardiopulmonary disease; vegetation damage; degradation of visibility; and property damage. | The sulfate ion is a polyatomic anion with the empirical formula SO ₄ ²⁻ . Sulfates occur in combination with metal and/or hydrogen ions. Many sulfates are soluble in water. | Sulfates are particulates formed through the photochemical oxidation of SO ₂ . In California, the main source of sulfur compounds is combustion of gasoline and diesel fuel. |
| Lead ^e | 30 days | 1.5 µg/m ³ | — | Lead accumulates in bones, soft tissue, and blood and can affect the kidneys, liver, and nervous system. It can cause impairment of blood formation and nerve conduction, behavior disorders, mental retardation, neurological impairment, learning deficiencies, and low IQs. | Lead is a solid heavy metal that can exist in air pollution as an aerosol particle component. Leaded gasoline was used in motor vehicles until around 1970. Lead concentrations have not exceeded State or federal standards at any monitoring station since 1982. | Lead ore crushing, lead ore smelting, and battery manufacturing are currently the largest sources of lead in the atmosphere in the United States. Other sources include dust from soils contaminated with lead-based paint, solid waste disposal, and crustal physical weathering. |
| | Quarter | — | 1.5 µg/m ³ | | | |
| | Rolling 3-month average | — | 0.15 µg/m ³ | | | |
| Vinyl chloride ^e | 24 Hours | 0.01 ppm | — | Short-term exposure to high levels of vinyl chloride in the air causes central nervous system effects, such as dizziness, drowsiness, and headaches. Epidemiological studies of occupationally exposed workers have linked vinyl chloride exposure to development of a rare cancer, liver angiosarcoma, and have suggested a relationship between exposure and lung and brain cancers. | Vinyl chloride, or chloroethene, is a chlorinated hydrocarbon and a colorless gas with a mild, sweet odor. In 1990, the ARB identified vinyl chloride as a TAC and estimated a cancer unit risk factor. | Most vinyl chloride is used to make polyvinyl chloride plastic and vinyl products, including pipes, wire and cable coatings, and packaging materials. It can be formed when plastics containing these substances are left to decompose in solid waste landfills. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites. |
| Hydrogen sulfide | 1 Hour | 0.03 ppm | — | High levels of hydrogen sulfide can cause immediate respiratory arrest. It can irritate the eyes and respiratory tract and cause headache, nausea, vomiting, and cough. Long exposure can cause pulmonary edema. | Hydrogen sulfide (H ₂ S) is a flammable, colorless, poisonous gas that smells like rotten eggs. | Manure, storage tanks, ponds, anaerobic lagoons, and land application-sites are the primary sources of hydrogen sulfide. Anthropogenic sources include the combustion of sulfur containing fuels (oil and coal). |

| Air Pollutant | Averaging Time | California Standard | Federal Standard | Most Relevant Effects from Pollutant Exposure | Properties | Sources |
|---------------------------------|----------------|--|------------------|---|--|--|
| VOC | | There are no State or federal standards for VOCs because they are not classified as criteria pollutants. | | Although health-based standards have not been established for VOCs, health effects can occur from exposures to high concentrations because of interference with oxygen uptake. In general, concentrations of VOCs are suspected to cause eye, nose, and throat irritation; headaches; loss of coordination; nausea and damage to the liver, the kidneys, and the central nervous system. Many VOCs have been classified TACs. | Reactive organic gases (ROGs), or VOCs, are defined as any compound of carbon—excluding CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate—that participates in atmospheric photochemical reactions. Although there are slight differences in the definition of ROG and VOCs, the two terms are often used interchangeably. | Indoor sources of VOCs include paints, solvents, aerosol sprays, cleansers, tobacco smoke, etc. Outdoor sources of VOCs are from combustion and fuel evaporation. A reduction in VOC emissions reduces certain chemical reactions that contribute to the formulation of ozone. VOCs are transformed into organic aerosols in the atmosphere, which contribute to higher PM ₁₀ and lower visibility. |
| Diesel particulate matter (DPM) | | There are no ambient air quality standards for DPM. | | Some short-term (acute) effects of DPM exposure include eye, nose, throat, and lung irritation, coughs, headaches, lightheadedness, and nausea. Studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems. Human studies on the carcinogenicity of DPM demonstrate an increased risk of lung cancer, although the increased risk cannot be clearly attributed to diesel exhaust exposure. | DPM is a source of PM _{2.5} —diesel particles are typically 2.5 microns and smaller. Diesel exhaust is a complex mixture of thousands of particles and gases that is produced when an engine burns diesel fuel. Organic compounds account for 80 percent of the total particulate matter mass, which consists of compounds such as hydrocarbons and their derivatives, and polycyclic aromatic hydrocarbons and their derivatives. Fifteen polycyclic aromatic hydrocarbons are confirmed carcinogens, several which are found in diesel exhaust. | Diesel exhaust is a major source of ambient particulate matter pollution in urban environments. Typically, the main source of DPM is from combustion of diesel fuel in diesel-powered engines. Such engines are in on-road vehicles such as diesel trucks, off-road construction vehicles, diesel electrical generators, and various pieces of stationary construction equipment. |

| Air Pollutant | Averaging Time | California Standard | Federal Standard | Most Relevant Effects from Pollutant Exposure | Properties | Sources |
|--|----------------|---------------------|------------------|---|------------|---------|
| <p>Notes:</p> <p>ppm = parts per million (concentration) $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter Annual = Annual Arithmetic Mean 30-day = 30-day average Quarter = Calendar quarter</p> <p>^a Federal standard refers to the primary NAAQS, or the levels of air quality necessary, with an adequate margin of safety to protect the public health. All standards listed are primary standards except for 3-Hour SO₂, which is a secondary standard. A secondary standard is the level of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.</p> <p>^b To attain the 1-hour NO₂ national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb) (0.100 ppm).</p> <p>^c On June 2, 2010, a new 1-hour SO₂ standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.</p> <p>^d Visibility-reducing particles: In 1989, the ARB converted both the general Statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are “extinction of 0.23 per kilometer” and “extinction of 0.07 per kilometer” for the Statewide and Lake Tahoe Air Basin standards, respectively.</p> <p>^e The ARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.</p> <p>^f The EPA Administrator approved a revised 8-hour ozone standard of 0.07 ppb on October 1, 2015. The new standard went into effect 60 days after publication of the Final Rule in the Federal Register. The Final Rule was published in the Federal Register on October 26, 2015, and became effective on December 28, 2015.</p> <p>^g The official level of the 1-hour NO₂ standard is 100 ppb, equal to 0.100 ppm, which is shown here for the purpose of clearer comparison to the other standards.</p> <p>Source of effects, properties, and sources: United States Environmental Protection Agency (EPA). 2003. Particle Pollution and your Health. EPA-452/F-03-001. September. Website: https://www.airnow.gov/sites/default/files/2018-03/pm-color.pdf. Accessed March 14, 2022.</p> <p>United States Environmental Protection Agency (EPA). 2009. Ozone and your Health EPA-456/F-09-001. Website: https://www.airnow.gov/sites/default/files/2020-02/ozone-c.pdf. Accessed March 14, 2022.</p> <p>United States Environmental Protection Agency (EPA). 2009. Fact Sheet, Proposed Revisions to the National Ambient Air Quality Standards for Nitrogen Dioxide. July. Website: https://www.gpo.gov/fdsys/pkg/FR-2009-07-15/pdf/E9-15944.pdf. Accessed March 14, 2022.</p> <p>United States Environmental Protection Agency (EPA). 2010. Technology Transfer Network, Air Toxics Website. Page updated December 21, 2018. Health Effects Notebook for Hazardous Air Pollutants. December. Website: https://www.epa.gov/haps/health-effects-notebook-hazardous-air-pollutants. Accessed March 14, 2022.</p> <p>National Toxicology Program. 2011. Report on Carcinogens, Twelfth Edition; U.S. Department of Health and Human Services, Public Health Service. June 10. Benzene. Website: http://ntp.niehs.nih.gov/ntp/roc/twelfth/profiles/Benzene.pdf. Accessed March 14, 2022.</p> <p>National Toxicology Program. 2016. Report on Carcinogens, Fourteenth Edition; U.S. Department of Health and Human Services, Public Health Service. Diesel Exhaust Particles. Website: https://ntp.niehs.nih.gov/ntp/roc/content/profiles/dieselexhaustparticulates.pdf. Accessed March 14, 2022.</p> <p>California Environmental Protection Agency (Cal/EPA). 2002. Office of Environmental Health Hazard Assessment. Health Effects of Diesel Exhaust. Website: https://oehha.ca.gov/media/downloads/calenviroscreen/indicators/diesel4-02.pdf. Accessed March 14, 2022.</p> <p>California Air Resources Board (ARB). 2009. Vinyl Chloride. Website: https://ww2.arb.ca.gov/resources/vinyl-chloride-and-health. Accessed March 14, 2022.</p> <p>United States Environmental Protection Agency (EPA). 2017. Indoor Air Quality. Sources of Indoor Air Pollution—Organic Gases (Volatile Organic Compounds—VOCs). November. Website: www.epa.gov/iaq/voc.html. Accessed March 14, 2022.</p> <p>National Toxicology Program. 2011. Report on Carcinogens, Twelfth Edition; U.S. Department of Health and Human Services, Public Health Service. Diesel Exhaust Particles. Website: https://oehha.ca.gov/media/downloads/proposition-65/cnr/comments/12throc-complete.pdf. Accessed March 14, 2022.</p> <p>Source of standards: South Coast Air Quality Management District (SCAQMD). 2018. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin. February. Website http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naqs-qaqs-feb2016.pdf?sfvrsn=2. Accessed March 14, 2022.</p> | | | | | | |

Several pollutants listed in Table 1 are not addressed in this analysis. An analysis of lead is not included in this report because the proposed project would not generate a new source of lead emissions. Visibility-reducing particles are not explicitly addressed in this analysis because particulate matter is addressed under the analysis for PM₁₀ and PM_{2.5}. No components of the proposed project would result in vinyl chloride or hydrogen sulfide emissions in any substantial quantity; therefore, these compounds are not further evaluated in this report.

Toxic Air Contaminants Health Effects

A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. There are no ambient air quality standards for TAC emissions. TACs are regulated in terms of health risks to individuals and populations exposed to the pollutants. The 1990 Clean Air Act Amendments significantly expanded the EPA's authority to regulate HAPs. Section 112 of the Clean Air Act lists 187 HAPs to be regulated by source category. Authority to regulate these pollutants was delegated to individual states. The ARB and local air districts regulate TACs and HAPs in California.

Several studies indicate that DPM poses the greatest health risk among the TACs listed above. A 10-year research program demonstrated that DPM from diesel-fueled engines is a human carcinogen and that chronic (long-term) inhalation exposure to DPM poses a chronic health risk.⁷ In addition to increasing the risk of lung cancer, exposure to diesel exhaust can have other health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. Diesel exhaust is a major source of fine particulate pollution as well, and studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems.

DPM differs from other TACs in that it is not a single substance, but a complex mixture of hundreds of substances. Although DPM is emitted by diesel-fueled, internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. However, unlike the other TACs, no ambient monitoring data are available for DPM because no routine measurement method currently exists. The ARB has made preliminary concentration estimates based on a DPM exposure method. This method uses the ARB emissions inventory's PM₁₀ database, ambient PM₁₀ monitoring data, and the results from several studies to estimate concentrations of DPM.

Asbestos

Asbestos is the name given to several naturally occurring fibrous silicate minerals that have been mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The three most common types of asbestos are chrysotile, amosite, and crocidolite. Chrysotile, also known as white asbestos, is the most common type of asbestos found in buildings.

⁷ California Air Resources Board (ARB). 1998. The Report on Diesel Exhaust Website: <https://ww2.arb.ca.gov/sites/default/files/classic/toxics/dieseltac/de-fnds.htm>. Accessed March 14, 2022.

Chrysotile makes up approximately 90 to 95 percent of all asbestos contained in buildings in the United States. Exposure to asbestos is a health threat; exposure to asbestos fibers may result in health issues such as lung cancer, mesothelioma (a rare cancer of the thin membranes lining the lungs, chest, and abdominal cavity), and asbestosis (a non-cancerous lung disease that causes scarring of the lungs). Exposure to asbestos can occur during demolition or remodeling of buildings that were constructed prior to the 1977 ban on asbestos for use in buildings. Exposure to naturally occurring asbestos can occur during soil-disturbing activities in areas with deposits present. No naturally occurring asbestos is located near the project site.⁸

Valley Fever

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

Much of California is considered an endemic area for Valley Fever. In 2015, there were 36 cases of Valley Fever in San Bernardino County, or 1.7 cases per 100,000 people. Nearly 75 percent of people who get Valley Fever miss work or school for an average of two weeks. More than 40 percent of people who get Valley Fever need to be hospitalized. The number of Valley Fever cases reported nationally has more than quadrupled in the past decade. There were over 11,000 reported cases in 2015, and the Center for Disease Control and Prevention (CDC) estimates that an additional 150,000 cases go undiagnosed each year. In 2019, there were 18,407 cases of Valley Fever reported to the CDC, with about 28 percent of all cases reported in California.⁹

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

1. Rodent burrows (often a favorable site for *C. immitis*, perhaps because temperatures are more moderate and humidity higher than on the ground surface).
2. Old (prehistoric) Native American campsites near fire pits.
3. Areas with sparse vegetation and alkaline soils.
4. Areas with high salinity soils.
5. Areas adjacent to arroyos (where residual moisture may be available).
6. Packrat middens.

⁸ California Department of Conservation, Division of Mine Reclamation. 2000. A General Location Guide for Ultramafic Rocks in California—Areas More likely to Contain Naturally Occurring Asbestos. August. Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/asbestos/ofr_2000-019.pdf. Accessed November 30, 2021.

⁹ Center for Disease Control and Prevention. 2021. Valley Fever (Coccidioidomycosis) Statistics. Website: <https://www.cdc.gov/fungal/diseases/coccidioidomycosis/statistics.html>. Accessed December 8, 2021.

7. Upper 30 centimeters of the soil horizon, especially in virgin undisturbed soils.
8. Sandy well aerated soil with relatively high water-holding capacities.

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

1. Cultivated fields.
2. Heavily vegetated areas (e.g., grassy lawns).
3. Higher elevations (above 7,000 feet).
4. Areas where commercial fertilizers (e.g., ammonium sulfate) have been applied.
5. Areas that are continually wet.
6. Paved (asphalt or concrete) or oiled areas.
7. Soils containing abundant microorganisms.
8. Heavily urbanized areas where there is little undisturbed virgin soil.¹⁰

The project site currently contains a barn structure and several outbuildings. Valley Fever would not be a concern to the proposed project because the majority of the project site is heavily vegetated with grasses and shrubbery and is located in a heavily urbanized area of Brentwood where there is little undisturbed soil. Thus, the project site does not contain favorable conditions for *C. immitis*.

2.3 - Existing Air Quality Conditions

The local air quality can be evaluated by reviewing relevant air pollution concentrations near the project area. Table 2 summarizes published monitoring data from 2018 through 2020. The table displays data from the Bethel Island Road Air Monitoring Station at 5551 Bethel Island Road (located approximately 3.8 miles northeast of the project site), which is the closest monitoring station to the project site with data available. The data shows that during the past few years, the project area has exceeded the standards for ozone (State and national), and PM₁₀ (national). The data in the table reflects the concentration of the pollutants in the air, measured using air monitoring equipment. This differs from emissions, which are calculations of a pollutant being emitted over a certain period. No recent monitoring data for Contra Costa County or the Air Basin was available for CO, PM_{2.5}, or SO₂. Generally, no monitoring is conducted for pollutants that are no longer likely to exceed ambient air quality standards.

Table 2: Air Quality Monitoring Summary

| Air Pollutant | Averaging Time | Item | 2018 | 2019 | 2020 |
|--------------------|----------------|----------------------------------|--------------|--------------|--------------|
| Ozone ¹ | 1 Hour | Max 1 Hour (ppm) | 0.093 | 0.082 | 0.107 |
| | | Days > State Standard (0.09 ppm) | 0 | 0 | 1 |
| | 8 Hour | Max 8 Hour (ppm) | 0.078 | 0.072 | 0.086 |
| | | Days > State Standard (0.07 ppm) | 1 | 1 | 2 |

¹⁰ United States Geological Survey (USGS). 2000. Operational Guidelines (Version 1.0) for Geological Fieldwork in Areas Endemic for Coccidioidomycosis (Valley Fever), 2000, Open-File Report 2000-348. Website: <https://pubs.usgs.gov/of/2000/0348/pdf/of00-348.pdf>. Accessed March 8, 2022.

| Air Pollutant | Averaging Time | Item | 2018 | 2019 | 2020 |
|---|----------------|---|--------------|-------------|----------|
| | | Days > National Standard (0.075 ppm) | 1 | 1 | 2 |
| Carbon monoxide (CO) | 8 Hour | Max 8 Hour (ppm) | ND | ND | ND |
| | | Days > State Standard (9.0 ppm) | ND | ND | ND |
| | | Days > National Standard (9 ppm) | ND | ND | ND |
| Nitrogen dioxide (NO ₂) ¹ | Annual | Annual Average (ppm) | 0.042 | 0.029 | 0.029 |
| | 1 Hour | Max 1 Hour (ppm) | 0.040 | 0.040 | 0.030 |
| | | Days > State Standard (0.18 ppm) | 0 | 0 | 0 |
| Sulfur dioxide (SO ₂) | Annual | Annual Average (ppm) | ND | ND | ND |
| | 24 Hour | Max 24 Hour (ppm) | ND | ND | ND |
| | | Days > State Standard (0.04 ppm) | ND | ND | ND |
| Inhalable coarse particles (PM ₁₀) ¹ | Annual | Annual Average (µg/m ³) | 151.0 | 57.0 | 40.0 |
| | 24 Hour | 24 Hour (µg/m ³) | ND | 55.0 | ND |
| | | Days > State Standard (50 µg/m ³) | ND | 26.2 | ND |
| | | Days > National Standard (150 µg/m ³) | ND | 0 | ND |
| Fine particulate matter (PM _{2.5}) ¹ | Annual | Annual Average (µg/m ³) | ND | ND | ND |
| | 24 Hour | 24 Hour (µg/m ³) | ND | ND | ND |
| | | Days > National Standard (35 µg/m ³) | ND | ND | ND |
| <p>Notes: > = exceed µg/m³ = micrograms per cubic meter Bold = exceedance max = maximum National Standard = National Ambient Air Quality Standard ND = no data ppm = parts per million State Standard = California Ambient Air Quality Standard ¹ Bethel Island Road at 5551 Bethel Island Road Sources: California Air Resources Board (ARB). 2020. Trends Summary. Website: https://www.arb.ca.gov/adam/trends/trends1.php. Accessed December 8, 2021. California Air Resources Board (ARB). 2020. Top Four Summary. Website: https://www.arb.ca.gov/adam/topfour/topfour1.php. Accessed December 8, 2021.</p> | | | | | |

The health impacts of the various air pollutants of concern can be presented in several ways. The clearest comparison is to the State and federal ozone standards. If concentrations are below the standard, it is safe to say that no health impact would occur to anyone. When concentrations exceed the standard, impacts will vary based on the amount by which the standard is exceeded. The EPA developed the Air Quality Index (AQI) as an easy-to-understand measure of health impacts compared with concentrations in the air. Table 3 provides a description of the health impacts of ozone at different concentrations.

Table 3: Air Quality Index and Health Effects from Ozone

| Air Quality Index/ 8-hour Ozone Concentration | Health Effects Description |
|---|---|
| AQI 100—Moderate | Sensitive Groups: Children and people with asthma are the groups most at risk. |
| Concentration 70-75 ppb | <p>Health Effects Statements: Unusually sensitive individuals may experience respiratory symptoms.</p> <p>Cautionary Statements: Unusually sensitive people should consider limiting prolonged outdoor exertion.</p> |
| AQI 150—Unhealthy for Sensitive Groups | Sensitive Groups: Children and people with asthma are the groups most at risk. |
| Concentration 85-95 ppb | <p>Health Effects Statements: Increasing likelihood of respiratory symptoms and breathing discomfort in active children and adults and people with respiratory disease, such as asthma.</p> <p>Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should limit prolonged outdoor exertion.</p> |
| AQI 200—Unhealthy | Sensitive Groups: Children and people with asthma are the groups most at risk. |
| Concentration 105-115 ppb | <p>Health Effects Statements: Greater likelihood of respiratory symptoms and breathing difficulty in active children and adults and people with respiratory disease, such as asthma; possible respiratory effects in general population.</p> <p>Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should avoid prolonged outdoor exertion; everyone else, especially children, should limit prolonged outdoor exertion.</p> |
| AQI 210—Very Unhealthy | Sensitive Groups: Children and people with asthma are the groups most at risk. |
| Concentration 114-139 ppb | <p>Health Effects Statements: Increasingly severe symptoms and impaired breathing likely in active children and adults and people with respiratory disease, such as asthma; increasing likelihood of respiratory effects in general population.</p> <p>Cautionary Statements: Active children and adults, and people with respiratory disease, such as asthma, should avoid all outdoor exertion; everyone else, especially children, should limit outdoor exertion.</p> |
| <p>Notes: AQI = Air Quality Index ppb = parts per billion Source: Air Now. 2015. AQI Calculator: AQI to Concentration. Website: https://www.airnow.gov/aqi/aqi-calculator/. Accessed March 14, 2022.</p> | |

Based on the AQI scale for the 8-hour ozone standard, Brentwood experienced no days in the last three years that would be categorized as unhealthy (AQI 200), and one day was categorized as unhealthy for sensitive groups (AQI 150) or moderate (AQI 100) as measured at the Bethel Island Road Station. The highest 1-hour maximum reading was 107 parts per billion (ppb) in 2020 compared with the 115-ppb cutoff point for unhealthy (AQI 200).

2.3.1 - Attainment Status

The EPA and the ARB designate air basins where ambient air quality standards are exceeded as “nonattainment” areas. If standards are met, the area is designated as an “attainment” area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered “unclassified.” National nonattainment areas are further designated as marginal, moderate, serious, severe, or extreme as a function of deviation from standards.

Each standard has a different definition, or “form” of what constitutes attainment, based on specific air quality statistics. For example, the federal 8-hour CO standard is not to be exceeded more than once per year; therefore, an area is in attainment of the CO standard if no more than one 8-hour ambient air monitoring value exceeds the threshold per year. In contrast, the federal annual PM_{2.5} standard is met if the 3-year average of the annual average PM_{2.5} concentration is less than or equal to the standard.

The current attainment designations for the Air Basin are shown in Table 4. The Air Basin is designated as nonattainment for the State ozone, PM₁₀, and PM_{2.5}, standards, nonattainment for the national ozone and PM_{2.5} standards, and unclassified for the national PM₁₀ standard.

Table 4: San Francisco Bay Area Air Basin Attainment Status

| Pollutant | State Status | National Status |
|-------------------------------|---------------|----------------------------|
| Ozone | Nonattainment | Nonattainment |
| CO | Attainment | Attainment |
| NO ₂ | Attainment | Attainment |
| SO ₂ | Attainment | Attainment |
| PM ₁₀ | Nonattainment | Unclassified |
| PM _{2.5} | Nonattainment | Unclassified/Nonattainment |
| Sulfates | Attainment | N/A |
| Hydrogen Sulfates | Unclassified | N/A |
| Visibility-reducing Particles | Unclassified | N/A |
| Lead | N/A | Attainment |

Source: Bay Area Air Quality Management District (BAAQMD). 2017. Air Quality Standards and Attainment Status. January. Website: <http://www.baaqmd.gov/research-and-data/air-quality-standards-and-attainment-status>. Accessed December 2021.

2.4 - Air Quality Plans and Regulations

Air pollutants are regulated at the national, state, and air basin or county level; each agency has a different level of regulatory responsibility. The EPA regulates at the national level, and the ARB regulates at the State level. The BAAQMD regulates air quality at the regional level. The BAAQMD

includes Contra Costa County in its planning area, and also includes portions of Sonoma and Solano Counties, and all of Marin, San Francisco, San Mateo, Santa Clara, Alameda, and Napa counties.

The EPA is responsible for national and interstate air pollution issues and policies. The EPA sets national vehicle and stationary source emission standards, oversees approval of all State Implementation Plans (SIPs), provides research and guidance for air pollution programs, and sets NAAQS, also known as the federal standards, described earlier.

A SIP is a document prepared by each state describing existing air quality conditions and measures that will be followed to attain and maintain federal air standards. The SIP for the State of California is administered by the ARB, which has overall responsibility for Statewide air quality maintenance and air pollution prevention. California's SIP incorporates individual federal attainment plans for regional air districts—an air district prepares their federal attainment plan, which is sent to the ARB to be approved and incorporated into the California SIP. Federal attainment plans include the technical foundation for understanding air quality (e.g., emission inventories and air quality monitoring), control measures and strategies, and enforcement mechanisms.

Areas designated as nonattainment must develop air quality plans and regulations to achieve standards by specified dates, depending on the severity of the exceedances. For much of the country, implementation of federal motor vehicle standards and compliance with federal permitting requirements for industrial sources are adequate to attain and maintain air quality standards on schedule. For many areas of California, however, additional State and local regulations are required to achieve the standards. Regulations adopted by California are described below.

2.4.1 - California Regulations

Low Emission Vehicle Program

The ARB first adopted Low Emission Vehicle (LEV) program standards in 1990. These first LEV standards ran from 1994 through 2003. LEV II regulations, running from 2004 through 2010, represented continuing progress in emission reductions. As the State's passenger vehicle fleet continues to grow and more sport utility vehicles and pickup trucks are used as passenger cars rather than work vehicles, the more stringent LEV II standards were adopted to provide reductions necessary for California to meet federally mandated clean air goals outlined in the 1994 SIP. In 2012, ARB adopted the LEV III amendments to California's LEV regulations. These amendments, also known as the Advanced Clean Cars Program, include more stringent emission standards for model years 2017 through 2025 for both criteria pollutants and GHG emissions for new passenger vehicles.¹¹

On-Road Heavy Duty Vehicle Program

The ARB has adopted standards for emissions from various types of new on-road heavy duty vehicles. Section 1956.8, Title 13, of the California Code of Regulations contains California's emission standards for on-road heavy duty engines and vehicles, and test procedures. The ARB has also adopted programs to reduce emissions from in-use heavy duty vehicles including the Heavy Duty

¹¹ California Air Resources Board (ARB). 2012. Low Emission Vehicle Program. Website: <http://www.arb.ca.gov/msprog/levprog/levprog.htm>. Accessed March 8, 2022.

Diesel Vehicle Idling Reduction Program, the Heavy Duty Diesel In-Use Compliance Program, the Public Bus Fleet Rule and Engine Standards, and the School Bus Program and others.¹²

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

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

The latest amendments to the Truck and Bus regulation became effective on December 31, 2014. The amended regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses met particulate matter (PM) filter requirements beginning January 1, 2012. Mandatory replacement of lighter and older heavier trucks began January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent.

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

California Air Resources Board Airborne Toxic Control Measure for Asbestos

In July 2001, the ARB approved an Airborne Toxic Control Measure (ATCM) for construction, grading, quarrying, and surface mining operations to minimize emissions of naturally occurring asbestos. The regulation requires application of Best Management Practices (BMPs) to control fugitive dust in areas known to have naturally occurring asbestos and requires notification to the local air district prior to commencement of ground-disturbing activities. The measure establishes specific testing, notification and engineering controls prior to grading, quarrying, or surface mining in construction zones where naturally occurring asbestos is located on projects of any size. There are additional notification and engineering controls at work sites larger than 1 acre. These projects require the submittal of a "Dust Mitigation Plan" and approval by the ARB prior to the start of a project.

Construction sometimes requires the demolition of existing buildings where construction occurs; the project site includes structures, including one single-family residence with associated outbuildings,

¹² California Air Resources Board (ARB). 2013. The California Almanac of Air Quality and Emissions—2013 Edition. Website: <http://www.arb.ca.gov/aqd/almanac/almanac13/almanac13.htm>. Accessed March 14, 2022.

which would be demolished as part of the proposed project. In addition, asbestos is also found in a natural state, known as naturally occurring asbestos. Exposure and disturbance of rock and soil that naturally contain asbestos can result in the release of fibers into the air and consequent exposure to the public. Asbestos most commonly occurs in ultramafic rock that has undergone partial or complete alteration to serpentine rock (serpentinite) and often contains chrysotile asbestos. In addition, another form of asbestos, tremolite, can be found associated with ultramafic rock, particularly near faults. Sources of asbestos emissions include unpaved roads or driveways surfaced with ultramafic rock, construction activities in ultramafic rock deposits, or rock quarrying activities where ultramafic rock is present.

Areas are subject to the regulation if they are identified on maps published by the Department of Conservation as ultramafic rock units or if the Air Pollution Control Officer or owner/operator has knowledge of the presence of ultramafic rock, serpentine, or naturally occurring asbestos on the site. The measure also applies if ultramafic rock, serpentine, or asbestos is discovered during any operation or activity. Review of the Department of Conservation maps indicates that no ultramafic rock has been found near the project site.¹³

Diesel Risk Reduction Plan

The ARB's Diesel Risk Reduction Plan has led to the adoption of new State regulatory standards for all new on-road, off-road, and stationary diesel-fueled engines and vehicles to reduce DPM emissions by about 90 percent overall from year 2000 levels. The projected emission benefits associated with the full implementation of this plan, including federal measures, are reductions in DPM emissions and associated cancer risks of 75 percent by 2010, and 85 percent by 2020.¹⁴

2.4.2 - Bay Area Air Quality Management District

BAAQMD CEQA Air Quality Guidelines

The BAAQMD is the primary agency responsible for ensuring that air quality standards (NAAQS and CAAQS) are attained and maintained in the Air Basin through a comprehensive program of planning, regulation, enforcement, technical innovation, and promotion of the understanding of air quality issues. The BAAQMD prepares plans to attain ambient air quality standards in the Air Basin. The BAAQMD prepares ozone attainment plans for the national ozone standard, Clean Air Plans for the California standard, and PM plans to fulfill federal air quality planning requirements. The BAAQMD also inspects stationary sources of air pollution; responds to citizen complaints; monitors ambient air quality and meteorological conditions; and implements programs and regulations required by the Clean Air Act, the Clean Air Act Amendments of 1990, and the CCAA.

The BAAQMD developed quantitative thresholds of significance for its CEQA Guidelines in 2010, which were also included in its updated subsequent guidelines. BAAQMD's adoption of the 2010 thresholds of significance was later challenged in court. In an opinion issued on December 17, 2015,

¹³ Department of Conservation. 2000. A General Location Guide for Ultramafic Rocks 97 Del Norte Modoc in California - Areas More Likely to Contain 5 Siskiyou 101 Naturally Occurring Asbestos. Website: https://ww2.arb.ca.gov/sites/default/files/classic/toxics/asbestos/ofr_2000-019.pdf. Accessed November 30, 2021.

¹⁴ California Air Resources Board (ARB). 2000. Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-fueled Engines and Vehicles. Website: <https://ww2.arb.ca.gov/our-work/programs/diesel-risk-reduction-plan>. Accessed March 8, 2022.

related to the BAAQMD CEQA Guidelines, the California Supreme Court held that CEQA does not generally require an analysis of the impacts of locating development in areas subject to environmental hazards unless the proposed project would exacerbate existing environmental hazards. The Supreme Court also found that CEQA requires the analysis of exposing people to environmental hazards in specific circumstances, including the location of development near airports, schools near sources of toxic contamination, and certain exemptions for infill and workforce housing. The Supreme Court also held that public agencies remain free to voluntarily conduct this analysis not required by CEQA for their own public projects (*CBIA v. BAAQMD* [2016] 2 Cal. App. 5th 1067, 1083).

In view of the Supreme Court's opinion, the BAAQMD published a new version of its CEQA Guidelines in May 2017. The BAAQMD CEQA Guidelines state that local agencies may rely on thresholds designed to reflect the impact of locating development near areas of toxic air contamination where such an analysis is required by CEQA or where the agency has determined that such an analysis would assist in making a decision about a project. However, the thresholds are not mandatory and agencies should apply them only after determining that they reflect an appropriate measure of a project's impacts. BAAQMD's CEQA Guidelines for implementation of the thresholds are for informational purposes only, to assist local agencies.

Clean Air Plan

The BAAQMD is primarily responsible for assuring that the NAAQS and CAAQS are attained and maintained in the Air Basin. Contra Costa County, and the Bay Area as a whole, is classified as a nonattainment area for the 8-hour ozone and PM_{2.5} NAAQS and nonattainment for the ozone, PM₁₀, and PM_{2.5} CAAQS. The County is either in attainment or unclassified for other pollutants.

Regional Air Quality Management Districts (AQMDs), such as the BAAQMD, must prepare air quality plans specifying how State air quality standards would be met. The BAAQMD's most recently adopted Air Quality Plan (AQP) is the 2017 Clean Air Plan: Spare the Air, Cool the Climate. The 2017 Clean Air Plan focuses on two closely related BAAQMD goals, protecting public health and protecting the climate. To protect public health, the 2017 Clean Air Plan describes how the BAAQMD will continue its progress toward attaining State and federal air quality standards and eliminating health risk disparities from exposure to air pollution among Bay Area communities. To that end, the 2017 Clean Air Plan includes a wide range of control measures designed to decrease emissions of the air pollutants that are most harmful to Bay Area residents, such as particulate matter, ozone, and TACs. To protect the climate, the 2017 Clean Air Plan includes control measures intended to reduce GHG emissions by reducing fossil fuel combustion.

The Bay Area Clean Air Plan addresses four categories of pollutants: ground level ozone and its key precursors, ROG and NO_x; PM, primarily PM_{2.5}, and precursors to secondary PM_{2.5}; air toxics; and GHGs. The control measures are categorized based on the economic sector framework including stationary sources, transportation, energy, buildings, agriculture, natural and working lands, waste management, and water measures.

BAAQMD Regulations

Regulation 2, Rule 5 (New Source Review Permitting)

The BAAQMD regulates backup emergency generators, fire pumps, and other sources of TACs through its New Source Review (Regulation 2, Rule 5) permitting process.¹⁵ Although emergency generators are intended for use only during periods of power outages, monthly testing of each generator is required; however, the BAAQMD limits testing to no more than 50 hours per year. Each emergency generator installed is assumed to meet a minimum of Tier 2 emission standards (before control measures). As part of the permitting process, the BAAQMD limits the excess cancer risk from any facility to no more than 10 per 1-million-population for any permits that are applied for within a 2-year period and would require any source that would result in an excess cancer risk greater than 1 per 1 million to install Best Available Control Technology (BACT) for toxics.

Regulation 8, Rule 3 (Architectural Coatings)

This rule governs the manufacture, distribution, and sale of architectural coatings and limits the reactive organic gas (ROG) content in paints and paint solvents. Although this rule does not directly apply to the proposed project, it does dictate the ROG content of paint available for use during the construction.

Regulation 8, Rule 15 (Emulsified and Liquid Asphalts)

Although this rule does not directly apply to the proposed project, it does dictate the ROG content of asphalt available for use during the construction through regulating the sale and use of asphalt and limits the ROG content in asphalt.

Regulation 1, Rule 301 (Odorous Emissions)

The BAAQMD is responsible for investigating and controlling odor complaints in the Bay Area. The agency enforces odor control by helping the public to document a public nuisance. Upon receipt of a complaint, the BAAQMD sends an investigator to interview the complainant and to locate the odor source if possible. The BAAQMD typically brings a public nuisance court action when there are a substantial number of confirmed odor events within a 24-hour period. An odor source with five or more confirmed complaints per year, averaged over 3 years is considered to have a substantial effect on receptors.

Several BAAQMD regulations and rules apply to odorous emissions. Regulation 1, Rule 301 is the nuisance provision that states that sources cannot emit air contaminants that cause nuisance to a number of persons. Regulation 7 specifies limits for the discharge of odorous substances where the BAAQMD receives complaints from 10 or more complainants within a 90-day period. Among other things, Regulation 7 precludes discharge of an odorous substance that causes the ambient air at or beyond the property line to be odorous after dilution with four parts of odor-free air, and specifies maximum limits on the emission of certain odorous compounds.

¹⁵ Bay Area Air Quality Management District (BAAQMD). 2016. NSR [New Source Review] Permitting Guidance. Website: <http://www.baaqmd.gov/permits/permitting-manuals/nsr-permitting-guidance>. Accessed March 14, 2022.

2.4.3 - Local

City of Brentwood General Plan

The City of Brentwood adopted their General Plan in 2014 with the following measures adopted at that time or added by amendments:¹⁶

Air Quality Measures

Conservation and Open Space (COS)

Goal COS 8 Reduce air pollutants and greenhouse gas emissions

Policies

- Policy COS 8-1** Improve air quality through continuing to require a development pattern that focuses growth in and around existing urbanized areas, locating new housing near places of employment, encouraging alternative modes of transportation, and requiring projects to mitigate significant air quality impacts.
- Policy COS 8-2** Minimize exposure of sensitive receptors to concentrations of air pollutant emissions and toxic air contaminants.
- Policy COS 8-3** Require discretionary projects involving sensitive receptors such as children, the elderly, or people with illnesses that are proposed within 500 feet of the State Route 4 corridor to include an analysis of mobile source toxic air contaminant health risks. The analysis, if necessary, shall identify feasible mitigation measures to reduce health risks to acceptable levels.
- Policy COS 8-4** Encourage new development or significant remodels to install fireplaces, wood stoves, and/or heaters which meet BAAQMD standards.
- Policy COS 8-5** Continue to require all construction projects and ground-disturbing activities to implement BAAQMD dust control and abatement measures.
- Policy COS 8-9** Preserve, protect, and enhance, as appropriate, the City’s carbon sequestration resources, also referred to as “carbon sinks,” to improve air quality and reduce net carbon emissions.
- Policy COS 8-10** Encourage public transit, ridesharing and van pooling, shortened and combined motor vehicle trips to work and services, use of bicycles, and walking. Minimize single passenger motor vehicle use.

Actions in Support of Goal COS 8

- COS 8a** Review all new industrial and commercial development projects for potential air quality impacts to residences and other sensitive receptors. The City shall ensure

¹⁶ City of Brentwood. 2014. City of Brentwood General Plan. Website: <https://www.brentwoodca.gov/civicax/filebank/blobdload.aspx?BlobID=52464>. Accessed November 30, 2021.

that mitigation measures and best management practices are implemented to reduce significant emissions of criteria pollutants.

- COS 8b** Review development, infrastructure, and planning projects for consistency with BAAQMD requirements during the CEQA review process. Require project applicants to prepare air quality analyses to address BAAQMD and General Plan requirements, which include analysis and identification of:
- Air pollutant emissions associated with the project during construction, project operation, and cumulative conditions;
 - Potential exposure of sensitive receptors to toxic air contaminants;
 - Significant air quality impacts associated with the project for construction, project operation, and cumulative conditions; and
 - Mitigation measures to reduce significant impacts to less than significant or the maximum extent feasible where impacts cannot be mitigated to less than significant.
- COS 8d** Work with Contra Costa County and the Bay Area Air Quality Management District to implement programs aimed at improving regional air quality.
- COS 8e** Adequate buffers between new industrial uses and sensitive receptors shall be required to avoid potential air quality and nuisance impacts.
- COS 8f** Provide a conservation page (or similar page) on the City’s website that provides links to resource agencies (i.e., ARB, BAAQMD, EPA, etc.) and provides information regarding local and regional conservation and environmental programs, to the extent that the City has readily available information, including methods for pollution prevention such as reduced air pollutant and greenhouse gas emissions through use of alternative forms of transportation (i.e., bicycling, pedestrian, transit), through reducing wood-burning activities using EPA-certified wood-burning devices, etc.

SECTION 3: CLIMATE CHANGE SETTING

3.1 - Climate Change

Climate change is a change in the average weather of the Earth that is measured by alterations in wind patterns, storms, precipitation, and temperature. These changes are assessed using historical records of temperature changes occurring in the past, such as during previous ice ages. Many of the concerns regarding climate change use this data to extrapolate a level of statistical significance specifically focusing on temperature records from the last 150 years (the Industrial Age) that differ from previous climate changes in rate and magnitude.

The United Nations Intergovernmental Panel on Climate Change (IPCC) constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. In its Fourth Assessment Report, the IPCC predicted that the global mean temperature changes from 1990 to 2100, given six scenarios, could range from 1.1°C (degrees Celsius) to 6.4°C. Regardless of analytical methodology, global average temperatures and sea levels are expected to rise under all scenarios.¹⁷ The report also concluded that “[w]arming of the climate system is unequivocal,” and that “[m]ost of the observed increase in global average temperatures since the mid-20th century is very likely due to the observed increase in anthropogenic greenhouse gas concentrations.”

An individual project cannot generate enough GHG emissions to effect a discernible change in global climate. However, the proposed project participates in the potential for global climate change by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on global climate change.

3.1.1 - Consequences of Climate Change in California

In California, climate change may result in consequences such as the following.^{18,19}

- **A reduction in the quality and supply of water from the Sierra snowpack.** If heat-trapping emissions continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90 percent. This can lead to challenges in securing adequate water supplies. It can also lead to a potential reduction in hydropower.

¹⁷ Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Website: www.ipcc.ch/publications_and_data/ar4/wg1/en/contents.html. Accessed March 14, 2022.

¹⁸ California Climate Change Center (CCCC). 2006. Our Changing Climate, Assessing the Risks to California: A Summary Report from the California Climate Change Center. July 2006. CEC-500-2006-077. Website: https://www.scc.ca.gov/webmaster/ftp/pdf/climate_change/assessing_risks.pdf. Accessed March 14, 2022.

¹⁹ Moser et al. 2009. Moser, Susie, Guido Franco, Sarah Pittiglio, Wendy Chou, Dan Cayan. 2009. The Future Is Now: An Update on Climate Change Science Impacts and Response Options for California. California Energy Commission, PIER Energy-Related Environmental Research Program. CEC-500-2008-071. Website: <https://lynceans.org/wp-content/uploads/2020/01/Moser-2009-Climate-change-impacts-across-CA-.pdf>. Accessed March 14, 2022.

- **Increased risk of large wildfires.** If rain increases as temperatures rise, wildfires in the grasslands and chaparral ecosystems of Southern California are estimated to increase by approximately 30 percent toward the end of the 21st century because more winter rain will stimulate the growth of more plant “fuel” available to burn in the fall. In contrast, a hotter, drier climate could promote up to 90 percent more Northern California fires by the end of the century by drying out and increasing the flammability of forest vegetation.
- **Reductions in the quality and quantity of certain agricultural products.** The crops and products likely to be adversely affected include wine grapes, fruit, nuts, and milk.
- **Exacerbation of air quality problems.** If temperatures rise to the medium warming range, there could be 75 to 85 percent more days with weather conducive to ozone formation in Los Angeles and the San Joaquin Valley, relative to today’s conditions. This is more than twice the increase expected if rising temperatures remain in the lower warming range. This increase in air quality problems could result in an increase in asthma and other health-related problems.
- **A rise in sea levels resulting in the displacement of coastal businesses and residences.** During the past century, sea levels along California’s coast have risen about seven inches. If emissions continue unabated and temperatures rise into the higher anticipated warming range, sea level is expected to rise an additional 22 to 35 inches by the end of the century. Elevations of this magnitude would inundate coastal areas with salt water, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats.
- **An increase temperature and extreme weather events.** Climate change is expected to lead to increases in the frequency, intensity, and duration of extreme heat events and heat waves in California. More heat waves can exacerbate chronic disease or heat-related illness.
- **A decrease in the health and productivity of California’s forests.** Climate change can cause an increase in wildfires, an enhanced insect population, and establishment of non-native species.

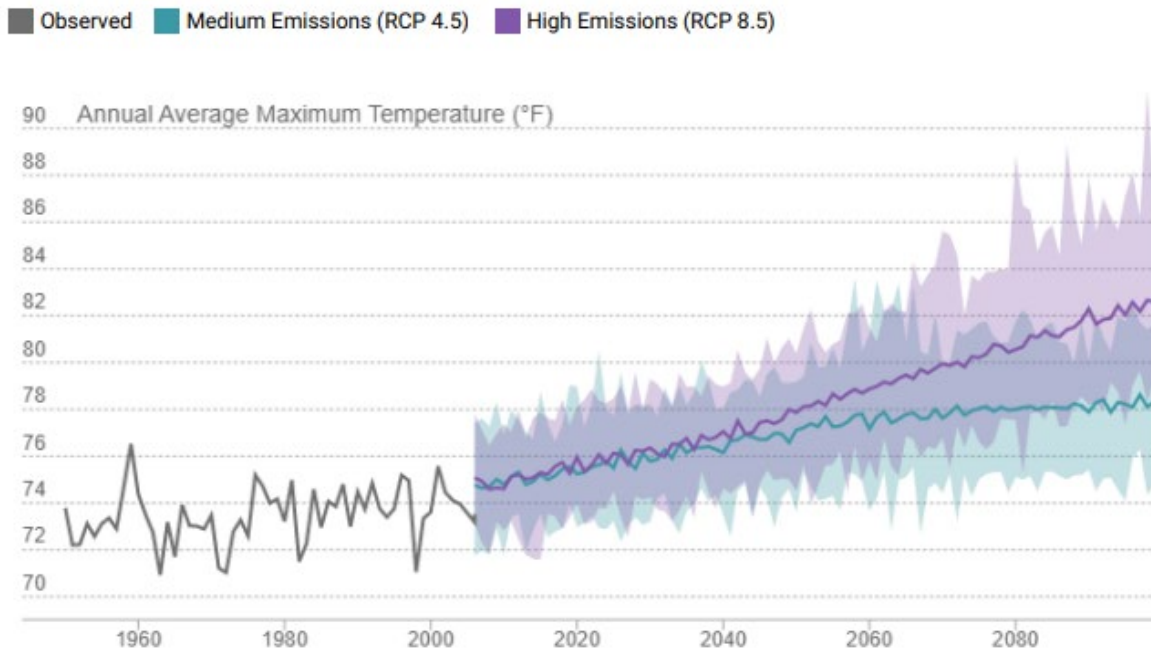
City of Brentwood Area

Figure 1 displays a chart of measured historical and projected annual average temperatures in the Brentwood area. As shown in the figure, temperatures are expected to rise in the low and high GHG emissions scenarios. The results indicate that temperatures by the end of the century are predicted to increase by 4.8°F under the low emissions scenario and 7.9°F under the high emissions scenario.²⁰

²⁰ Cal-Adapt. 2021. Local Climate Snapshots. Website: <https://cal-adapt.org/tools/local-climate-change-snapshot/>. Accessed November 30, 2021.

Annual Average Maximum Temperature

Average of all the hottest daily temperatures in a year.



Source: Cal-Adapt. 2021. Local Climate Snapshots. Website: <https://cal-adapt.org/tools/local-climate-change-snapshot/>. Accessed November 30, 2021.

Figure 1: Observed and Projected Temperatures for Climate Change in the Project Area

3.2 - Greenhouse Gases

Gases that trap heat in the atmosphere are referred to as greenhouse gases. The effect is analogous to the way a greenhouse retains heat. Common GHGs include water vapor, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), chlorofluorocarbons, hydrofluorocarbons (HFC), perfluorocarbons (PFC), sulfur hexafluoride (SF₆), ozone, and aerosols. Natural processes and human activities emit GHGs. The presence of GHGs in the atmosphere affects the earth's temperature. It is believed that emissions from human activities, such as electricity production and vehicle use, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations.

Individual GHG compounds have varying global warming potential and atmospheric lifetimes. The global warming potential is the potential of a gas or aerosol to trap heat in the atmosphere. To describe how much global warming a given type and amount of GHG may cause, the CO₂ equivalent (CO₂e) is used. The calculation of the CO₂ equivalent is a consistent methodology for comparing GHG emissions since it normalizes various GHG emissions to a consistent reference gas, CO₂. For example, CH₄'s warming potential of 25 indicates that CH₄ has 25 times greater warming effect than CO₂ on a molecule-per-molecule basis. A CO₂ equivalent is the mass emissions of an individual GHG

multiplied by its global warming potential. As described in Table 5, the GHGs defined by Assembly Bill (AB) 32 (see the Climate Change Regulatory Environment section for a description) include CO₂, CH₄, N₂O, HFC, PFC, and SF₆. A seventh GHG, nitrogen trifluoride (NF₃), was added to Health and Safety Code Section 38505(g)(7) as a GHG of concern.

Table 5: Description of Greenhouse Gases

| Greenhouse Gas | Description and Physical Properties | Sources |
|----------------------|---|--|
| Nitrous oxide | Nitrous oxide (laughing gas) is a colorless GHG. It has a lifetime of 114 years. Its global warming potential is 298. | Microbial processes in soil and water, fuel combustion, and industrial processes. |
| CH ₄ | Methane is a flammable gas and is the main component of natural gas. It has a lifetime of 12 years. Its global warming potential is 25. | Methane is extracted from geological deposits (natural gas fields). Other sources are landfills, fermentation of manure, and decay of organic matter. |
| CO ₂ | CO ₂ is an odorless, colorless, natural GHG. CO ₂ 's global warming potential is 1. The concentration in 2005 was 379 parts per million (ppm), which is an increase of about 1.4 ppm per year since 1960. | Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood. |
| HFC | HFCs are a group of GHGs containing carbon, chlorine, and at least one hydrogen atom. Global warming potentials range from 140 to 11,700. | HFCs are synthetic man-made chemicals used as a substitute for chlorofluorocarbons in applications such as automobile air conditioners and refrigerants. |
| PFC | PFCs have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above Earth's surface. Because of this, they have long lifetimes, between 10,000 and 50,000 years. Global warming potentials range from 6,500 to 9,200. | Two main sources of PFCs are primary aluminum production and semiconductor manufacturing. |
| SF ₆ | SF ₆ is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. It has a high global warming potential, 23,900. | This gas is man-made and used for insulation in electric power transmission equipment in the magnesium industry, in semiconductor manufacturing, and as a tracer gas. |
| Nitrogen trifluoride | Nitrogen trifluoride (NF ₃) was added to Health and Safety Code Section 38505(g)(7) as a GHG of concern. It has a high global warming potential of 17,200. | This gas is used in electronics manufacture for semiconductors and liquid crystal displays. |

Sources: Compiled from a variety of sources, primarily Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Website: www.ipcc.ch/publications_and_data/ar4/wg1/en/contents.html. Accessed December 8, 2021.

Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change [Core

| Greenhouse Gas | Description and Physical Properties | Sources |
|----------------|-------------------------------------|--|
| | | Writing Team, Pachauri, R.K. and Reisinger, A. (eds.)). IPCC, Geneva, Switzerland. Website: https://www.ipcc.ch/report/ar4/syr/ . Accessed December 8, 2021. |

The State of California has begun the process of addressing pollutants referred to as short-lived climate pollutants. The short-lived climate pollutants include three main components: black carbon, fluorinated gases, and methane. The ARB approved the Short-Lived Climate Pollutant Reduction Strategy in March 2017. The ARB has completed an emission inventory of these pollutants, identified research needs, identified existing and potential new control measures that offer co-benefits, and coordinated with other State agencies and districts to develop measures.²¹ Typical sources of black carbon are already regulated by the ARB, and air district criteria pollutant and toxic regulations control PM_{2.5} from diesel engines and other combustion sources.²² Additional controls on the sources of black carbon, specifically for their GHG impacts beyond those required for toxic and fine particulates, are not likely to be needed.

Human Health Effects of GHG Emissions

GHG emissions from development projects do not result in concentrations that would directly impact public health. However, the cumulative effects of GHG emissions on climate change have the potential to cause adverse effects to human health.

The United States Global Change Research Program, in its Global Climate Change Impacts in the United States report,²³ has analyzed the degree to which impacts on human health are expected to impact the United States.

Potential effects of climate change on public health include:

- **Direct Temperature Effects:** Climate change may directly affect human health through increases in average temperatures, which are predicted to increase the incidence of heat waves and hot extremes.
- **Extreme Events:** Climate change may affect the frequency and severity of extreme weather events, such as hurricanes and extreme heat and floods, which can be destructive to human health and well-being.
- **Climate-Sensitive Diseases:** Climate change may increase the risk of some infectious diseases, particularly those diseases that appear in warm areas and are spread by mosquitoes and other insects, such as malaria, dengue fever, yellow fever, and encephalitis.
- **Air Quality:** Respiratory disorders may be exacerbated by warming-induced increases in the frequency of smog (ground level ozone) events and particulate air pollution.²⁴

²¹ California Air Resources Board (ARB). 2016. Proposed Short-Lived Climate Pollutant Reduction Strategy. Website: <http://www.arb.ca.gov/cc/shortlived/shortlived.htm>. Accessed March 14, 2022.

²² California Air Resources Board (ARB). 2015. Low Carbon Fuel Standard Regulation. Website: <http://www.arb.ca.gov/regact/2015/lcfs2015/lcfs2015.htm>. Accessed March 14, 2022.

²³ The United States Global Change Research Program. Global Climate Change Impacts in the United States. 2009. Website: <https://downloads.globalchange.gov/usimpacts/pdfs/climate-impacts-report.pdf>. Accessed March 14, 2022.

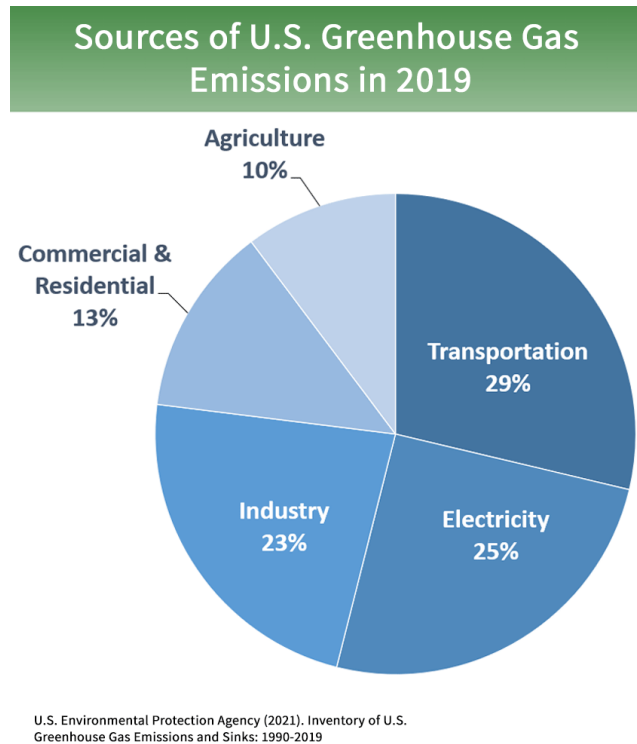
²⁴ The United States Global Change Research Program. Global Climate Change Impacts in the United States. 2009. Website: <https://downloads.globalchange.gov/usimpacts/pdfs/climate-impacts-report.pdf>. Accessed March 14, 2022.

Although there could be health effects resulting from changes in the climate and the consequences that can occur, inhalation of GHGs at levels currently in the atmosphere would not result in adverse health effects, with the exception of ozone and aerosols (PM). At very high indoor concentrations (not at levels existing outside), CO, CH₄, SF₆, and some chlorofluorocarbons can cause suffocation as the gases can displace oxygen.^{25,26}

3.2.1 - Emissions Inventories

United States GHG Inventory

In 2019, total United States GHG emissions totaled 6,558 million metric tons (MMT) CO₂e. Figure 2 presents 2019 United States GHG emissions by economic sector. Emissions decreased from 2018 to 2019 by approximately 1.7 percent. This decrease was largely driven by a decrease in emissions from fossil fuel combustion resulting from a decrease in total energy use in 2019 compared to 2018 and a continued shift from coal to natural gas and renewables in the electric power sector. GHG emissions in 2019 were 13 percent below 2005 levels.²⁷



Source: United States Environmental Protection Agency (EPA). 2020. Inventory of U.S. Greenhouse Gas Emissions and Sinks. April. Website: <https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks>. Accessed November 30, 2021.

²⁵ Centers for Disease Control and Prevention (CDC). 2010. Department of Health and Human Services, the National Institute for Occupational Safety and Health. Carbon Dioxide. Website: www.cdc.gov/niosh/npg/npgd0103.html. Accessed March 31, 2021.

²⁶ Occupational Safety and Health Administration (OSHA). 2003. United States Department of Labor. Safety and Health Topics: Methane. Website: www.osha.gov/dts/chemicalsampling/data/CH_250700.html. Accessed March 14, 2022.

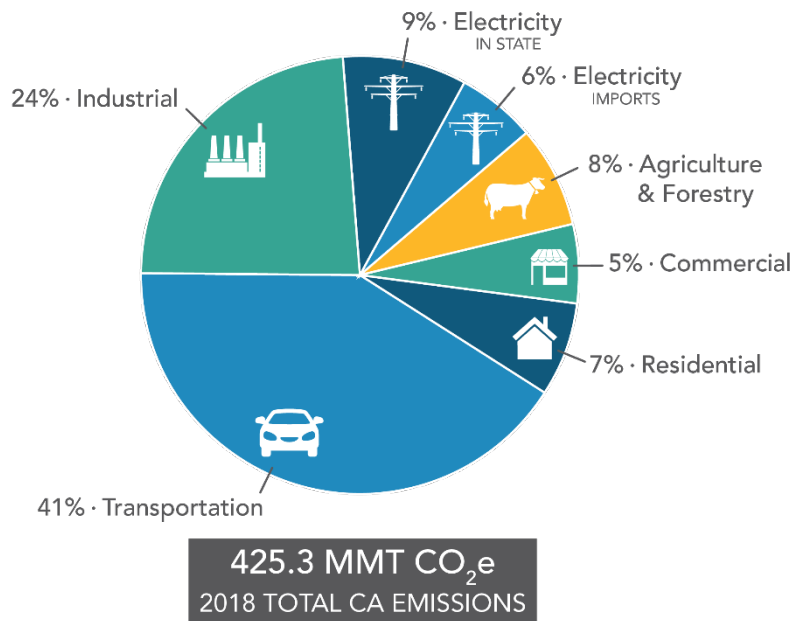
²⁷ United States Environmental Protection Agency (EPA). 2020. Inventory of U.S. Greenhouse Gas Emissions and Sinks. April. Website: <https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks>. Accessed March 14, 2022.

Note: Emissions shown do not include carbon sinks such as change in land uses and forestry.

Figure 2: 2019 U.S. Greenhouse Gas Emissions by Economic Sector

California GHG Inventory

As the second largest emitter of GHG emissions in the U.S., California contributes a large quantity (425.3 MMT CO₂e in 2018) of GHG emissions to the atmosphere. Emissions of CO₂ are byproducts of fossil fuel combustion and are attributable in large part to human activities associated with transportation, industry/manufacturing, electricity and natural gas consumption, and agriculture. In California, the transportation sector is the largest emitter at 41 percent of GHG emissions, followed by industry/manufacturing at 24 percent of GHG emissions (Figure 3).²⁸



Source: California Air Resources Board (ARB). 2020. Current California GHG Emission Inventory Data. Website: <https://ww2.arb.ca.gov/ghg-inventory-data>. Accessed November 30, 2021.

Figure 3: California GHG Emissions by Sector

California’s GHG emissions have followed a declining trend since 2007. In 2018, emissions from routine GHG-emitting activities Statewide were 425.3 MMT CO₂e, 5 MMT CO₂e lower than 2016 levels. This represents an overall decrease of 14 percent since peak levels in 2004 and 7 MMT CO₂e below the 1990 level and the State’s 2020 GHG target. During the 2000 to 2017 period, per capita

²⁸ California Air Resources Board (ARB). 2019. California Greenhouse Gas Emission Inventory - 2020 Edition. Website: <https://ww3.arb.ca.gov/cc/inventory/data/data.htm>. Accessed March 8, 2022.

GHG emissions in California have continued to drop from a peak in 2001 of 14 metric tons (MT) CO₂e per capita to 10.7 MT CO₂e per capita in 2017, a 24 percent decrease. Overall trends in the inventory also demonstrate that the carbon intensity of California's economy (the amount of carbon pollution per million dollars of gross domestic product [GDP]) is declining, representing a 41 percent decline since the 2001 peak, while the State's GDP has grown 52 percent during this period. For the first time since California started to track GHG emissions, the majority of California's electricity comes from zero-GHG sources (hydropower, solar, wind, and nuclear energy).²⁹

3.3 - Regulatory Environment

3.3.1 - International

Intergovernmental Panel on Climate Change. In 1988, the United Nations and the World Meteorological Organization established the IPCC to assess the scientific, technical, and socioeconomic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

United Nations Framework Convention on Climate Change. On March 21, 1994, the United States joined a number of countries around the world in signing the Convention. Under the Convention, governments gather and share information on GHG emissions, national policies, and best practices; launch national strategies for addressing GHG emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

Kyoto Protocol. The Kyoto Protocol is an international agreement linked to the United Nations Framework Convention on Climate Change. The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European community for reducing GHG emissions at average of 5 percent against 1990 levels over the 5-year period from 2008–2012. The Convention (as discussed above) encouraged industrialized countries to stabilize emissions; however, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years; therefore, the Protocol places a heavier burden on developed nations under the principle of "common but differentiated responsibilities."

In 2001, President George W. Bush indicated that he would not submit the treaty to the United States Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. There have been several meetings held to address international climate change commitments post Kyoto, the most notable of which were held by the United Nations Climate Change Committee. The meetings are gradually gaining consensus among participants on individual climate change issues. At the Climate Summit hosted by the United Nations in September 2014, heads of government, business and civil society announced actions in areas that would have the greatest impact on reducing emissions, including climate finance, energy, transport, industry, agriculture, cities, forests, and building resilience.

²⁹ California Air Resources Board (ARB). 2019, August 26. California Greenhouse Emissions for 2000 to 2017: Trends of Emissions and Other Indicators. Website: https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2017/ghg_inventory_trends_00-17.pdf. Accessed March 14, 2022.

Paris Climate Change Agreement. Parties to the Convention reached a landmark agreement on December 12 in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a 4-year negotiating round, the new treaty ends the strict differentiation between developed and developing countries that characterized earlier efforts, replacing it with a common framework that commits all countries to put forward their best efforts and to strengthen them in the years ahead. This includes, for the first time, requirements that all parties report regularly on their emissions and implementation efforts and undergo international review. The agreement and a companion decision by parties were the key outcomes of the conference, known as the 21st Session of the Convention Conference of the Parties, or COP 21.³⁰

On June 1, 2017, former President Donald Trump announced the decision for the United States to withdraw from the Paris Climate Accord.³¹ On January 20, 2021, President Biden announced the decision for the United States to re-commit to the Paris Climate Accord.³² The United States officially became a party to the Agreement once again on February 19, 2021, after a mandatory 30-day waiting period.³³ California remains committed to combating climate change through programs aimed to reduce GHGs.³⁴

3.3.2 - Federal Regulations

The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG Endangerment. *Massachusetts v. EPA* (Supreme Court Case 05-1120) was argued before the United States Supreme Court on November 29, 2006, in which it was petitioned that the EPA regulate four GHGs, including CO₂, under Section 202(a)(1) of the Clean Air Act. A decision was made on April 2, 2007, in which the Supreme Court found that GHGs are air pollutants covered by the Clean Air Act. The Court held that the Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the Clean Air Act. These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed in the section “Clean Vehicles” below. After a lengthy legal challenge, the United States Supreme Court declined to review an Appeals Court ruling that upheld the EPA Administrator findings.

Clean Vehicles. Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On

³⁰ Center for Climate and Energy Solutions (C²ES). 2015. Outcomes of the U.N. Climate Change Conference. Website: <http://www.c2es.org/international/negotiations/cop21-paris/summary>. Accessed March 14, 2022.

³¹ The New York Times. Trump Will Withdraw U.S. From Paris Climate Agreement. Website: <https://www.nytimes.com/2017/06/01/climate/trump-paris-climate-agreement.html>. Accessed March 14, 2022.

³² The White House. Statement by President Biden: Paris Climate Agreement. Website: <https://www.whitehouse.gov/briefing-room/statements-releases/2021/01/20/paris-climate-agreement/>. Accessed March 14, 2022.

³³ United States Department of State. 2021. The United States Officially Rejoins the Paris Agreement. <https://www.state.gov/the-united-states-officially-rejoins-the-paris-agreement/>. Accessed March 14, 2022.

³⁴ California Air Resources Board (ARB). 2017. New Release: California and China Team Up to Push for Millions More Zero Emission Vehicles. Website: <https://ww2.arb.ca.gov/news/california-and-china-team-push-millions-more-zero-emission-vehicles>. Accessed March 14, 2022.

May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the United States. On April 1, 2010, the EPA and the Department of Transportation's National Highway Safety Administration announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the United States.

The first phase of the national program applies to passenger cars, light duty trucks, and medium duty passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO₂ per mile, equivalent to 35.5 miles per gallon if the automobile industry were to meet this CO₂ level solely through fuel economy improvements. Together, these standards would cut CO₂ emissions by an estimated 960 MMT and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). The EPA and the National Highway Safety Administration issued final rules on a second phase joint rulemaking, establishing national standards for light duty vehicles for model years 2017 through 2025 in August 2012.³⁵ The new standards for model years 2017 through 2025 apply to passenger cars, light duty trucks, and medium duty passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO₂ in model year 2025, which is equivalent to 54.5 miles per gallon (mpg) if achieved exclusively through fuel economy improvements.

The EPA and the United States Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy duty trucks and buses on September 15, 2011, which became effective November 14, 2011. For combination tractors, the agencies proposed engine and vehicle standards that began in the 2014 model year and achieve up to a 20 percent reduction in CO₂ emissions and fuel consumption by the 2018 model year. For heavy duty pickup trucks and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10 percent reduction for gasoline vehicles, and a 15 percent reduction for diesel vehicles by 2018 model year (12 and 17 percent respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10 percent reduction in fuel consumption and CO₂ emissions from the 2014 to 2018 model years.

The State of California has received a waiver from the EPA to have separate, stricter corporate average fuel economy standards. Although global climate change did not become an international concern until the 1980s, efforts to reduce energy consumption began in California in response to the oil crisis in the 1970s, resulting in the incidental reduction of GHG emissions. To manage the State's energy needs and promote energy efficiency, AB 1575 created the California Energy Commission (CEC) in 1975. It should be noted that the EPA recently rescinded California's waiver for its GHG and ZEV mandates; however, all ARB standards are still in effect at the time of this writing.³⁶ In

³⁵ United States Environmental Protection Agency (EPA). 2012. EPA and NHTSA Set Standards to Reduce Greenhouse Gases and Improve Fuel Economy for Model Years 2017-2025 Cars and Light Trucks. August. Website: <https://nepis.epa.gov/Exe/tiff2png.cgi/P100E27C.PNG?-r+75+-g+7+D%3A%5CZYFILES%5CINDEX%20DATA%5C11THRU15%5CTIFF%5C00000346%5CP100E27C.TIF>. Accessed March 14, 2022.

³⁶ Beveridge & Diamond Professional Corporation. 2019. EPA Rescinds California's Authority to Regulate Vehicle Tailpipe Greenhouse Gas Emissions and to Implement a Zero-Emission Vehicle Program. September 23. Website: <https://www.bdlaw.com/publications/epa->

September 2020, Governor Gavin Newsom issued Executive Order N-79-20, which requires sales of all new passenger vehicles to be zero emission by 2035 and additional measures to eliminate harmful emissions from the transportation sector.

Consolidated Appropriations Act (Mandatory GHG Reporting). The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the EPA issued the Final Mandatory Reporting of Greenhouse Gases Rule, which became effective January 1, 2010. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 MT or more per year of GHG emissions are required to submit annual reports to the EPA.

New Source Review. The EPA issued a final rule on May 13, 2010, which establishes thresholds for GHGs that define when permits under the New Source Review Prevention of Significant Deterioration and Title V Operating Permit programs are required for new and existing industrial facilities. This final rule “tailors” the requirements of these Clean Air Act permitting programs to limit which facilities will be required to obtain Prevention of Significant Deterioration and Title V permits.

The EPA estimates that facilities responsible for nearly 70 percent of the national GHG emissions from stationary sources will be subject to permitting requirements under this rule. This includes the nation’s largest GHG emitters—power plants, refineries, and cement production facilities.

Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units. As required by a settlement agreement, the EPA proposed new performance standards for CO₂ emissions for new, affected, fossil fuel-fired electric utility generating units on March 27, 2012. New sources greater than 25 megawatts would be required to meet an output-based standard of 1,000 pounds of CO₂ per megawatt-hour (MWh) based on the performance of widely used natural gas combined cycle technology.

Cap and Trade. Cap and trade refer to a policy tool where emissions are limited to a certain amount and can be traded or provides flexibility on how the emitter can comply. There is no federal GHG Cap-and-Trade Program currently; however, some states have joined to create initiatives to provide a mechanism for cap and trade.

The Western Climate Initiative partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 1990 levels by 2020. The partners are California, British Columbia, Manitoba, Ontario, and Québec. Currently only California and Québec are participating in the Cap-and-Trade Program.³⁷

rescinds-californias-authority-to-regulate-vehicle-tailpipe-greenhouse-gas-emissions-and-to-implement-a-zero-emission-vehicle-program/. Accessed March 14, 2022.

³⁷ Center for Climate and Energy Solutions (C²ES). 2015. Cap and Trade Basics. Website: <https://www.c2es.org/content/cap-and-trade-basics/>. Accessed March 14, 2022.

3.3.3 - California

Legislative Actions to Reduce GHGs

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation such as the landmark AB 32 California Global Warming Solutions Act of 2006 was specifically enacted to address GHG emissions. Other legislation, such as the Title 24 and Title 20 energy standards, were originally adopted for other purposes, such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

Assembly Bill 1493 Pavley Regulations and Fuel Efficiency Standards. California AB 1493, enacted on July 22, 2002, required the ARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA’s denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the by the United States District Court for the District of Columbia in 2011.³⁸ The standards were to be phased in during the 2009 through 2016 model years.³⁹ It should be noted that the EPA recently rescinded California’s waiver for its GHG and ZEV mandates; however, all ARB standards are still in effect at the time of this writing.⁴⁰

The second phase of the implementation for the Pavley Bill was incorporated into Amendments to the LEV Program referred to as LEV III or the Advanced Clean Cars Program. The Advanced Clean Car program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for model years 2017 through 2025. The regulation is anticipated to reduce GHGs from new cars by 34 percent from 2016 levels by 2025. The new rules will reduce pollutants from gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid electric vehicles and hydrogen fuel cell cars. The regulations will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California.⁴¹

Assembly Bill 32. The California State Legislature enacted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires that GHGs emitted in California be reduced to 1990 levels by the year 2020. “Greenhouse gases” as defined under AB 32 include CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆. Since AB 32 was enacted, a seventh chemical, nitrogen trifluoride, has also been added to the list of GHGs.

³⁸ California Air Resources Board (ARB). 2013. Clean Car Standards—Pavley, Assembly Bill 1493. Website: <http://www.arb.ca.gov/cc/ccms/ccms.htm>. Accessed March 8, 2022.

³⁹ California Air Resources Board (ARB). 2012. ADVANCED CLEAN CARS SUMMARY. Website: https://ww2.arb.ca.gov/sites/default/files/2019-12/acc%20summary-final_ac.pdf. Accessed March 8, 2022.

⁴⁰ Beveridge & Diamond Professional Corporation. 2019. EPA Rescinds California’s Authority to Regulate Vehicle Tailpipe Greenhouse Gas Emissions and to Implement a Zero Emission Vehicle Program. September 23. Website: <https://www.bdlaw.com/publications/epa-rescinds-californias-authority-to-regulate-vehicle-tailpipe-greenhouse-gas-emissions-and-to-implement-a-zero-emission-vehicle-program/>. Accessed March 8, 2022.

⁴¹ California Air Resources Board (ARB). 2011. Status of Scoping Plan Recommended Measures. Website: https://calcarbondash.org/cc/scopingplan/sp_measures_implementation_timeline.pdf. Accessed March 8, 2022.

The ARB is the State agency charged with monitoring and regulating sources of GHGs. The ARB approved the 1990 GHG emissions level of 427 MMT CO₂e on December 6, 2007.⁴² Therefore, to meet the State’s target, emissions generated in California in 2020 are required to be equal to or less than 427 MMT CO₂e. Emissions in 2020 in a business-as-usual (BAU) scenario were estimated to be 596 MMT CO₂e, which do not account for reductions from AB 32 regulations.⁴³ At that rate, a 28 percent reduction was required to achieve the 427 MMT CO₂e 1990 inventory. In October 2010, ARB prepared an updated 2020 forecast to account for the effects of the 2008 recession and slower forecasted growth. Under the updated forecast, a 21.7 percent reduction from BAU is required to achieve 1990 levels.⁴⁴

California Air Resources Board Scoping Plan. The ARB Climate Change Scoping Plan (Scoping Plan) contains measures designed to reduce the State’s emissions to 1990 levels by the year 2020 to comply with AB 32.⁴⁵ The Scoping Plan identifies recommended measures for multiple GHG emission sectors and the associated emission reductions needed to achieve the year 2020 emissions target—each sector has a different emission reduction target. Most of the measures target the transportation and electricity sectors. As stated in the Scoping Plan, the key elements of the strategy for achieving the 2020 GHG target include:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards.
- Achieving a Statewide renewables energy mix of 33 percent.
- Developing a California Cap-and-Trade Program that links with other Western Climate Initiative partner programs to create a regional market system.
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets.
- Adopting and implementing measures pursuant to existing State laws and policies, including California’s clean car standards, goods movement measures, and the Low Carbon Fuel Standard (LCFS).
- Creating targeted fees, including a public goods charge on water use, fees on high global warming potential gases, and a fee to fund the administrative costs of the State’s long-term commitment to AB 32 implementation.

In addition, the Scoping Plan differentiates between “capped” and “uncapped” strategies. Capped strategies are subject to the proposed Cap-and-Trade Program. Implementation of the capped strategies is calculated to achieve a sufficient number of reductions by 2020 to achieve the emission target contained in AB 32. Uncapped strategies that will not be subject to the cap-and-trade

⁴² California Air Resources Board (ARB). 2007. Staff Report. California 1990 Greenhouse Gas Level and 2020 Emissions Limit. November 16, 2007. Website: www.arb.ca.gov/cc/inventory/pubs/reports/staff_report_1990_level.pdf. Accessed March 8, 2022.

⁴³ California Air Resources Board (ARB). 2008. (includes edits made in 2009) Climate Change Scoping Plan, a framework for change. Website: http://www.arb.ca.gov/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed March 8, 2022.

⁴⁴ California Air Resources Board (ARB). 2010. 2020 Greenhouse Gas Emissions Projection and BAU Scenario Emissions Estimate. Website: https://ww2.arb.ca.gov/sites/default/files/classic/cc/capandtrade/guidance/cap_trade_overview.pdf. Accessed March 8, 2022.

⁴⁵ California Air Resources Board (ARB). 2008. (includes edits made in 2009) Climate Change Scoping Plan, a framework for change. Website: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed March 8, 2022.

emissions caps and requirements are provided as a margin of safety by accounting for additional GHG emission reductions.⁴⁶

The ARB approved the First Update to the Scoping Plan on May 22, 2014. The First Update builds upon the Initial Scoping Plan with new strategies and recommendations.⁴⁷

Senate Bill 375—the Sustainable Communities and Climate Protection Act of 2008. Senate Bill (SB) 375 was signed into law on September 30, 2008. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40 percent of the total GHG emissions in California. SB 375 states, “Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32.” SB 375 does the following: (1) requires Metropolitan Planning Organizations (MPOs) to include sustainable community strategies in their Regional Transportation Plans (RTP) for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

Senate Bill 32 and the 2017 Climate Change Scoping Plan Update. The Governor signed SB 32 in September 2016, giving the ARB the statutory responsibility to include the 2030 target previously contained in Executive Order B-30-15 in the 2017 Scoping Plan Update. SB 32 states that “In adopting rules and regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions authorized by this division, the State [air resources] board shall ensure that Statewide greenhouse gas emissions are reduced to at least 40 percent below the Statewide greenhouse gas emissions limit no later than December 31, 2030.” The 2017 Climate Change Scoping Plan Update addressing the SB 32 targets was adopted on December 14, 2017. The major elements of the framework proposed to achieve the 2030 target are as follows:

1. SB 350
 - Achieve 50 percent Renewables Portfolio Standard (RPS) by 2030.
 - Doubling of energy efficiency savings by 2030.
2. Low Carbon Fuel Standard
 - Increased stringency (reducing carbon intensity 18 percent by 2030, up from 10 percent in 2020).
3. Mobile Source Strategy (Cleaner Technology and Fuels Scenario)
 - Maintaining existing GHG standards for light- and heavy duty vehicles.
 - Put 4.2 million ZEVs on the roads.
 - Increase ZEV buses, delivery, and other trucks.
4. Sustainable Freight Action Plan
 - Improve freight system efficiency.
 - Maximize use of near zero-emission vehicles and equipment powered by renewable energy.
 - Deploy over 100,000 zero-emission trucks and equipment by 2030.
5. Short-Lived Climate Pollutant Reduction Strategy

⁴⁶ California Air Resources Board (ARB). 2008 (includes edits made in 2009). Climate Change Scoping Plan, a framework for change. Website: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/document/adopted_scoping_plan.pdf Accessed March 8, 2022.

⁴⁷ California Air Resources Board (ARB). 2014. First Update to the Climate Change Scoping Plan. Website: <http://www.arb.ca.gov/cc/scopingplan/document/updatedscopingplan2013.htm>. Accessed March 8, 2022.

- Reduce emissions of methane and HFCs 40 percent below 2013 levels by 2030.
 - Reduce emissions of black carbon 50 percent below 2013 levels by 2030.
6. SB 375 Sustainable Communities Strategies
 - Increased stringency of 2035 targets.
 7. Post-2020 Cap-and-Trade Program
 - Declining caps, continued linkage with Québec, and linkage to Ontario, Canada.
 - The ARB will look for opportunities to strengthen the program to support more air quality co-benefits, including specific program design elements. In fall 2016, ARB staff described potential future amendments including reducing the offset usage limit, redesigning the allocation strategy to reduce free allocation to support increased technology and energy investment at covered entities and reducing allocation if the covered entity increases criteria or toxics emissions over some baseline.
 8. 20 percent reduction in GHG emissions from the refinery sector.
 9. By 2018, develop Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Senate Bill 1368—Emission Performance Standards. In 2006, the State Legislature adopted SB 1368, which was subsequently signed into law by the Governor. SB 1368 directs the California Public Utilities Commission to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 seeks to limit carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. The California Public Utilities Commission adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to publicly owned utilities, of 1,100 pounds CO₂ per MWh.

Senate Bill 1078—Renewable Electricity Standards. On September 12, 2002, Governor Gray Davis signed SB 1078, requiring California to generate 20 percent of its electricity from renewable energy by 2017. SB 1078 changed the due date to 2010 instead of 2017. On November 17, 2008, Governor Arnold Schwarzenegger signed Executive Order S-14-08, which established an RPS target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. Governor Schwarzenegger also directed the ARB (Executive Order S-21-09) to adopt a regulation by July 31, 2010, requiring the State's load serving entities to meet a 33 percent renewable energy target by 2020. The ARB approved the Renewable Electricity Standard on September 23, 2010, by Resolution 10-23.

Senate Bill 350—Clean Energy and Pollution Reduction Act of 2015. The legislature recently approved, and the Governor signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies toward a regional electricity grid, and improved infrastructure for electric vehicle (EV) charging stations. Provisions for a 50 percent reduction in the use of petroleum Statewide were removed from the Bill due to opposition and

concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce Statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33 percent to 50 percent by 2030, with interim targets of 40 percent by 2024, and 25 percent by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the CEC, and local publicly owned utilities.
- Reorganize the Independent System Operator to develop more regional electrified transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.⁴⁸

Senate Bill 100—The 100 Percent Clean Energy Act of 2018. The legislation directs the CPUC, CEC, and the ARB to plan for 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045. This Act amends Sections 399.11, 399.15, and 399.30 of, and adds Section 454.53 to, the Public Utilities Code, relating to energy.

Executive Orders Related to GHG Emissions

California's Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders. Although not regulatory, they set the tone for the State and guide the actions of State agencies.

Executive Order S-3-05. Former California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S3-05, the following reduction targets for GHG emissions:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an Executive Order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07—Low Carbon Fuel Standard. The Governor signed Executive Order S 01-07 on January 18, 2007. The order mandates that a Statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. In particular, the Executive Order established a LCFS and directed the Secretary for Environmental Protection to coordinate the actions of the CEC, ARB, University of California, and other agencies to develop and propose protocols for measuring the "lifecycle carbon intensity" of transportation fuels. The ARB adopted the LCFS on April 23, 2009.

The LCFS was subject to legal challenge in 2011. Ultimately, on August 8, 2013, the Fifth District Court of Appeal (California) ruled that the ARB failed to comply with CEQA and the Administrative

⁴⁸ California Legislative Information (California Leginfo). 2015. Senate Bill 350 Clean Energy and Pollution Reduction Act of 2015. Website: https://leginfo.ca.gov/faces/billNavClient.xhtml?bill_id=201520160SB350. Accessed March 8, 2022.

Procedure Act when adopting regulations for LCFS. In a partially published opinion, the Court of Appeal directed that Resolution 09-31 and two Executive Orders of the ARB approving LCFS regulations promulgated to reduce GHG emissions be set aside. However, the Court tailored its remedy to protect the public interest by allowing the LCFS regulations to remain operative while ARB complies with the procedural requirements it failed to satisfy.

To address the Court ruling, the ARB was required to bring a new LCFS regulation to the Board for consideration in February 2015. The proposed LCFS regulation was required to contain revisions to the 2010 LCFS as well as new provisions designed to foster investments in the production of the low carbon fuels, offer additional flexibility to regulated parties, update critical technical information, simplify and streamline program operations, and enhance enforcement. The second public hearing for the new LCFS regulation was held on September 24, 2015, and September 25, 2015, where the LCFS regulation was adopted. The Final Rulemaking Package adopting the regulation was filed with the Office of Administrative Law (OAL) on October 2, 2015. The OAL approved the regulation on November 16, 2015.⁴⁹

Executive Order S-13-08. Executive Order S-13-08 states that “climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California’s economy, to the health and welfare of its population and to its natural resources.” Pursuant to the requirements in the order, the 2009 California Climate Adaptation Strategy⁵⁰ was adopted, which is the “. . . first Statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States.” Objectives include analyzing risks of climate change in California, identifying, and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order B-30-15. On April 29, 2015, Governor Edmund G. Brown Jr. issued an Executive Order to establish a California GHG reduction target of 40 percent below 1990 levels by 2030. The Governor’s Executive Order aligns California’s GHG reduction targets with those of leading international governments ahead of the United Nations Climate Change Conference in Paris late 2015. The Executive Order sets a new interim Statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050, and directs the ARB to update the Climate Change Scoping Plan to express the 2030 target in terms of MT CO₂e. The Executive Order also requires the State’s climate adaptation plan to be updated every 3 years and for the State to continue its climate change research program, among other provisions.

California Regulations and Building Codes

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California’s energy consumption relatively flat even with rapid population growth.

⁴⁹ California Air Resources Board (ARB). 2015. Low Carbon Fuel Standard Regulation. Website: <https://www.arb.ca.gov/regact/2015/lcfs2015/lcfs2015.htm>. Accessed March 8, 2022.

⁵⁰ California Natural Resources Agency. 2009. 2009 California Climate Adaptation Strategy. Website: https://cawaterlibrary.net/wp-content/uploads/2017/05/Statewide_Adaptation_Strategy.pdf. Accessed March 8, 2022.

California Code of Regulations Title 13: Motor Vehicles. California Code of Regulations, Title 13: Division 3, Chapter 10, Article 1, Section 2485: Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling.⁵¹ This measure seeks to reduce public exposure to DPM and other air contaminants by establishing idling restrictions, emission standards, and other requirements for heavy duty diesel engines and alternative idle reduction technologies to limit the idling of diesel-fueled commercial motor vehicles. Any person that owns, operates, or causes to operate any diesel-fueled commercial motor vehicle must not allow a vehicle to idle for more than 5 consecutive minutes at any location, or operate a diesel-fueled auxiliary power system for greater than 5 minutes at any location when within 100 feet of a restricted area.

California Code of Regulations, Title 13: Division 3, Chapter 9, Article 4.8, Section 2449: General Requirements for In-Use Off-Road Diesel-Fueled Fleets. This measure regulates NO_x, DPM, and other criteria pollutant emissions from in-use, off-road diesel-fueled vehicles. This measure also requires each fleet to meet fleet average requirements or demonstrate that it has met “best available control technology” requirements. Additionally, this measure requires medium and large fleets to have a written idling policy that is made available to operators of the vehicles informing them that idling is limited to 5 consecutive minutes or less.

Title 20 Appliance Efficiency Regulations. California Code of Regulations, Title 20: Division 2, Chapter 4, Article 4, Sections 1601-1608: Appliance Efficiency Regulations regulates the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. Twenty-three categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the State and those designed and sold exclusively for use in recreational vehicles or other mobile equipment.

Title 24 Energy Efficiency Standards. California Code of Regulations Title 24 Part 6: California’s Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California’s energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The newest version of Title 24 adopted by the CEC went into effect on January 1, 2020.

Title 24 California Green Building Standards Code. California Code of Regulations Title 24 Part 11 code is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect January 1, 2011. The code is updated on a regular basis, with the most recent update consisting of the 2019 California Green Building Standards Code (CALGreen) that became effective January 1, 2020.⁵² Local jurisdictions are permitted to adopt more stringent

⁵¹ Thomas Reuters Westlaw. 2020. California Code of Regulations, Title 13: Division 3, Chapter 10, Article 1, Section 2485: Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling. Website: [https://govt.westlaw.com/calregs/Document/I6DACC2EF0D6441DDA5B788DFEDCD1A22?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=\(sc.Default\)](https://govt.westlaw.com/calregs/Document/I6DACC2EF0D6441DDA5B788DFEDCD1A22?viewType=FullText&originationContext=documenttoc&transitionType=CategoryPageItem&contextData=(sc.Default)) Accessed March 8, 2022.

⁵² State of California. 2020. California Green Building Standards Code (CALGreen). Website: https://calgreenenergyservices.com/wp/wp-content/uploads/2019_california_green_code.pdf. Accessed March 8, 2022.

requirements, as State law provides methods for local enhancements. State building code provides the minimum standard that buildings need to meet in order to be certified for occupancy, which is generally enforced by the local building official. Additionally, the 2019 California Building Standards Code (CBC) EV and clean air vehicle requirements would be included in the project design. Chapter 4, Section 4.106.4.1 requires the installation of a listed raceway to accommodate a dedicated 208/240-volt branch circuit.⁵³ Title 24, Part 6, Subchapter 8 requires low-rise residential buildings (3 habitable stories or fewer) to include a rooftop solar system of a minimum capacity, depending on the calculations contained therein.⁵⁴

Model Water Efficient Landscape Ordinance. The Model Water Efficient Landscape Ordinance (Ordinance) was required by AB 1881 Water Conservation Act. The bill required local agencies to adopt a local landscape ordinance at least as effective in conserving water as the Model Ordinance by January 1, 2010. Reductions in water use of 20 percent consistent with (SBX-7-7) 2020 mandate are expected for Ordinance. Governor Brown’s Drought Executive Order of April 1, 2015 (Executive Order B-29-15) directed the California Department of Water Resources to update the Ordinance through expedited regulation. The California Water Commission approved the revised Ordinance on July 15, 2015, which became effective on December 15, 2015. New development projects that include landscaped areas of 500 square feet or more are subject to the Ordinance. The update requires:

- More efficient irrigation systems.
- Incentives for graywater usage.
- Improvements in on-site stormwater capture.
- Limiting the portion of landscapes that can be planted with high water use plants.
- Reporting requirements for local agencies.

Senate Bill 97 and the CEQA Guidelines Revisions. Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. SB 97 states “(a) On or before July 1, 2009, the Office of Planning and Research shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the Office of Planning and Research pursuant to subdivision (a).”

The 2010 CEQA Amendments first guided public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The 2010 CEQA Amendments fit within the existing CEQA framework by amending existing CEQA Guidelines to reference climate change. The 2010 CEQA Amendments also revised Appendix F of the CEQA Guidelines, which focuses on energy conservation, and the sample environmental checklist in Appendix G was amended to include GHG questions.

⁵³ 2019 California Green Building Standard Code (CALGreen), Title 24, Part 11, Chapter 4. Residential Mandatory Measures. Website: <https://codes.iccsafe.org/content/CAGBSC2019/chapter-4-residential-mandatory-measures>. Accessed March 8, 2022.

⁵⁴ 2019 California Green Building Standard Code (CALGreen), Title 24, Part 6, Subchapter 8. Low-Rise Residential Buildings—Performance and Prescriptive Compliance Approached. Website: <https://codes.iccsafe.org/content/CAEC2019/subchapter-8-low-rise-residential-buildings-performance-and-prescriptive-compliance-approaches>. Accessed March 8, 2022.

The most recent 2018 CEQA Amendments expanded upon the previous guidance by specifying that:

- The lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively small compared to Statewide, national, or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and State regulatory schemes.
- In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.
- A lead agency may use a model or methodology to estimate greenhouse gas emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use.

California Supreme Court GHG Ruling

In a November 30, 2015, ruling, the *California Supreme Court in Center for Biological Diversity v. California Department of Fish and Wildlife* on the Newhall Ranch project concluded that whether the project was consistent with meeting Statewide emission reduction goals is a legally permissible criterion of significance, but the significance finding for the project was not supported by a reasoned explanation based on substantial evidence. The Court offered potential solutions on pages 25-27 of the ruling to address this issue summarized below:

Specifically, the Court advised that:

- **Substantiation of Project Reductions from BAU.** A lead agency may use a BAU comparison based on the Scoping Plan's methodology if it also substantiates the reduction a particular project must achieve to comply with Statewide goals (page 25).
- **Compliance with Regulatory Programs or Performance Based Standards.** A lead agency "might assess consistency with AB 32's goal in whole or part by looking to compliance with regulatory programs designed to reduce greenhouse gas emissions from particular activities" (page 26).
- **Compliance with GHG Reduction Plans or Climate Action Plans.** A lead agency may utilize "geographically specific GHG emission reduction plans" such as Climate Action Plans (CAPs) or GHG emission reduction plans to provide a basis for the tiering or streamlining of project-level CEQA analysis (page 26).

- **Compliance with Local Air District Thresholds.** A lead agency may rely on “existing numerical thresholds of significance for greenhouse gas emissions” adopted by, for example, local air districts (page 27).

3.3.4 - Bay Area Air Quality Management District

The BAAQMD provides multiple significance thresholds in its 2017 BAAQMD CEQA Guidelines for operational GHG emissions. The BAAQMD’s project-level significance thresholds for operational GHG generation are as follows:

- Compliance with a qualified GHG Reduction Strategy, or
- 1,100 MT CO₂e per year, or
- 4.6 MT CO₂e per service population (employees plus residents) per year.

It should be noted that the BAAQMD’s thresholds of significance was established based on meeting the 2020 GHG targets set forth in the AB 32 Scoping Plan.

3.3.5 - Local

City of Brentwood General Plan

The Brentwood General Plan establishes the following applicable policies and actions that are relevant to GHG emissions and energy:

GHG Policies

- Policy COS 8-4** Encourage new development or significant remodels to install fireplaces, wood stoves, and/or heaters which meet BAAQMD standards.
- Policy COS 8-6** Support the development and implementation of a GHG reduction plan, or Climate Action Plan that addresses and reduces GHG emissions associated with community operations, including but not limited to, mobile sources (vehicle traffic), energy consumption, and solid waste.
- Policy COS 8-7** Coordinate with Contra Costa County and nearby cities to implement regional GHG reduction plans and consolidate efforts to reduce GHGs throughout the county.
- Policy COS 8-8** Encourage local businesses and industries to engage in voluntary efforts to reduce GHG emissions and energy consumption.
- Policy COS 8-11** Encourage new construction to incorporate passive solar features.

GHG Actions

- COS 8c** Prepare and adopt a Climate Action Plan. The Climate Action Plan should include the following components:
- A baseline greenhouse gas (GHG) emissions inventory;

- An adopted GHG emissions reduction target of at least 15 percent below the business-as-usual projections by 2020;
- GHG reductions measures that apply to community wide operations, City operations, and future development projects; and
- An implementation and monitoring program.

Energy Policies

- Policy COS 9-1** Require all new public and privately constructed buildings to meet and comply with the most current “green” development standards in the California Code of Regulations (CCR), Title 24.
- Policy COS 9-2** Support innovative and green building best management practices including, but not limited to, LEED™ certification for all new development, and encourage project applicants to exceed the most current “green” development standards in the California Code of Regulations (CCR), Title 24, if feasible.
- Policy COS 9-3** Promote the use of alternative energy sources in new development.
- Policy COS 9-4** Incorporate innovative green building techniques and best management practices in the site design, construction, and renovation of all public projects.
- Policy COS 9-5** Promote water conservation among water users.
- Policy COS 9-6** Continue to require new development to incorporate water efficient fixtures into design and construction.
- Policy COS 9-7** Promote the use of reclaimed water and other non-potable water sources.
- Policy COS 9-8** Encourage large-scale developments and golf course developments to incorporate dual water systems.
- Policy COS 9-9** Encourage and support the use of drought-tolerant and regionally native plants in landscaping.
- Policy COS 9-10** Ensure that the layout and design of new development and significant remodels encourages the use of transportation modes other than automobiles and trucks.
- Policy COS 9-11** Continue the citywide recycling program and actively encourage recycling.
- Policy COS 9-12** Continue efforts to reduce solid waste generation throughout the life of the General Plan.
- Policy COS 9-13** Continue to encourage and support the use of bicycles as an alternative means of transportation.

Energy Actions

- COS 9a** Continue to review development projects to ensure that all new public and private development complies with the California Code of Regulations (CCR), Title 24 standards as well as the energy efficiency standards established by the General Plan and the Brentwood Municipal Code.
- COS 9b** Connect residents and businesses with programs that provide free or low cost energy efficiency audits and retrofits to existing buildings.
- COS 9c** Explore amending the Brentwood Municipal Code to incentivize the use of small-scale renewable energy facilities and, where appropriate, to remove impediments to such uses.
- COS 9d** Develop and provide incentives to developers and businesses that use reclaimed water and other non-potable water for landscaping.
- COS 9e** Continue to implement Chapter 17.630 of the Brentwood Municipal Code, particularly as it relates to water conservation efforts.
- COS 9f** Provide a conservation page (or similar page) on the City’s website that provides links to resource agencies and provides information regarding local and regional conservation and environmental programs, to the extent that the City has readily available information, including recycling guidance for single-family residences, businesses, and apartments, opportunities for reuse of materials, a description of how to compost, and a description of methods to reduce water use, such as appropriate reuse and recycling of water, water conservation measures, and xeriscaping.
- COS 9g** Develop a list of drought-tolerant and native plants appropriate for use in Brentwood and review development projects for adherence to this list.

Local Building Codes

Some cities and counties have adopted local requirements that exceed the State minimum requirements for building efficiency/renewables, electricity readiness, energy and water conservation, information disclosure, and process loads. These local building energy code requirements are known as “reach codes.” At this time, the City of Brentwood has not adopted local building codes that reach beyond the requirements included in the 2019 CBC or other State regulations, as discussed in preceding sections of this report.

Waste Diversion

With the passage of SB 1016, the Per Capita Disposal Measurement System, only per capita disposal rates are measured. The City of Brentwood has been operating its own Solid Waste Division since

1994. Pursuant to AB 341,⁵⁵ the City is researching how to convert 75 percent of solid waste from landfills by 2020. In addition, the City is still researching how to meet a 75 percent reduction of organic waste by 2025 pursuant to SB 1383.^{56,57}

⁵⁵ California Department of Resources Recycling and Recovery (CalRecycle). 2015. AB 341 Report to the Legislature. Website: <https://www2.calrecycle.ca.gov/Publications/Details/1538>. Accessed March 8, 2022.

⁵⁶ California Department of Resources Recycling and Recovery (CalRecycle). 2021. Organic Materials Management and Climate Change. Website: <https://www.calrecycle.ca.gov/climate/organics>. Accessed March 8, 2022.

⁵⁷ City of Brentwood. Website: https://www.brentwoodca.gov/gov/pw/recycling/garbage/senate_bill_1383.asp. Accessed March 1, 2022.

SECTION 4: MODELING PARAMETERS AND ASSUMPTIONS

4.1 - Model Selection and Guidance

Regional air pollutant emissions are composed of those on-site and off-site construction and operational emissions generated from all facets of the proposed project. Air pollutant emissions can be estimated by using emission factors and a level of activity. Emission factors represent the emission rate of a pollutant over a given time or activity, for example, grams of NO_x per vehicle mile traveled or grams of NO_x per horsepower hour of equipment operation. The activity factor is a measure of how active a piece of equipment is and can be represented as the amount of material processed, elapsed time that a piece of equipment is in operation, horsepower of a piece of equipment used, the amount of fuel consumed in a given amount of time, or Vehicle Miles Traveled (VMT) per day. The ARB has published emission factors for on-road mobile vehicles/trucks in the Emission Factor (EMFAC) mobile source emissions model and emission factors for off-road equipment and vehicles in the OFFROAD emissions model. An air emissions model (or calculator) combines the emission factors and the levels of activity and outputs the emissions for the various pieces of equipment.

The California Emissions Estimator Model (CalEEMod) was developed in cooperation with the SCAQMD and other air districts throughout the State. CalEEMod is designed as a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with construction and operation from a variety of land uses. The current version of CalEEMod, Version 2020.4.0, was released in June 2021 as part of a coordinated development effort between the California Air Pollution Control Officers Association (CAPCOA), the California Air Districts, and Trinity Consultants. Regional construction and operational emissions reported in this analysis were modeled using CalEEMod Version 2020.4.0.

4.2 - Air Pollutants and GHGs Assessed

4.2.1 - Criteria Pollutants Assessed

The following air pollutants are assessed in this analysis:

- Reactive organic gases (ROG)
- Nitrogen oxides (NO_x)
- Carbon monoxide (CO)
- Sulfur oxides (SO_x)
- Particulate matter less than 10 microns in diameter (PM₁₀)
- Particulate matter less than 2.5 microns in diameter (PM_{2.5})

Note that the proposed project would emit ozone precursors ROG and NO_x. However, the proposed project would not directly emit ozone since it is formed in the atmosphere during the photochemical reaction of ozone precursors.

The proposed project would emit ultrafine particles. However, there is currently no standard separate from the PM_{2.5} standards for ultrafine particles and there is no accepted methodology to quantify or assess the significance of such particles.

4.2.2 - Greenhouse Gases Assessed

This analysis is restricted to GHGs identified by AB 32, which include carbon dioxide, methane, N₂O, hydrofluorocarbons, perfluorocarbons, and SF₆.

The proposed project may emit GHGs that are not defined by AB 32. For example, the proposed project may generate aerosols through emissions of DPM from the vehicles and trucks that would access the project site. Aerosols are short-lived particles, as they remain in the atmosphere for about one week. Black carbon is a component of aerosol. Studies have indicated that black carbon has a high global warming potential; however, the IPCC states that it has a low level of scientific certainty.⁵⁸

Water vapor could be emitted from evaporated water used for landscaping, but this is not a significant impact because water vapor concentrations in the upper atmosphere are primarily due to climate feedbacks rather than emissions from project-related activities.

The proposed project would emit NO_x and VOCs, which are ozone precursors. Ozone is a GHG; however, unlike the other GHGs, ozone in the troposphere is relatively short-lived and can be reduced in the troposphere on a daily basis. Stratospheric ozone can be reduced through reactions with other pollutants.

Certain GHGs defined by AB 32 would not be emitted by the proposed project. Perfluorocarbons and SF₆ are typically used in industrial applications, none of which would be used by the proposed project. Therefore, it is not anticipated that the proposed project would emit perfluorocarbons or SF₆.

4.3 - Modeling Assumptions

4.3.1 - Construction

Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and prevailing weather conditions. Construction emissions result from on-site and off-site activities. On-site emissions principally consist of exhaust emissions from the activity levels of heavy duty construction equipment, motor vehicle operation, and fugitive dust (mainly PM₁₀) from disturbed soil. Additionally, paving operations and application of architectural coatings would release VOC emissions. Off-site emissions are caused by motor vehicle exhaust from delivery vehicles, worker traffic, and road dust (PM₁₀ and PM_{2.5}).

⁵⁸ Intergovernmental Panel on Climate Change (IPCC). 2007. Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (Solomon, S., D. Qin, M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller [eds.]). Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. Website https://www.ipcc.ch/site/assets/uploads/2018/05/ar4_wg1_full_report-1.pdf. Accessed March 8, 2022.

Construction activities occurring on the approximately 19.8-acre project site would consist of demolition, site preparation, grading, building construction, paving, and architectural coating of the inside and outside of the building. For each construction activity, the construction equipment operating hours and numbers represent the average equipment activity over the duration of the activity. A conceptual construction schedule is provided in Table 6 that presents the duration for each construction activity. Table 7 presents the number of assumed construction equipment along with hours of operation per day, horsepower, and load factor. Where project-specific information was not available or unknown, default assumptions were used to complete emissions modeling. Where the CalEEMod default schedule was compressed to match applicant-provided information, the construction equipment usage was increased proportionally to retain the CalEEMod default horsepower (hp) hours (see Appendix A). The activity for construction equipment is based on the horsepower and load factors of the equipment. In general, the horsepower is the power of an engine—the greater the horsepower, the greater the power. The load factor is the average power of a given piece of equipment while in operation compared with its maximum rated horsepower. A load factor of 1.0 indicates that a piece of equipment continually operates at its maximum operating capacity. This analysis uses the CalEEMod default load factors for off-road equipment.

The anticipated construction schedule reflects the construction start date and construction phase durations assumed for the purposes of this environmental analysis. Based on applicant-provided information, demolition of the proposed project would start in September 2022 and would take approximately 63 days. Construction would be completed in one phase, beginning in September 2023, and concluding in May 2024. The proposed project is expected to be operational following construction in the third quarter of 2024. The construction schedule used in the analysis represents a “worst-case” analysis scenario since emission factors for construction equipment decrease as the analysis year increases, due to improvements in technology and compliance with more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moved to later years. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required by the CEQA Guidelines.

Table 6: Construction Schedule

| Construction Activity | Conceptual Construction Schedule | | Working Days per Week | Working Days |
|----------------------------------|----------------------------------|------------|-----------------------|--------------|
| | Start Date | End Date | | |
| Project Site Construction | | | | |
| Demolition | 9/1/2022 | 11/28/2022 | 5 | 63 |
| Site Preparation | 11/4/2022 | 2/11/2023 | 5 | 71 |
| Grading | 2/12/2023 | 4/18/2023 | 5 | 47 |
| Building Construction | 8/16/2023 | 4/4/2024 | 5 | 167 |
| Paving | 4/19/2023 | 8/15/2023 | 5 | 85 |
| Architectural Coating | 4/4/2024 | 6/25/2024 | 5 | 59 |

| Construction Activity | Conceptual Construction Schedule | | Working Days per Week | Working Days |
|---|----------------------------------|-----------|-----------------------|--------------|
| | Start Date | End Date | | |
| Off-site Improvements | | | | |
| Site Preparation–Off-site Improvements | 9/1/2022 | 9/1/2022 | 5 | 1 |
| Grading–Off-site Improvements | 9/2/2022 | 9/5/2022 | 5 | 2 |
| Paving–Off-site improvements | 9/6/2022 | 9/12/2022 | 5 | 5 |
| Architectural Coating–Off-site Improvements | 9/13/2022 | 9/19/2022 | 5 | 5 |
| Source: CalEEMod Output (Appendix A). | | | | |

A summary of the on-site, off-road construction equipment usage assumptions used to estimate emissions is presented in Table 7.

Table 7: Project Construction Equipment Assumptions

| Construction Activity | Equipment | Equipment Amount | Average Hours per Day | Horsepower | Load Factor |
|----------------------------------|---------------------------|------------------|-----------------------|------------|-------------|
| Project Site Construction | | | | | |
| Demolition | Concrete Industrial Saws | 1 | 8 | 81 | 0.73 |
| | Excavators | 3 | 8 | 158 | 0.38 |
| | Rubber Tired Dozers | 2 | 8 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.0 | 247 | 0.40 |
| | Tractors/Loaders/Backhoes | 4 | 8.0 | 97 | 0.37 |
| Grading | Excavators | 8 | 8.0 | 158 | 0.38 |
| | Graders | 4 | 8.0 | 187 | 0.41 |
| | Rubber Tired Dozers | 4 | 8.0 | 247 | 0.40 |
| | Scrapers | 8 | 8.0 | 367 | 0.48 |
| | Tractors/Loaders/Backhoes | 8 | 8.0 | 97 | 0.37 |
| Building Construction | Cranes | 4 | 7.0 | 231 | 0.29 |
| | Forklifts | 9 | 6.8 | 89 | 0.20 |
| | Generator Sets | 4 | 8.0 | 84 | 0.74 |
| | Tractors/Loaders/Backhoes | 9 | 7.0 | 97 | 0.37 |
| | Welders | 4 | 8.0 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.0 | 130 | 0.42 |
| | Paving Equipment | 2 | 8.0 | 132 | 0.36 |

| Construction Activity | Equipment | Equipment Amount | Average Hours per Day | Horsepower | Load Factor |
|-----------------------|-----------------|------------------|-----------------------|------------|-------------|
| | Rollers | 2 | 8.0 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.0 | 78 | 0.48 |

Source: CalEEMod Output (Appendix A).

A summary of the construction-related vehicle trips is shown in Table 8. Based on project applicant-provided information, during grading project site construction would balance on-site cut and fill. CalEEMod default values for trip lengths and vehicle fleets were used. Note that the total number of off-site construction vehicle trips would not necessarily occur on the same day, since construction activities would vary each day during the construction period. Table 8 includes trips during construction of off-site improvements.

Table 8: Construction Off-site Trips

| Construction Activity | Worker (Trips per day) | Vendor (Trips per day) | Haul (Total Trips) |
|----------------------------------|------------------------|------------------------|--------------------|
| Project Site Construction | | | |
| Demolition | 15 | 0 | 1 |
| Site Preparation | 23 | 0 | 0 |
| Grading | 28 | 0 | 0 |
| Building Construction | 206 | 77 | 0 |
| Paving | 33 | 0 | 0 |
| Architectural Coating | 7 | 0 | 0 |

Source: CalEEMod Output (Appendix A).

Fugitive Dust

During grading activities, fugitive dust can be generated from the movement of dirt on the project site. CalEEMod estimates dust from dozers moving dirt around, dust from graders or scrapers leveling the land, and loading or unloading dirt into haul trucks. The BAAQMD does not recommend a numerical threshold for fugitive dust particulate matter emissions. Instead, the BAAQMD bases the determination of significance for fugitive dust on a consideration of the control measures to be implemented. If all appropriate emissions control measures are implemented for a project as recommended by the BAAQMD, then fugitive dust emissions during construction are not considered significant.

4.3.2 - Operation

The major sources of operational emissions that would occur over the long-term operations of the proposed project are summarized below.

Motor Vehicles

Motor vehicle emissions refer to exhaust and road dust emissions from the motor vehicles that would travel to and from and within the project site. The regional emissions from the proposed project’s mobile sources were estimated using CalEEMod. The proposed project would primarily generate passenger vehicle trips from residents and visitors traveling to and from the project site. An estimate of the number of vehicle trips that the proposed project would generate was presented in the Hanson Lane Residential Development Traffic Impact Analysis (TIA) Report, as shown in Table 9. As shown in Table 9, the proposed project would generate approximately 839 daily passenger vehicle trips.

Table 9: Vehicle Trip Generation During Operations (Daily)

| Land Use | Size | Daily | | | AM Peak-hour | | | | PM Peak-hour | | | | |
|---|-------|-------|------------|------|--------------|-----------|-----------|-----------|--------------|--------|-----------|-----------|-----------|
| | | Rate | Trips | Rate | In:Out | In | Out | Total | Rate | In:Out | In | Out | Total |
| Proposed Uses | | | | | | | | | | | | | |
| Single-family Detached Housing (210) | 90 DU | 9.43 | 839 | 0.70 | 26:74 | 16 | 46 | 62 | 0.94 | 63:37 | 53 | 31 | 84 |
| Total | | | 839 | | | 16 | 46 | 62 | | | 53 | 31 | 84 |
| Notes: DU = dwelling unit Source: TJKM. 2022. Hanson Lane Residential Development Traffic Impact Analysis Report. February 4. | | | | | | | | | | | | | |

As noted in the TIA, although 90 dwelling units are shown in the trip generation estimate, the proposed project would develop 89 dwelling units. For the purpose of estimating emissions, it was assumed that the proposed project would generate 839 daily trips, consistent with the total number of daily trips indicated in the project-specific TIA.

Other Emission Sources

Area Sources

In addition to typical mobile- and energy-source emissions, long-term operational emissions also include area-source emissions. Area-source emissions include occasional architectural coating activities for repainting and maintenance of the single-family homes associated with the proposed project. CalEEMod assumes that repainting occurs at a rate of 10 percent of the buildings per year. Therefore, on average, it is assumed that the building would be fully repainted every 10 years.

Other area-source emissions include consumer products that involve solvents that emit VOCs during use. CalEEMod includes default consumer product use rates based on building square footage. The default emission factors developed for CalEEMod were used for consumer products associated with parking uses. Lastly, CalEEMod default emission factors for landscape maintenance equipment were used in this analysis.

Indirect Emissions

For GHG emissions, CalEEMod contains calculations to estimate indirect GHG emissions. Indirect emissions are emissions where the location of consumption or activity is different from where actual emissions are generated. For example, electricity would be consumed at the proposed project site; however, emissions associated with producing that electricity are generated off-site at a power plant.

CalEEMod includes calculations for indirect GHG emissions for electricity consumption, water consumption, and solid waste disposal. For water consumption, CalEEMod calculates embedded energy (e.g., treatment, conveyance, distribution) associated with providing each gallon of potable water to the project site. For solid waste disposal, CalEEMod calculates GHG emissions generated as solid waste generated by the proposed project decomposes in a landfill.

For electricity-related emissions, CalEEMod contains default electricity intensity factors for various utilities throughout California.

Refrigerants

During operation, there may be leakages of refrigerants (hydrofluorocarbons) from air conditioners and any refrigeration systems. Hydrofluorocarbons are typically used for refrigerants, which are long-lived GHGs. Any leakage of refrigerants associated with residential uses are expected to be minor; therefore, they were not estimated.

Vegetation

The project site is currently undeveloped and is heavily vegetated with grasses and shrubbery throughout the site. Therefore, there is currently some carbon sequestration occurring on-site. The project applicant proposes to plant trees and integrate landscaping into the project design, which would provide carbon sequestration. However, the number of trees to be planted is unknown and data are insufficient to accurately determine the impact that the existing landscaping has on carbon sequestration. For this analysis, it was assumed that the loss and addition of carbon sequestration that are due to the proposed project would be balanced; therefore, emissions due to carbon sequestration were not included.

SECTION 5: AIR QUALITY IMPACT ANALYSIS

This section calculates expected emissions from project construction and operation as a necessary requisite for assessing the regulatory significance of project emissions on a regional and local level. The methodology follows the BAAQMD CEQA and Federal Conformity Guidelines, which set forth recommended thresholds of significance and analysis methodologies and provides guidance on mitigating significant impacts.

5.1 - CEQA Guidelines

The CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine whether a project would have a significant impact on air quality, the type, level, and impact of emissions generated by the proposed project must be evaluated.

While the final determination of whether a project is significant is within the purview of the lead agency pursuant to Section 15064(b) of the CEQA Guidelines, the BAAQMD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. If the lead agency finds that the proposed project has the potential to exceed these air pollution thresholds, the proposed project would be considered to have significant air quality impacts.

5.1.1 - Thresholds of Significance

This analysis uses the air quality significance thresholds contained in Appendix G of the CEQA Guidelines. A significant impact would occur if the proposed project would:

- a) Conflict with or obstruct implementation of the applicable Air Quality Plan.
- b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard.
- c) Expose sensitive receptors to substantial pollutant concentrations.
- d) Create objectionable odors affecting a substantial number of people.

The BAAQMD CEQA Air Quality Guidelines were prepared to assist in evaluating air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air quality impacts during the environmental review process, consistent with CEQA requirements, and include recommended thresholds of significance, mitigation measures, and background air quality information. They also include recommended assessment methodologies for air toxics, odors, and GHGs.

In June 2010, the BAAQMD's Board of Directors adopted CEQA thresholds of significance and updated the CEQA Guidelines. These thresholds are designed to establish the level at which the BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA. The updated BAAQMD CEQA Air Quality Guidelines were amended in June 2011 to include a

risk and hazards threshold for new receptors and modified procedures for assessing impacts related to risk and hazard impacts. However, this later amendment regarding risk and hazards was the subject of the December 17, 2015, California Supreme Court decision (*California Building Industry Association v BAAQMD (2015) 62 Cal.4th 369*), which clarified that CEQA generally does not require an evaluation of impacts of the environment on a project’s future users or residents. The California Supreme Court also found that CEQA requires the analysis of exposing people to environmental hazards in specific circumstances, including the location of development near airports, schools near sources of toxic contamination, and certain exemptions for infill and workforce housing. Additionally, it also held that public agencies remain free to conduct this analysis regardless of whether CEQA requires it. The BAAQMD published a new version of the Guidelines in May 2017, including revisions noting the Supreme Court’s opinion.⁵⁹ This analysis was prepared using this latest version of the BAAQMD CEQA Guidelines.

Table 10 shows the BAAQMD’s criteria for regional significance for project construction and operation.

Table 10: BAAQMD Regional (Mass Emissions) Air Pollutant Significance Thresholds

| Pollutant | Construction | Operation | |
|--|--------------------------------------|--------------------------------------|--------------------------------------|
| | Average Daily Emissions (pounds/day) | Average Daily Emissions (pounds/day) | Maximum Annual Emissions (Tons/year) |
| ROG | 54 | 54 | 10 |
| NO _x | 54 | 54 | 10 |
| PM ₁₀ | 82 (Exhaust) | 82 | 15 |
| PM _{2.5} | 54 (Exhaust) | 54 | 10 |
| PM ₁₀ and PM _{2.5} Fugitive Dust | Best Management Practices | None | None |

Notes:
 NO_x = oxides of nitrogen
 PM₁₀ = particulate matter, including dust, 10 micrometers or less in diameter
 PM_{2.5} = particulate matter, including dust, 2.5 micrometers or less in diameter
 ROG = reactive organic gas
 Source: Bay Area Air Quality Management District (BAAQMD) 2017. California Environmental Quality Act Air Quality Guidelines. Accessed December 14, 2021.

If a project were to exceed the emissions in Table 10, emissions would cumulatively contribute to the nonattainment status and would contribute to elevating health effects associated with these criteria air pollutants. Known health effects related to ozone include worsening of bronchitis, asthma, and emphysema and a decrease in lung function. Health effects associated with particulate matter include premature death of people with heart or lung disease, nonfatal heart attacks, irregular

⁵⁹ Bay Area Air Quality Management District (BAAQMD). 2017. California Environmental Quality Act Air Quality Guidelines. Website: https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en. Accessed December 14, 2021.

heartbeat, decreased lung function, and increased respiratory symptoms. Reducing emissions would further contribute to reducing possible health effects related to criteria air pollutants. However, for projects that exceed the emissions thresholds shown in Table 10, it is speculative to determine how exceeding regional thresholds would affect the number of days the region is in nonattainment—as mass emissions are not linearly correlated with concentrations of emissions—or how many additional individuals in the Air Basin would be affected by the health effects cited above. The following sections will discuss the air quality impacts of the proposed project.

5.2 - Impact Analysis

5.2.1 - Consistency with Air Quality Management Plan

Impact AIR-1: **The proposed project could conflict with or obstruct implementation of the applicable Air Quality Plan.**

Impact Analysis

The Air Basin is designated as nonattainment for CAAQS for 1 hour and 8-hour ozone, 24-hour PM₁₀, annual PM₁₀, and annual fine particulate matter (PM_{2.5}) and the NAAQS for 8-hour ozone and PM_{2.5}.⁶⁰ To address regional air quality standards, the BAAQMD has adopted several air quality policies and plans, the most recent of which is the 2017 Clean Air Plan. The 2017 Clean Air Plan was adopted in April 2017 and serves as the regional AQP for the Air Basin for attaining federal ambient air quality standards. The primary goals of the 2017 Clean Air Plan are to protect public health and protect the climate. The 2017 Clean Air Plan acknowledges that the BAAQMD's two stated goals of protection are closely related. As such, the 2017 Climate Action Plan (CAP) identifies a wide range of control measures intended to decrease both criteria pollutants⁶¹ and GHGs.⁶²

The BAAQMD does not provide a numerical threshold of significance for the project-level consistency analysis with AQPs. Therefore, the following criteria are used for determining a project's consistency with the 2017 Clean Air Plan.

- **Criterion 1:** Does the project support the primary goals of the AQP?
- **Criterion 2:** Will the project conform to the assumptions in the AQPs?
- **Criterion 3:** Does the project disrupt or hinder implementation of any AQP control measures?

Criteria 1: Support Primary Goals of AQP

The primary goals of the 2017 Clean Air Plan, the current AQP to date, are to:

- Attain air quality standards;
- Reduce population exposure to unhealthy air and protecting public health in the Bay Area; and
- Reduce GHG emissions and protect the climate.

⁶⁰ Bay Area Air Quality Management District (BAAQMD). 2017. Air Quality Standards and Attainment Status. Website: <http://www.baaqmd.gov/about-air-quality/research-and-data/air-quality-standards-and-attainment-status>.

⁶¹ The EPA has established NAAQS for six of the most common air pollutants—carbon monoxide, lead, ground level ozone, particulate matter, nitrogen dioxide, and sulfur dioxide—known as “criteria” air pollutants (or simply “criteria pollutants”).

⁶² A GHG is any gaseous compound in the atmosphere that is capable of absorbing infrared radiation, thereby trapping and holding heat in the atmosphere. By increasing the heat in the atmosphere, GHGs are responsible for the greenhouse effect, which ultimately leads to global warming.

Measures for determining whether the proposed project supports the primary goals of the AQP include whether the proposed project would not result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the air quality plans. These measures are determined by comparison to the regional and localized thresholds identified by the BAAQMD for construction- and operational-related pollutants, which are used in the evaluation of Impact AIR-2, below. As discussed under Impacts AIR-2 and AIR-3, the proposed project would not significantly contribute to cumulative nonattainment pollutant violations or expose sensitive receptors to substantial pollutant concentrations after incorporation of mitigation. Fugitive dust control measures would be required to be implemented during construction of the proposed project in order to reduce localized dust impacts. Impacts related to fugitive dust from the construction of the proposed project would be potentially significant without the inclusions of sufficient dust control measures. Mitigation Measure (MM) AIR-1 requires the inclusion of BMPs recommended by the BAAQMD to reduce potential impacts related to fugitive dust emissions from use of construction equipment. The proposed project is, therefore, consistent with Criterion 1 after incorporation of MM AIR-1.

Criteria 2: Assumptions in AQP

A measure for determining whether a project is consistent with the AQP is to determine whether the proposed project is inconsistent with the growth assumptions incorporated into the AQP and thus, whether it would interfere with the region's ability to comply with federal and California air quality standards. The development of the AQP is based, in part, on the land use general plan determinations of the various cities and counties that constitute the Air Basin. The Brentwood General Plan was adopted in 2014, prior to adoption of the BAAQMD's 2017 Clean Air Plan.⁶³ The General Plan designates the project site as Residential Low Density (R-LD) and zoned as "Planned Development-71" (PD-71) by the Brentwood Zoning Ordinance.

The R-LD land use designation is designed for single-family detached houses with a permitted density range of 1.1 to 5.0 dwelling units per gross acre. The Zoning Ordinance describes the intention of the PD-71 zoning designation is to develop detached single-family residential, duets, park, and open space uses.⁶⁴ The proposed project would develop 89 single-family homes on a 19.8 acre project site, which would result in 4.5 dwelling units per acre.⁶⁵ As such, the proposed project would include a land use and density that was contemplated in the applicable General Plan. Further, the proposed project would conform to the minimum setbacks, height limits, and floor area ratio (FAR) requirements for the R-LD designation. Therefore, the proposed project would be consistent with the General Plan and would not directly or indirectly result in substantial unplanned population growth. Thus, the overall development of the project site would generally be consistent with the growth assumptions incorporated into the 2017 Clean Air Plan as well.

⁶³ City of Brentwood. 2014. City of Brentwood General Plan Update. Website: <https://www.brentwoodca.gov/civicax/filebank/blobdload.aspx?BlobID=52464>. Accessed December 2, 2021.

⁶⁴ City of Brentwood. 2008. Brentwood Municipal Code – Chapter 17.521.001. Website: http://qcode.us/codes/brentwood/view.php?topic=17-viii-17_521-17_521_001&frames=on. Accessed December 2, 2021.

⁶⁵ Calculation: 89 dwelling units/19.8 acres = 4.49 units per acre.

The AQPs also assume that all mandatory regulations to reduce air pollution would be adhered to. Therefore, to conform to the assumptions in the AQP, a project must be consistent with all applicable measures contained in the applicable AQP. The 2017 Clean Air Plan contains 85 control measures aimed at reducing air pollutants and GHGs at the local, regional, and global levels. Along with the traditional stationary, area, mobile source, and transportation control measures, the 2017 Clean Air Plan contains a number of control measures designed to protect the climate and promote mixed use, compact development to reduce vehicle emissions and exposure to pollutants from stationary and mobile sources. The 2017 Clean Air Plan also includes an account of the implementation status of control measures identified in the 2010 Clean Air Plan.

Table 11 lists the Clean Air Plan policies relevant to the proposed project and evaluates the proposed project’s consistency with the policies. As shown below, the proposed project would be consistent with all applicable measures.

Table 11: Project Consistency with Applicable Clean Air Plan Control Measures

| Control Measure | Project Consistency |
|---|---|
| Stationary Control Measures | |
| SS29: Asphaltic Concrete | Consistent. Paving activities associated with the proposed project would be required to utilize asphalt that does not exceed BAAQMD emission standards. |
| SS36: Particulate Matter from Trackout | Consistent. Mud and dirt that may be tracked out onto the nearby public roads during construction activities shall be removed promptly by the contractor based on BAAQMD requirements. MM AIR-1 requires the proposed project to implement BMPs recommended by the BAAQMD for fugitive dust emissions during construction. |
| SS37: Particulate Matter from Asphalt Operations | Consistent. Paving and roofing activities associated with the proposed project would be required to utilize BMPs to minimize the particulate matter created from the transport and application of road and roofing asphalt. |
| SS38: Fugitive Dust | Consistent. Material stockpiling and trackout during grading activities as well as smoke and fumes from paving and roofing asphalt operations shall utilize BMPs to minimize the creation of fugitive dust. |
| Buildings Control Measures | |
| BL4: Urban Heat Island Mitigation | Consistent. The proposed project would provide landscaping and plant shade trees that would serve to reduce the urban heat island effect. |
| Energy Control Measures | |
| EN2: Decrease Energy Use | Consistent. The project applicant would be required to conform to the energy efficiency requirements of the California Green Building Standards Code |

| Control Measure | Project Consistency |
|--|--|
| | (CALGreen), also known as Title 24, which was adopted in order to meet an Executive Order in the Green Building Initiative to improve the energy efficiency of buildings through aggressive standards. Specifically, new development must implement the requirements of the most recent Building Energy Efficiency Standards, which is the current version of Title 24. The proposed project would include solar panels on all building roofs be designed to include sufficient electric charging for passenger vehicles to plug in. The 2019 Building Efficiency Standards went into effect on January 1, 2020. |
| Natural and Working Lands Control Measures | |
| NW2: Urban Tree Planting | Consistent. The proposed project would provide landscaping and plant trees throughout the project site. Further, the proposed project would include a park, open space area, and trails that would include landscaping and low water demand vegetation. |
| Transportation Control Measures | |
| TR9: Bicycle and Pedestrian Access and Facilities | Consistent. The proposed project would include sidewalks along all interior roadways that would connect to adjacent roadways, except for Bonita Way, which would be an EVA access road. The proposed project would include a multiuse trail that would extend south from the project site to Homecoming Park. Additionally, the proposed project would extend sidewalks on Hanson Lane from the project site. |

In summary, the proposed project would not conflict with any applicable measures under the 2017 Clean Air Plan after the implementation of the BMPs recommended by the BAAQMD for fugitive dust emissions during construction. In addition, the overall development of the project site would be consistent with the growth assumptions incorporated into the AQP. Considering this information, the proposed project would be consistent with Criterion 2 after the implementation of MM AIR-1.

Criteria 3: Control Measures

The proposed project would not preclude extension of a transit line or bicycle path, propose excessive parking beyond parking requirements, or otherwise create an impediment or disruption to implementation of any AQP control measures. As shown in Table 11 above, the proposed project would incorporate several AQP control measures as project design features. Moreover, the proposed project would improve bicycle access by providing a multiuse trail from the project site to Homecoming Park, which connects to the Marsh Creek Regional Trail. Considering this information, the proposed project would not disrupt or hinder implementation of any AQP control measures. The proposed project is therefore consistent with Criterion 3.

Summary

In summary, the proposed project would be consistent with all three criteria after implementation of MM AIR-1. The proposed project would not conflict with the 2017 Clean Air Plan after incorporation of mitigation. Therefore, impacts associated with conflicting with or obstructing implementation of the 2017 Clean Air Plan would be less than significant with implementation of mitigation.

Level of Significance Before Mitigation

Potentially significant impact.

Mitigation Measures

MM AIR-1 During construction activities, the following Best Management Practices (BMPs) shall be implemented:

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

Level of Significance After Mitigation

Less than significant impact.

5.2.2 - Cumulative Impacts

Impact AIR-2: **The proposed project could result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality (including releasing emissions which exceed quantitative thresholds for ozone precursors).**

Impact Analysis

This impact is related to the cumulative effect of a project's regional criteria pollutant emissions. By its nature, air pollution is largely a cumulative impact resulting from emissions generated over a large geographic region. The nonattainment status of regional pollutants is a result of past and present development within the Air Basin, and this regional impact is a cumulative impact. Therefore, new development projects (such as the proposed project) within the Air Basin would contribute to this impact only on a cumulative basis. No single project would be sufficient in size, by itself, to result in nonattainment of regional air quality standards. Instead, a project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development projects.

Potential localized and regional impacts would result in exceedances of State or federal standards for NO_x, particulate matter (PM₁₀ and PM_{2.5}), or CO. NO_x emissions are of concern because of potential health impacts from exposure to NO_x emissions during both construction and operation and as a precursor in the formation of airborne ozone. PM₁₀ and PM_{2.5} are of concern during construction because of the potential to emit exhaust emissions from the operation of off-road construction equipment and fugitive dust during earth-disturbing activities (construction fugitive dust). CO emissions are of concern during project operation because operational CO hotspots are related to increases in on-road vehicle congestion.

ROG emissions are also important because of their participation in the formation of ozone. Ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and that can cause substantial damage to vegetation and other materials. Elevated ozone concentrations result in reduced lung function, particularly during vigorous physical activity. This health problem is particularly acute in sensitive receptors such as the sick, elderly, and young children.

The cumulative analysis focuses on whether a specific project would result in cumulatively considerable emissions. According to Section 15064(h)(4) of the CEQA Guidelines, the existence of significant cumulative impacts caused by other projects alone does not constitute substantial evidence that the proposed project's incremental effects would be cumulatively considerable. Rather, the determination of cumulative air quality impacts for construction and operational emissions is based on whether the proposed project would result in regional emissions that exceed the BAAQMD regional thresholds of significance for construction and operations on a project level. The thresholds of significance represent the allowable amount of emissions each project can generate without generating a cumulatively considerable contribution to regional air quality impacts. Therefore, a project that would not exceed the BAAQMD thresholds of significance on the project level also would not be considered to result in a cumulatively considerable contribution to these regional air quality impacts. Construction and operational emissions are discussed separately below.

Construction Emissions

During construction, fugitive dust would be generated from site grading and other earthmoving activities. The majority of this fugitive dust would remain localized and would be deposited near the project site. However, the potential for impacts from fugitive dust exists unless control measures are implemented to reduce the emissions from this source. Exhaust emissions would also be generated from the operation of off-road construction equipment, such as forklifts, excavators, and cranes.

Construction Fugitive Dust

The BAAQMD does not recommend a numerical threshold for fugitive dust particulate matter emissions. Instead, the BAAQMD bases the determination of significance for fugitive dust on a consideration of the control measures to be implemented. If all appropriate emissions control measures are implemented for a project as recommended by the BAAQMD, then fugitive dust emissions during construction are not considered significant. During construction activities, air pollution control measures shall be implemented as outlined in MM AIR-1, which would require BMPs, such as watering the project site twice per day and limiting on-site vehicles speeds to 15 miles per hour (mph). With incorporation of this condition, short-term construction impacts associated with violating an air quality standard or contributing substantially to an existing or projected air quality violation would be less than significant.

Construction Air Pollutant Emissions: ROG, NO_x, PM₁₀, and PM_{2.5}

CalEEMod, Version 2020.4.0, was used to estimate the proposed project's construction emissions. CalEEMod provides a consistent platform for estimating construction and operational emissions from a wide variety of land use projects and is the model recommended by the BAAQMD for estimating project emissions. Estimated construction emissions are compared with the applicable thresholds of significance established by the BAAQMD to assess ROG, NO_x, exhaust PM₁₀, and exhaust PM_{2.5} construction emissions to determine significance for this criterion.

As shown in Table 6, the proposed project would be constructed in one phase starting with demolition in September 2022 and concluding with architectural coating activity in June 2024. Project construction would involve demolition, site preparation, grading, paving, building construction, and architectural coating activities. In addition, project construction would also include grading and paving activities associated with off-site improvements, such as 0.74 acres of paved surfaces for a trail and a sidewalk extending off-site to Hanson Lane. For a more detailed description of the construction parameters used in estimating air pollutant emissions, please refer to Appendix A.

The calculations of pollutant emissions from the construction equipment account for the type of equipment, horsepower, and load factors of the equipment, along with the duration of use. Average daily construction emissions are compared with the significance thresholds in Table 10. Table 12 illustrates the proposed project's construction emissions compared to the BAAQMD thresholds.

Table 12: Annual Unmitigated Construction Emissions (tons/year)

| Parameter | Air Pollutants ¹ | | | |
|---|-----------------------------|-----------|----------------|-----------------|
| | ROG | NOX | PM10 (Exhaust) | PM2.5 (Exhaust) |
| Project Construction | | | | |
| 2022–Demolition | 0.08 | 0.81 | 0.04 | 0.04 |
| 2022–Site Preparation (includes Off-Site Improvements) | 0.07 | 0.68 | 0.03 | 0.03 |
| 2023–Site Preparation | 0.04 | 0.41 | 0.02 | 0.02 |
| 2022–Grading (Off-site Improvements) | 0.00 | 0.01 | 0.00 | 0.00 |
| 2023–Grading | 0.08 | 0.81 | 0.03 | 0.03 |
| 2023–Building Construction | 0.12 | 0.96 | 0.05 | 0.04 |
| 2024–Building Construction | 0.17 | 1.36 | 0.05 | 0.05 |
| 2022–Paving (Off-Site Improvements) | 0.00 | 0.01 | 0.00 | 0.00 |
| 2023–Paving | 0.05 | 0.43 | 0.02 | 0.02 |
| 2022–Architectural Coating (Off-Site Improvements) | 0.01 | 0.00 | 0.00 | 0.00 |
| 2024–Architectural Coating | 1.88 | 0.04 | 0.00 | 0.00 |
| <i>Total Emissions (tons/year)</i> | 2.50 | 5.54 | 0.24 | 0.23 |
| Total Emissions (lbs/year) | 5,001 | 11,076 | 486 | 455 |
| Average Daily Emissions (lbs/day)² | 10.55 | 23.37 | 1.03 | 0.96 |
| Significance Threshold (lbs/day) | 54 | 54 | 82 | 54 |
| Exceeds Significance Threshold? | No | No | No | No |
| Notes: lbs = pounds NO _x = oxides of nitrogen PM ₁₀ = particulate matter 10 microns in diameter PM _{2.5} = particulate matter 2.5 microns in diameter ROG = reactive organic gases ¹ Calculations use unrounded totals. ² Calculated by dividing the total lbs of emissions by the total number of working days of construction (474). Source: CalEEMod Output (see Appendix A). | | | | |

As shown in Table 12, the construction emissions from all construction activities are below the recommended thresholds of significance; therefore, the construction of the proposed project would have less than significant impact in regard to emissions of ROG, NOX, exhaust PM10, and exhaust PM2.5. As previously discussed, the proposed project would implement MM AIR-1 for BMPs

recommended by the BAAQMD to reduce potential impacts related to fugitive dust emissions from use of the construction equipment. Therefore, project construction would have a less than significant impact.

Operational Emissions

Operational Air Pollutant Emissions: ROG, NO_x, PM₁₀, and PM_{2.5}

Operational emissions would include area, energy, and mobile sources. Area sources would include emissions from architectural coatings, consumer products, and landscape equipment. Energy sources include emissions from the combustion of natural gas for water heaters and other heat sources. Mobile sources include exhaust and road dust emissions from the automobiles that would travel to and from the project site. Pollutants of concern include ROG, NO_x, PM₁₀, and PM_{2.5}.

Based on the construction schedule provided in Table 6, full project buildout is anticipated directly following project construction in July 2024. As 2024 is anticipated to be the earliest year of operations, project operations were analyzed for full project buildout in the 2024 operational year to provide a reasonably conservative estimate of emissions. The major sources for existing and proposed operational emissions of ROG, NO_x, PM₁₀, and PM_{2.5} include motor vehicle traffic, use of natural gas, and the occasional repainting of buildings. For detailed assumptions used to estimate emissions, please see Appendix A. Table 13 illustrates the estimated maximum daily emissions from project operations and Table 14 shows the annual emissions from project operations.

Table 13: Average Daily Operational Emissions (Unmitigated)

| Emissions Source | ROG | NO _x | PM ₁₀ | PM _{2.5} |
|---|-------------|-----------------|------------------|-------------------|
| Annual Emissions (lbs) | 3,216.80 | 1,120.42 | 1,477.32 | 432.64 |
| Average Daily Project Emissions (lbs/day) | 8.81 | 3.07 | 4.05 | 1.19 |
| Thresholds of Significance (lbs/day) | 54 | 54 | 82 | 54 |
| Exceeds Significance Threshold? | No | No | No | No |
| Notes: NO _x = nitrous oxides. PM ₁₀ = particulate matter 10 microns or less in diameter PM _{2.5} = particulate matter 2.5 microns or less in diameter ROG = reactive organic gases ¹ Totals may not add up due to rounding. Calculations use unrounded results. Source: CalEEMod Output (see Appendix A). | | | | |

Table 14: Annual Operational Emissions (Unmitigated)

| Emissions Source | Tons per Year | | | |
|------------------|---------------|-----------------|------------------|-------------------|
| | ROG | NO _x | PM ₁₀ | PM _{2.5} |
| Area | 1.23 | 0.01 | 0.00 | 0.00 |
| Energy | 0.02 | 0.16 | 0.01 | 0.01 |

| Emissions Source | Tons per Year | | | |
|---|---------------|-----------------|------------------|-------------------|
| | ROG | NO _x | PM ₁₀ | PM _{2.5} |
| Mobile | 0.36 | 0.39 | 0.72 | 0.21 |
| Annual Project Emissions¹ | 1.61 | 0.56 | 0.74 | 0.22 |
| Thresholds of Significance | 10 | 10 | 15 | 10 |
| Exceeds Significance Threshold? | No | No | No | No |
| Notes: ROG = reactive organic gases NO _x = oxides of nitrogen PM ₁₀ = particulate matter 10 microns or less in diameter PM _{2.5} = particulate matter 2.5 microns or less in diameter ¹ Totals may not add up due to rounding. Calculations use unrounded results. Source: CalEEMod Output (see Appendix A). | | | | |

As shown in Table 13 and Table 14, the proposed project would not result in operational-related air pollutants or precursors that would exceed the BAAQMD’s thresholds of significance, indicating that ongoing project operations would not be considered to have the potential to generate a significant quantity of air pollutants. Therefore, long-term operational impacts associated with criteria pollutant emissions would be less than significant.

Operational Carbon Monoxide Hotspot

The CO emissions from traffic generated by the proposed project are a concern at the local level. Congested intersections can result in high, localized concentrations of CO.

The BAAQMD recommends a screening analysis to determine whether a project has the potential to contribute to a CO hotspot. The screening criteria identify when site-specific CO dispersion modeling is necessary. The proposed project would result in a less than significant impact to air quality for local CO if the following screening criteria are met:

1. The proposed project is consistent with an applicable congestion management program established by the County Congestion Management Agency for designated roads or highways, Regional Transportation Plan, and local congestion management agency plans; or
2. The project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour; or
3. The project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway).

As indicated in the Draft TIA Report,⁶⁶ the proposed project would not conflict with the level of service standards set forth under the City of Brentwood General Plan and Contra Costa Transportation Authority (CCTA) Congestion Management Program. No intersections impacted by

⁶⁶ TJKM. February 4, 2022. Hanson Lane Residential Project Draft Traffic Impact Analysis Report.

the proposed project would experience traffic volumes of 44,000 vehicles per hour. According to the TIA, during the Cumulative Plus Project scenario the intersection of Brentwood Boulevard Avenue and Hanson Lane would experience 2,166 peak-hour traffic volumes. The only other intersection analyzed in the TIA was Brentwood Boulevard and Lone Tree Way intersection, which would experience 2,741 peak-hour trips. As a result, neither of the intersections analyzed in the TIA would experience traffic volumes in excess of 44,000 vehicles per hour. Furthermore, the adjacent roadways are not located in an area where vertical or horizontal atmospheric mixing is substantially limited, such as a tunnel or freeway overpass. Therefore, based on the above criteria, the proposed project would not exceed the CO screening criteria and would have a less than significant impact related to CO.

Level of Significance

Less than significant impact.

5.2.3 - Sensitive Receptors

Impact AIR-3: **The proposed project could expose sensitive receptors to substantial pollutant concentrations.**

Impact Analysis

A sensitive receptor is defined by the BAAQMD as the following: “Facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples include schools, hospitals, and residential areas.” Sensitive receptors within 1,500 feet of the project site include:

- Single-family homes located adjacent to the west, north, and south of the project site.
- An assisted living facility is located 1,200 feet northwest of the project site.
- A family day care center is located on Hanson Lane which is 420 feet west of the project site, and this facility would be modeled as a residential home.

The following four criteria were applied to determine the significance of project emissions to sensitive receptors:

- **Criterion 1:** Construction of the proposed project would not result in an exceedance of the health risk significance thresholds.
- **Criterion 2:** The cumulative health impact would not result in an exceedance of the cumulative health risk significance thresholds.
- **Criterion 3:** Operation of the proposed project would not result in an exceedance of the health risk significance thresholds.
- **Criterion 4:** A CO hotspot assessment must demonstrate that the proposed project would not result in the development of a CO hotspot that would cause an exceedance of the CO ambient air quality standards.

Criterion 1: Project Construction Toxic Air Pollutants

An assessment was made of the potential health impacts to surrounding sensitive receptors resulting from the emissions of TAC during construction. A summary of the assessment is provided below, while the detailed assessment is provided in Appendix A.

DPM has been identified by the ARB as a carcinogenic substance. Major sources of DPM include off-road construction equipment and heavy duty delivery truck and worker activities. For purposes of this analysis, DPM is represented as exhaust emissions of PM_{2.5}.

Estimation of Construction DPM Emissions

Construction DPM emissions (represented as PM_{2.5} exhaust) were estimated using CalEEMod, Version 2020.4.0. Construction would occur in one phase beginning in September 2022 and concluding in June 2024. The construction emissions were assumed to be distributed over the project area with a working schedule of 8 hours per day, 5 days per week. Emissions modeled for 8 hours each day, 5 days per week were adjusted by a factor of 4.2 to convert for use with a 24-hour-per-day, 365 day-per-year averaging period.

Estimation of Cancer Risks

The BAAQMD has developed a set of guidelines for estimating cancer risks that provide adjustment factors that emphasize the increased sensitivities and susceptibility of young children to exposures to TACs.⁶⁷ These adjustment factors include age-sensitivity weighting factors, age-specific daily breathing rates, and age-specific time-at-home factors. The recommended method for the estimation of cancer risk, consistent with BAAQMD and 2015 California Office of Environmental Health Hazards Assessment (OEHHA) guidance, is shown in Appendix A.

Estimation of Non-Cancer Chronic Hazards

TACs can also cause chronic (long-term) effects related to non-cancer illnesses such as reproductive effects or birth defects, or adverse environmental effects. Non-cancer health risks are conveyed in terms of the hazard index (HI), a ratio of the predicted concentration of the facility's reported TAC emissions to a concentration considered acceptable to public health professionals. A significant risk is defined as an HI of 1 or greater. An HI of less than 1 indicates that no significant health risks are expected from the facility's TAC emissions. The relationship for the non-cancer hazards of TACs is given by the following equation:

$$HI = C_{ann}/REL$$

Where:

HI = Hazard Index: an expression of the potential for chronic non-cancer health risks
C_{ann} = Annual average TAC concentration (µg/m³)

⁶⁷ Bay Area Air Quality Management District (BAAQMD). 2017. California Environmental Quality Act Air Quality Guidelines. May. Website: https://www.baaqmd.gov/~media/files/planning-and_research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en. Accessed March 14, 2022.

REL = Reference Exposure Level: the DPM concentration at which no adverse health effects are anticipated

Annual concentrations of DPM as predicted by the air dispersion model are used to estimate chronic non-cancer hazards. The OEHHA has defined a REL for DPM of 5 µg/m³.

Estimation of Health Risks and Hazards from Project Construction

To assess impacts to off-site sensitive receptors, receptor locations within the American Meteorological Society/EPA Regulatory Model (AERMOD) model were placed at locations of existing residences, parks, and churches located within approximately 1,000 feet of the project boundary. As a residential project, future residents within the proposed project would be considered air pollution sensitive receptors once operational. Construction of the proposed project is assumed to start in September 2022 and conclude in June 2024 and would occur one phase.

The grading activities and site preparation activities would generate the greatest amount of emissions during construction. These activities would occur for the entire site, prior to the occupancy of any homes constructed as part of the proposed project. Construction activities would then include primarily include building construction, paving, landscaping, and architectural coatings. Based on applicant-provided information, no overlap of construction and building occupancy would occur. Therefore, future on-site residents were not included as potential receptors during construction of the proposed project.

The estimated health and hazard impacts from construction emissions at the Maximum Impacted Sensitive Receptor (MIR) in each scenario are provided in Table 15. It should be noted that inclusion of MM AIR-1 only reduces fugitive PM_{2.5} and does not reduce emissions of PM_{2.5} exhaust.

Table 15: Estimated Health Risks and Hazards—Project Construction

| Scenario | Age Group | Cancer Risk (risk per million) | Chronic Non-Cancer Hazard Index ¹ | Annual PM2.5 Concentration (µg/m ³) |
|---|-----------|--------------------------------|--|---|
| Off-site Receptors Exposed to Construction Duration | Infant | 5.61 | 0.008 | 0.041 |
| | Child | 1.93 | 0.008 | 0.041 |
| | Adult | 0.21 | 0.008 | 0.041 |
| Highest from Any Scenario | | | | |
| Risks and Hazards from any Scenario | | 5.61 | 0.008 | 0.041 |
| BAAQMD Thresholds of Significance | | 10 | 1 | 0.3 |
| Exceeds Individual Source Threshold? | | No | No | No |
| Notes: µg/m ³ = micrograms per cubic meter BAAQMD = Bay Area Air Quality Management District ¹ Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as PM _{2.5} exhaust) by the reference exposure level of 5 µg/m ³ . Source: Appendix A. | | | | |

As shown above in Table 15, the proposed project's construction DPM emissions would not exceed the BAAQMD's cancer risk, chronic non-cancer HI, and annual PM_{2.5} thresholds of significance at the maximum impacted receptor in any of the scenarios analyzed. Therefore, the proposed project's construction emissions would not result in significant health impacts to nearby sensitive receptors.

Criterion 2: Cumulative Health Risk Assessment

The BAAQMD recommends assessing the potential cumulative impacts from sources of TACs within 1,000 feet of a project. For a project-level analysis, BAAQMD provides several tools for use in screening potential sources of TACs. The BAAQMD-provided tools used to assess the potential cumulative impacts from TACs are described below:

- **Health Risks for Local Roadways.** The BAAQMD pre-calculated concentrations and the associated potential cancer risks and PM_{2.5} concentration increases for each county within their jurisdiction for roadways that carry at least 30,000 average daily trips. For certain areas, the BAAQMD also included local roadways that meet BAAQMD's "major roadway" criteria of 10,000 vehicles or 1,000 trucks per day. The latest available screening tool is in the form of a Geographic Information System (GIS) raster file.
- **Freeway Screening Analysis Tool.** The BAAQMD prepared a GIS tool that contains pre-estimated cancer risk and PM_{2.5} concentration increases for highways within the Bay Area. Local planners and lead agencies can use this application to determine whether a project may be adversely impacted from freeways and determine if further modeling is needed.⁶⁸ Risks are assessed by roadway volume, roadway direction, and distance to sensitive receptors. The segment of Brentwood Boulevard between Lone Tree Way and Hanson Lane is estimated to accommodate approximately 1,812 peak PM hour trips and is located approximately 1,300 feet west of the project boundary. As described above, the proposed project is not located within 1,000 feet of a freeway, such as Highway 4, and as such would not result in exposing sensitive receptors to substantial health risks.
- **Stationary Source Risk and Hazard Screening Tools.** The BAAQMD prepared a GIS tool²⁷ with the location of permitted sources. For each emissions source, the BAAQMD provides conservative estimates of cancer risk and PM_{2.5} concentrations. Based on information from the GIS tool, there are four BAAQMD-permitted stationary sources exist within 1,000 feet of the project site.⁶⁹ The impacts of these stationary sources are discussed further in this impact analysis.
- **Rail Screening Tools.** The BAAQMD prepared GIS tools that contains estimated cancer risks and PM_{2.5} concentrations from railroad operations at any point within the Air Basin. The closest railroad is located 1.34 miles to the northeast of the project site.

⁶⁸ Bay Area Air Quality Management District (BAAQMD). 2012. Recommended Methods for Screening and Modeling Local Risks and Hazards.

⁶⁹ Bay Area Air Quality Management District (BAAQMD). Permitted Sources Risk and Hazards Map Tool. 2022. Website: <https://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/ceqa-tools>. Accessed March 8, 2022.

Cumulative Health Risk Assessment at the Maximum Impacted Sensitive Receptor

A cumulative Health Risk Assessment (HRA) was performed that examined the cumulative impacts of the proposed project’s construction emissions and sources of TAC emissions within 1,000 feet of the project site.

The cumulative health risk results, including health risks from the existing stationary source, are summarized during project construction in Table 16. Cumulative health risk results shown therein are representative of the health risks to the MIR which would experience the highest concentration of pollutants.

Table 16: Summary of the Cumulative Health Impacts at the MIR during Construction

| Source | Source Type | Cancer Risk (per million) | Chronic HI | PM _{2.5} Concentration (mg/m ³) |
|--|---|---------------------------|--------------|--|
| Project Construction | | | | |
| Project Construction | Diesel Construction Equipment | 5.61 | 0.008 | 0.041 |
| Existing Stationary Sources (BAAQMD Facility Number)¹ | | | | |
| City of Brentwood Wastewater Treatment Plan (15789) | Wastewater Treatment | 23.99 | 0.040 | 0.219 |
| Antioch Building Materials (18249) | Ready-Mix Concrete Manufacturing Operations | 0.00 | 0.000 | 36.275 |
| Existing Roadways | | | | |
| Existing Local Roadways (>30,000 Annual Average Daily Trips) | | 0.35 | ND | 0.006 |
| Existing Highways | | | | |
| Existing Highways | | 7.20 | ND | 0.087 |
| Existing Rail | | | | |
| Existing Railways | | 0.34 | ND | 0.001 |
| Cumulative Health Risks without Project Construction | | | | |
| Cumulative Total at the MIR from Existing Sources | | 31.88 | 0.040 | 36.588 |
| BAAQMD’s Cumulative Thresholds of Significance | | 100 | 10 | 0.8 |
| Threshold Exceedance? | | No | No | Yes |
| Cumulative Health Risks with Project Construction | | | | |
| Cumulative Total with Project Construction | | 37.49 | 0.048 | 36.629 |
| BAAQMD’s Cumulative Thresholds of Significance | | 100 | 10 | 0.8 |
| Threshold Exceedance? | | No | No | Yes |
| Notes: BAAQMD = Bay Area Air Quality Management District mg/m ³ = micrograms per cubic meter MIR = Maximally Impacted Sensitive Receptor | | | | |

| Source | Source Type | Cancer Risk (per million) | Chronic HI | PM _{2.5} Concentration (mg/m ³) |
|--|-------------|------------------------------|---------------|--|
| ND = no data available ¹ Assumes emissions remain constant with time. Source: Appendix A. | | | | |

As noted in Table 16, the cumulative impacts from construction of the proposed project and existing sources of TACs would exceed the BAAQMD’s cumulative threshold of significance for concentrations of PM_{2.5}; however, the existing sources exceed the cumulative thresholds without the project’s contribution. As outlined in MM AIR-3, mitigation requiring the use of construction equipment meeting Tier 4 standards is recommended to reduce impacts to sensitive receptors during project construction. As the project’s incremental contribution would not exceed the project-generator thresholds (see Table 15) and the project would reduce its potential to exacerbate existing adverse conditions through the implementation of MM AIR-3, project-related emissions would not result in significant health impacts to nearby sensitive receptors during construction.

Cumulative HRA at the Project Site During Operations

The proposed project would locate new sensitive receptors (residents) that could be subject to existing sources of TACs at the project site. However, the California Supreme Court concluded in *California Building Industry Association v. BAAQMD* that agencies generally subject to CEQA are not required to analyze the impact of existing environmental conditions on a project’s future users or residents. But when a proposed project risks exacerbating those environmental hazards or conditions that already exist, an agency must analyze the potential impact of such hazards on future residents or users. In those specific instances, it is the project’s impact on the environment—and not the environment’s impact on the project—that compels an evaluation of how future residents or users could be affected by exacerbated conditions.” Although the Court ruled that impacts from the existing environment on projects are not required to be addressed under CEQA, land uses such as gasoline stations, dry cleaners, distribution centers, and auto body shops can expose residents to high levels of TAC emissions if they are in proximity of the project site. Information regarding the location of existing TAC sources is provided for disclosure purposes only and not as a measure of the project’s significance under CEQA.

The BAAQMD recommends assessing the potential cumulative impacts from sources of TACs within 1,000 feet of a project. As a result, a cumulative HRA was performed using BAAQMD-provided screening tools that examined the cumulative impacts of sources of TAC emissions within 1,000 feet of the project.

Table 17 summarizes the cumulative health impacts at the project site at project buildout.

Table 17: Cumulative Operational Air Quality Health Impacts at the Project Site

| Source | Source Type | Cancer Risk (per million) | Chronic HI | PM _{2.5} Concentration (mg/m ³) |
|---|---|---------------------------|-------------|--|
| Existing Stationary Sources (BAAQMD Facility Number)¹ | | | | |
| City of Brentwood Wastewater Treatment Plan (15789) | Wastewater Treatment | 23.99 | 0.040 | 0.219 |
| Antioch Building Materials (18249) | Ready-Mix Concrete Manufacturing Operations | 0.00 | 0.000 | 36.275 |
| Existing Roadways | | | | |
| Existing Local Roadways (>30,000 Annual Average Daily Trips) | | 0.35 | ND | 0.006 |
| Existing Highways | | | | |
| Existing Highways | | 7.20 | ND | 0.087 |
| Existing Rail | | | | |
| Existing Railways | | 0.34 | ND | 0.001 |
| Cumulative Health Risks | | | | |
| Cumulative Total | | 31.88 | 0.04 | 36.588 |
| BAAQMD’s Cumulative Thresholds of Significance | | 100 | 10 | 0.8 |
| Threshold Exceedance? | | No | No | Yes |
| Notes: BAAQMD = Bay Area Air Quality Management District mg/m ³ = micrograms per cubic meter HI = Hazard Index ND = no data available ¹ Assumes emissions remain constant with time. Source: Appendix A | | | | |

The installation and maintenance of filters meeting the Minimum Efficiency Reporting Value (MERV) 13 standard would reduce impacts to residential sensitive receptors from prominent sources of TACs. Although MERV 13 filters are required in new residential development by Title 24 building code standards, MERV filters require regular maintenance and replacement to remain effective. Health risks at proposed residential sensitive receptors after considering the reductions from the installation and regular maintenance of MERV 13 filters would continue to exceed the BAAQMD-recommended thresholds at future residential on-site receptors. Therefore, a site-specific analysis performed by a qualified air quality specialist using dispersion modeling is recommended to more accurately estimate health risk impacts at the project site. As previously discussed, this analysis of existing sources of TACs was included for informational purposes.

Criterion 3: Project-Specific Operation Toxic Air Pollutants

The project applicant proposes to develop single-family residences and would not include on-site TAC sources during operation. As described in the TIA prepared for the proposed project, the project

is expected to generate approximately 839 daily vehicle trips. The proposed project would primarily generate trips for residents and visitors traveling to and from the project site. The daily travel trips to and from the project site would primarily be generated by passenger vehicles. Because nearly all passenger vehicles are gasoline-combusted, the proposed project would not generate significant amount of DPM emissions during operation. As described previously, substantial DPM emissions are generated from heavy construction equipment, such as bulldozers, and heavy duty trucks, which residents of the project would not operate on a daily basis at the project site during operation. Therefore, the proposed project would not result in significant health impacts to nearby sensitive receptors during operation.

Level of Significance Prior to Mitigation

Potentially significant impact.

Mitigation Measures

MM AIR-3 Prior to the issuance of any demolition, grading, or building permits (whichever occurs earliest), the project applicant and/or construction contractor shall prepare a construction operations plan that, during construction activities, requires all off-road equipment with engines greater than 50 horsepower to meet United States Environmental Protection Agency (EPA) particulate matter emissions standards for Tier 4 Interim engines. The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number.

The project applicant and/or construction contractor shall submit the construction operations plan and records of compliance to the Department of Community Development for the City of Brentwood.

Level of Significance Prior to Mitigation

Potentially significant impact.

5.2.4 - Objectionable Odors

Impact AIR-4: **The proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.**

Impact Analysis

Odor impacts on residential areas and other sensitive receptors, such as hospitals, daycare centers, schools, etc. warrant the closest scrutiny, but consideration should also be given to other land uses where people may congregate, such as recreational facilities, worksites, and commercial areas.

Two situations create a potential for odor impact. The first occurs when a new odor source is located near an existing sensitive receptor. The second occurs when a new sensitive receptor locates near an existing source of odor.

Odors can cause a variety of responses. The impact of an odor is dependent on interacting factors such as frequency (how often), intensity (strength), duration (in time), offensiveness (unpleasantness), location, and sensory perception. While offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress and often generating citizen complaints to local governments and regulatory agencies.

As stated in the BAAQMD 2017 Air Quality Guidelines, odors are generally regarded as an annoyance rather than a health hazard and the ability to detect odors varies considerably among the populations and overall is subjective. The BAAQMD does not have a recommended odor threshold for construction activities. However, the BAAQMD recommends operational screening criteria that are based on distance between types of sources known to generate odor and the receptor. For projects within the screening distances, the BAAQMD has the following threshold for project operations:

An odor source with five or more confirmed complaints per year averaged over 3 years is considered to have a significant impact on receptors within the screening distance shown in Table 3-3 [of the BAAQMD's guidance].

Two circumstances have the potential to cause odor impacts:

- 1) A source of odors is proposed to be located near existing or planned sensitive receptors, or
- 2) A sensitive receptor land use is proposed near an existing or planned source of odor.

Projects that would site an odor source or a receptor farther than the applicable screening distance, shown in Table 18 below, would not likely result in a significant odor impact.

Table 18: Odor Screening Distances

| Land Use/Type of Operation | Project Screening Distance |
|-------------------------------|----------------------------|
| Wastewater Treatment Plant | 2 miles |
| Wastewater Pumping Facilities | 1 mile |
| Sanitary Landfill | 2 miles |
| Transfer Station | 1 mile |
| Composting Facility | 1 mile |
| Petroleum Refinery | 2 miles |
| Asphalt Batch Plant | 2 miles |
| Chemical Manufacturing | 2 miles |
| Fiberglass Manufacturing | 1 mile |
| Painting/Coating Operations | 1 mile |

| Land Use/Type of Operation | Project Screening Distance |
|---|----------------------------|
| Rendering Plant | 2 miles |
| Coffee Roaster | 1 mile |
| Food Processing Facility | 1 mile |
| Confined Animal Facility/Feed Lot/Dairy | 1 mile |
| Green Waste and Recycling Operations | 1 mile |
| Source: Bay Area Air Quality Management District (BAAQMD). 2017. Final 2017 Clean Air Plan. April 19. Website: https://www.baaqmd.gov/~media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a_-proposed-final-cap-vol-1-pdf.pdf?la=en . Accessed April 11, 2021. | |

Project Construction

Diesel exhaust and ROG emissions would be emitted during construction of the proposed project, which are objectionable to some; however, emissions would disperse rapidly from the project site and therefore would not create objectionable odors affecting a substantial number of people. As such, construction odor impacts would be less than significant.

Project Operation

Project as an Odor Generator

Land uses typically considered associated with odors include wastewater treatment facilities, waste disposal facilities, or agricultural operations.

The proposed project is a residential development project and is not expected to produce any offensive odors that would result in odor complaints. During operation of the proposed project, odors would consist of laundry cleaning, vehicle exhaust, outdoor cooking, and waste disposal. However, such odors generated by project operation would be small in quantity and duration and would not pose an objectionable odor impact to future and existing receptors.

Project as a Receptor

As a residential project, the proposed project has the potential to place sensitive receptors near existing odor sources. The project site is located within the project screening distances for several potential sources of odor, as defined in Table 18. Specifically, the following land uses would be considered odor generators:

- City of Brentwood Waste Water Treatment located approximately 0.15 mile to the southwest of the project site.
- The Ready-Mix Concrete Manufacturing Operations located approximately 0.10 mile to the southwest of the project site.
- Smith Family Farm located approximately 0.45 mile to the east of the project site.
- RC Upick Cherries located approximately 0.50 mile to the east of the project site.
- Bermudez's Auto Services and Repair located approximately 0.18 mile southeast of the project site.

Public record requests were filed with the BAAQMD to obtain the most recent three-year odor compliant history for the potential odor generators within the vicinity of the project site. Based on the responses from the BAAQMD Public Records Section contained in Appendix A, there are no complaints for potential odor sources within 2 miles of the project site during the most recent 3-year period.

In summary, there were no complaints based on the odor complaints filed for facilities within the screening distances of the project site over the most recent 3-year period. This does not exceed the applicable threshold of five confirmed complaints averaged over a 3-year period. Considering no nearby potential sources of odor have any odor complaints on record during the most recent 3-year period, the uses in the project vicinity would not expose future receptors introduced by the proposed project to substantial odor impacts.

Level of Significance

Less than significant impact.

SECTION 6: GREENHOUSE GAS IMPACT ANALYSIS

6.1 - CEQA Guidelines

The CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine whether a project would have a significant impact on GHGs, the type, level, and impact of emissions generated by the proposed project must be evaluated.

The following GHG significance thresholds are contained in Appendix G of the CEQA Guidelines, which were amendments adopted into the Guidelines on March 18, 2010, pursuant to SB 97. A significant impact would occur if the proposed project would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

6.1.1 - Thresholds of Significance for the Proposed Project

Section 15064.4(b) of the CEQA Guidelines’ 2018 amendments for GHG emissions states that a lead agency may take into account the following three considerations in assessing the significance of impacts from GHG emissions.

- **Consideration No. 1:** The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting.
- **Consideration No. 2:** Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- **Consideration No. 3:** The extent to which the project complies with regulations or requirements adopted to implement a Statewide, regional, or local plan for the reduction or mitigation of GHG emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must include specific requirements that reduce or mitigate the project’s incremental contribution of greenhouse gas emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements, an Environmental Impact Report (EIR) must be prepared for the project. In determining the significance of impacts, the lead agency may consider a project’s consistency with the State’s long-term climate goals or strategies, provided that substantial evidence supports the agency’s analysis of how those goals or strategies address the project’s incremental contribution to climate change and its conclusion that the project’s incremental contribution is not cumulatively considerable.

BAAQMD GHG Thresholds

The BAAQMD developed a Threshold of Significance for GHG emissions to identify the emissions level for which a project would not be expected to substantially conflict with existing California legislation adopted to reduce Statewide GHG emissions needed to move us toward climate stabilization. If a project generates GHG emissions above the threshold level, it would be considered to contribute substantially to a cumulative impact and would be considered significant.

In jurisdictions where a qualified GHG Reduction Strategy has been reviewed under CEQA Guidelines and adopted by decision makers, compliance with the GHG Reduction Strategy would reduce a project's contribution to cumulative GHG emission impacts to a less than significant level.⁷⁰ The BAAQMD CEQA Guidelines also outline a methodology for estimating GHGs. The City of Brentwood does not have an adopted GHG Reduction Strategy and as a result, this analysis was completed consistent with the BAAQMD requirements.

The 2017 BAAQMD Thresholds contain the following threshold of significance for GHGs:

- For land use development projects (including residential, commercial, industrial, and public land uses and facilities), the threshold is compliance with a qualified GHG Reduction Strategy; or
- Annual emissions less than 1,100 MT CO₂e; or
- 4.6 MT CO₂e/service population/year (residents plus employees).

It should be noted that the BAAQMD's thresholds of significance were established based on meeting the 2020 GHG targets set forth in the AB 32 Scoping Plan, as described in more detail below.

The BAAQMD mass emissions threshold of 1,100 MT CO₂e per year was designed for the District to meet the AB 32 goal of reducing GHG emissions to 1990 levels by 2020 by accounting for the Bay Area's share of GHG emissions reduction beyond that achievable at the State level. It is based on the AB 32 GHG reduction goals and a "gap analysis" that attributes an appropriate share of GHG emissions reductions to new land use development projects in BAAQMD's jurisdiction. However, the District has not yet developed a corresponding mass emissions threshold that extends beyond 2020 to be aligned with the SB 32 target for 2030, and which represents the County's land uses and growth patterns. Accordingly, BAAQMD's existing mass emissions threshold is not appropriate for analyzing the GHG impacts of the proposed project without adjusting it to be consistent with SB 32.

SB 32 extended California's GHG reduction programs beyond 2020 and contains language to authorize the ARB to achieve a Statewide GHG emission reduction of at least 40 percent below 1990 levels by December 31, 2030. The ARB approved the 2017 California's Climate Change Scoping Plan update.⁷¹ The 2017 Scoping Plan Update outlines the proposed framework of action for achieving the 2030 GHG target of 40 percent reduction in GHG emissions relative to 1990 levels.

⁷⁰ The required components of a "qualified" Greenhouse Gas Reduction Strategy or Plan are described in both Section 15183.5 of the CEQA Guidelines and the BAAQMD CEQA Air Quality Guidelines (2017).

⁷¹ California Air Resources Board (ARB). 2017. California's 2017 Climate Change Scoping Plan. Website: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf. Accessed March 8, 2022.

Because the proposed project would be constructed after 2020, the BAAQMD quantitative thresholds of significance listed above were adjusted to become “substantial progress” thresholds that were calculated based on the SB 32 target of 40 percent below 1990 levels (i.e., 60 percent of 1990 levels). The mass emission threshold of significance applied in this analysis is 660 MT CO₂e per year (1,100 x 0.60 = 660). If operation of the proposed project would generate GHG emissions that exceed this bright-line threshold, the proposed project would then need to be analyzed against an appropriate efficiency threshold.

Similarly, the BAAQMD efficiency threshold (4.6 MT CO₂e) was derived by dividing the AB 32 GHG reduction target for land use development emissions in California by the estimated 2020 population and employment level. Similar to the mass emissions threshold, this efficiency threshold does not consider the Statewide emissions target mandated by SB 32 for 2030, and for projects built out after 2020 must be adjusted to be consistent with the SB 32 target.

Because the City of Brentwood has not published a qualified GHG Reduction Strategy or emissions inventory, this analysis utilizes the Contra Costa County Greenhouse Gas Emissions Inventory. According to the Contra Costa County Greenhouse Gas Emissions Inventory, countywide GHG emissions in its 2005 baseline year totaled approximately 12,335,904 MT CO₂e/year.⁷² Consistent with the Governor’s Office of Planning and Research (OPR) guidance on CAP development, the County should demonstrate a 15 percent reduction from its 2005 baseline by 2020 to be consistent with the reduction targets contained in AB 32. A 15 percent reduction would result in an emissions inventory target of approximately 10,485,519 MT CO₂e/year in 2020, which is representative of the County’s GHG emissions in 1990. As SB 32 requires a 40 percent reduction from 1990 levels by 2030, the County should therefore have a GHG emissions inventory target of approximately 6,291,311 MT CO₂e/year in 2030. According to the Association of Bay Area Governments’ (ABAG) Plan Bay Area 2040 projections, Contra Costa County would have an estimated 1,257,790 residents and 458,230 jobs in 2030, totaling a 2030 service population of 1,716,020 persons.⁷³ Plan Bay Area 2050 projections were not readily available at the time of this report and, as a result, FCS staff utilized the 2040 projections.

With a GHG emissions inventory target of approximately 6,291,311 MT CO₂e/year and service population of 1,716,020 persons in 2030, the efficiency metric for Contra Costa County in 2030 would be 3.7⁷⁴ MT CO₂e per service population per year. As such, an efficiency threshold of 3.7 MT CO₂e per service population per year is utilized during both the 2024 and 2030 operational years as a conservative threshold in this analysis. The proposed project would have a potentially significant impact if both the bright-line and efficiency thresholds are exceeded.

⁷² Contra Costa County. 2008. Contra Costa County GHG Emissions Inventory. Website: <https://www.contracosta.ca.gov/DocumentCenter/View/2253/GHGInventoryReport-June08?bidId=>. Accessed February 18, 2022.

⁷³ Association of Bay Area Governments (ABAG). 2018. Plan Bay Area Projections 2040. November. Website: https://mtc.ca.gov/sites/default/files/Projections_2040-ABAG-MTC-web.pdf. Accessed February 18, 2022.

⁷⁴ Calculation: 6,291,311 MT CO₂e/year ÷ 1,716,020 persons = 3.7 MT CO₂e per service population per year.

6.2 - Impact Analysis

6.2.1 - Greenhouse Gas Inventory

Impact GHG-1: The proposed project would generate direct and indirect greenhouse gas emissions; however, these emissions would not result in a significant impact on the environment.

Impact Analysis

GHG emissions associated with development of the proposed project would occur over the short term from construction activities, consisting primarily of emissions from equipment exhaust and worker and vendor trips. There would also be long-term operational emissions associated with vehicular traffic within the project vicinity, energy and water usage, and solid waste disposal. Emissions for the proposed project are discussed below and were analyzed using the methodology recommended in the BAAQMD CEQA Air Quality Guidelines. CalEEMod, Version 2020.4.0 was used to predict GHG emissions from operation of the site assuming full buildout of the proposed project.

Construction

The proposed project would generate GHG emissions during construction activities, resulting from emission sources such as construction equipment, haul trucks, and construction worker vehicles. Although these emissions would be temporary and short-term in nature, they could represent a substantial contribution of GHG emissions. Construction emissions were modeled using CalEEMod Version 2020.4.0. Table 19, below, shows the annual construction GHG emissions.

Table 19: Proposed Project Construction GHG Emissions

| Construction Activity | Total GHG Emissions (MT CO ₂ e per year) |
|---|--|
| Demolition | 111 |
| Site Preparation | 124 |
| Grading | 132 |
| Building Construction | 589 |
| Paving | 90 |
| Architectural Coating | 15 |
| Total Construction Emissions | 1,060 |
| Emissions Amortized Over 30 Years¹ | 35 |
| Notes: GHG = greenhouse gas MT CO ₂ e = metric tons carbon dioxide equivalent Totals may not appear to sum exactly due to rounding. ¹ Construction GHG emissions are amortized over the 30-year lifetime of the project. Source: Appendix A. | |

As shown above, the proposed project would generate approximately 1,060 MT CO₂e during construction.

Operation

Operational or long-term emissions occur over the life of the proposed project. Project operations were modeled for the 2024 operational year, immediately following the completion of construction. Sources for operational emissions are summarized below and are described in more detail in Section 4-Modeling Parameters and Assumptions. Sources for operational GHG emissions include:

- **Motor Vehicles:** These emissions refer to GHG emissions contained in the exhaust from the cars and trucks that would travel to and from the project site.
- **Natural Gas:** These emissions refer to the GHG emissions that occur when natural gas is burned on the project site. Natural gas uses could include heating water, space heating, dryers, stoves, or other uses.
- **Indirect Electricity:** These emissions refer to those generated by off-site power plants to supply electricity required for the proposed project.
- **Area Sources:** These emissions refer to those produced during activities such as landscape maintenance.
- **Water Transport:** These emissions refer to those generated by the electricity required to transport and treat the water to be used on the project site.
- **Waste:** These emissions refer to the GHG emissions produced by decomposing waste generated by the proposed project.

Table 20 presents the estimated annual GHG emissions from the project’s operational activities. As shown in Table 20, the project would generate approximately 968 MT CO₂e per year after the inclusion of 35 MT CO₂e per year from project construction.

Table 20: Operational Greenhouse Gas Emissions (Unmitigated)

| GHG Emissions Source | GHG Emissions (MT CO ₂ e per year) | |
|---|---|------------|
| | Year 2024 | Year 2030 |
| Area | <1 | <1 |
| Energy | 239 | 234 |
| Mobile—Passenger Vehicles | 626 | 527 |
| Waste | 54 | 54 |
| Water | 13 | 13 |
| Amortized Construction Emissions | 35 | 35 |
| Total Annual Project Emissions | 968 | 863 |
| BAAQMD Bright-line Threshold | 1,100 | 660 |
| Exceed BAAQMD Threshold? | No | Yes |
| Project MT CO₂e/service population/year | 3.5 | 3.5 |

| GHG Emissions Source | GHG Emissions (MT CO ₂ e per year) | |
|--|---|-----------|
| | Year 2024 | Year 2030 |
| Efficiency Threshold | 3.7 | 3.7 |
| Exceeds Efficiency Threshold? | No | No |
| Notes: BAAQMD = Bay Area Air Quality Management District GHG = greenhouse gas MT CO ₂ e = metric tons carbon dioxide equivalent Source: Appendix A. | | |

As shown in Table 20, the proposed project’s operational GHG emissions would exceed the BAAQMD bright-line threshold during and after the 2030 operational year. However, the proposed project would not exceed the 3.7 MT CO₂e/service population/year efficiency threshold. The proposed project’s service population would be the future residents, which is calculated by taking the Plan Bay Area 2040 City of Brentwood persons per household amount of 3.13⁷⁵ and multiplying by the proposed 89 single-family units to get 279 residents. Then take 968 MT CO₂e per year divided by the total project population of 279 residents, which equals 3.5 MT CO₂e per person per year. As a result, the proposed project would not generate GHG emissions that exceed the BAAQMD’s thresholds of significance established in order to meet the 2020 GHG targets set forth in the AB 32 Scoping Plan and SB 32. Therefore, the proposed project would not generate significant GHG emissions and impacts would be less than significant.

Level of Significance

Less than significant impact.

6.2.2 - Greenhouse Gas Reduction Plans

Impact GHG-2: The proposed project would not conflict with any applicable plan, policy or regulation of an agency adopted to reduce the emissions of greenhouse gases.

Impact Analysis

The following discusses project consistency with applicable plans adopted for the purpose of reducing GHG emissions, which includes the ARB’s Scoping Plan.

The City currently has not developed a CAP at the time of this writing. Since the City has not adopted specific plans, the analysis is based on consistency with the State Goals and General Plan Policies.

ARB Scoping Plan

The ARB Scoping Plan is the State’s strategy to achieve the GHG emissions reduction goals under AB 32 and SB 32, as well as a long-term strategy to achieve the State’s overall carbon neutrality goals for 2050 under Executive Order S-03-05. It is applicable to State agencies but is not directly applicable to cities/counties and individual projects (i.e., the Scoping Plan does not require the City to adopt

⁷⁵ Association of Bay Area Governments (ABAG). 2018. Plan Bay Area Projections 2040, page 67. November. Website: https://mtc.ca.gov/sites/default/files/Projections_2040-ABAG-MTC-web.pdf. Accessed February 22, 2022.

policies, programs, or regulations to reduce GHG emissions). However, new regulations adopted by the State agencies outlined in the Scoping Plan result in GHG emissions reductions at the local level. As a result, local jurisdictions benefit from reductions in transportation emissions rates, increases in water efficiency in the building and landscape codes, and other Statewide actions that affect a local jurisdiction's emissions inventory from the top down.

Transportation Sector

Passenger Vehicles

Statewide strategies to reduce GHG emissions from passenger vehicles and the transportation sector in general include the LCFS and changes in the corporate average fuel economy standards (e.g., Pavley I and Pavley California Advanced Clean Cars Program).⁷⁶

Energy/Commercial-Residential Sectors

Energy use generated by a project represents the second largest source of emissions after the transportation sector. New buildings under the proposed project would meet the current CALGreen and Building Energy Efficiency Standards. The proposed project would include rooftop photovoltaic electricity generation panel arrays.

Other Sources

Other sources of GHG emissions include solid waste disposal, which is associated with landfilling municipal solid waste. The amount of methane emitted to the atmosphere as a fraction of the total amount of methane generated from the decomposition of accumulated waste has gradually declined over time as more landfills install landfill gas collection and control systems and existing systems are operated more efficiently as a result of ARB's Landfill Methane Control Measure.⁷⁷ Furthermore, the City of Brentwood Solid Waste Division would provide residents with landfill, recycling, and yard waste bins that would contribute toward meeting the State's 75 percent goal of a reduction of organics waste disposal in landfills by 2025 and a 20 percent recovery of waste surplus food by 2025. Therefore, the proposed project would be consistent with the State's goals for the recycling and waste sector.

Metropolitan Transportation Commission Plan Bay Area

As part of the implementing framework for Plan Bay Area 2050, local governments have identified planned development areas to focus growth. The proposed project site is within the planning area of the Brentwood General Plan and consistent with applicable land use designations. Thus, the proposed project would be consistent with the overall goals of Plan Bay Area, which include concentrating new investment in areas that would encourage job growth. In addition, the proposed project would be developed in an area with existing infrastructure, such as roads, sanitary sewer and potable water connections. Therefore, the proposed project would not conflict with the land use concept plan in Plan Bay Area 2050.

⁷⁶ California Air Resources Board (ARB). 2015. Low Carbon Fuel Standard Regulation. Website: <http://www.arb.ca.gov/regact/2015/lcfs2015/lcfs2015.htm>. Accessed March 8, 2022.

⁷⁷ California Air Resources Board (ARB). 2020. Advanced Clean Trucks: Accelerating Zero-Emission Truck Markets. June 25. Website: https://ww2.arb.ca.gov/sites/default/files/2020-06/200625factsheet_ADA.pdf. Accessed March 8, 2022.

City of Brentwood General Plan

The City adopted its General Plan in 2014 and the City updated its Housing Element in 2015. As described in Section 2.4.3 of this report, the General Plan identifies seven policies and five actions to support its goal to reduce air pollution. As discussed in Impact AIR-1, AIR-2, and the consistency with the SB 32 2017 Scoping Plan below, the proposed project would be consistent with the energy conservation as well as GHG emission policies stated in the City’s General Plan. For example, the proposed project includes rooftop solar panels consistent with General Plan Policy COS 9-3. Therefore, the proposed project would not conflict with the City of Brentwood General Plan policies related to reduction of GHG emissions.

Senate Bill 32 2017 Scoping Plan Update

The 2017 Climate Change Scoping Plan Update addressing the SB 32 targets was adopted on December 14, 2017. Table 21 provides an analysis of the proposed project’s consistency with the 2017 Scoping Plan Update measures. As shown in Table 21, many of the measures are not applicable to the proposed project, and the proposed project is consistent with strategies that are applicable.

Table 21: Consistency with SB 32 2017 Scoping Plan Update

| 2017 Scoping Plan Update Reduction Measure | Project Consistency |
|---|---|
| SB 350 50 percent Renewable Mandate. Utilities subject to the legislation will be required to increase their renewable energy mix from 33 percent in 2020 to 50 percent in 2030. | Not applicable. This measure would apply to utilities and not to individual development projects. The proposed project would purchase electricity from a utility subject to the SB 350 Renewable Mandate. |
| SB 350 Double Building Energy Efficiency by 2030. This is equivalent to a 20 percent reduction from 2014 building energy usage compared to current projected 2030 levels. | Not applicable. This measure applies to existing buildings. The proposed project will not utilize existing buildings. New structures are required to comply with Title 24 Energy Efficiency Standards that are expected to increase in stringency over time. The proposed project would comply with the applicable Title 24 Energy Efficiency Standards in effect at the time building permits are received. |
| Low Carbon Fuel Standard. This measure requires fuel providers to meet an 18 percent reduction in carbon content by 2030. | Not applicable. This is a Statewide measure that cannot be implemented by a project applicant or lead agency. However, vehicles accessing the project site would benefit from the standards. |
| Mobile Source Strategy (Cleaner Technology and Fuels Scenario). Vehicle manufacturers will be required to meet existing regulations mandated by the LEV III and Heavy Duty Vehicle programs. The strategy includes a goal of having 4.2 million ZEVs on the road by 2030 and increasing numbers of ZEV trucks and buses. | Not applicable. The proposed project is residential in nature and would only support truck and freight operations during the construction period. |
| Sustainable Freight Action Plan The plan’s target is to improve freight system efficiency 25 percent by increasing the value of goods and services produced from the freight sector, relative to the amount of carbon that it produces by 2030. This would be | Not applicable. This measure applies to owners and operators of trucks and freight operations. The proposed project is residential in nature and would not support truck and freight operations. |

| 2017 Scoping Plan Update Reduction Measure | Project Consistency |
|---|---|
| achieved by deploying over 100,000 freight vehicles and equipment capable of zero-emission operation and maximize near zero-emission freight vehicles and equipment powered by renewable energy by 2030. | |
| Short-Lived Climate Pollutant (SLCP) Reduction Strategy. The strategy requires the reduction of SLCPs by 40 percent from 2013 levels by 2030 and the reduction of black carbon by 50 percent from 2013 levels by 2030. | Consistent. The proposed project would not include major sources of black carbon. This measure revolves around ARB’s SLCP Reduction Strategy that was released in April 2016 as a result of SB 650. SB 650 required the State to develop a strategy to reduce emissions of SLCPs. The proposed project would not generate black carbon because single-family homes are not sources for this type of SLCP. |
| SB 375 Sustainable Communities Strategies. Requires Regional Transportation Plans to include a Sustainable Communities Strategy for reduction of per capita vehicle miles traveled. | Not applicable. The proposed project does not include the development of a Regional Transportation Plan (RTP). |
| Post-2020 Cap-and-Trade Program. The Post 2020 Cap-and-Trade Program continues the existing program for another 10 years. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers. | Not applicable. The proposed project is not one targeted by the cap-and-trade system regulations, and, therefore, this measure does not apply to the proposed project. However, the post-2020 Cap-and-Trade Program indirectly affects people and entities who use the products and services produced by the regulated industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers. |
| Natural and Working Lands Action Plan. The ARB is working in coordination with several other agencies at the federal, State, and local levels, stakeholders, and with the public, to develop measures as outlined in the Scoping Plan Update and the governor’s Executive Order B-30-15 to reduce GHG emissions and to cultivate net carbon sequestration potential for California’s natural and working land. | Not Applicable. The project site is in a built-up urban area next to existing single-family homes, the Brentwood solid waste operations facility, and a man-made drainage (Marsh Creek) and would not be considered natural or working lands. |
| Source: California Air Resources Board (ARB). 2017. California’s 2017 Climate Change Scoping Plan. November. Website: https://ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf . Accessed December 3, 2021. | |

As discussed above, the proposed project is consistent with the City’s General Plan and would not conflict with the provisions of SB 32. Furthermore, the proposed project incorporates several design elements that would reduce GHG emissions, such as conformance to the 2019 Building Energy Efficiency Standards, CALGreen building regulations, and installation of a rooftop solar system, which would reduce additional GHG emissions from electricity demand. Therefore, the proposed project does not conflict with any plans to reduce GHG emissions and the impact would be less than significant.

Level of Significance

Less than significant impact.

SECTION 7: ENERGY IMPACT ANALYSIS

7.1 - CEQA Guidelines

CEQA Guidelines define a significant effect on the environment as “a substantial, or potentially substantial, adverse change in the environment.” To determine whether a project would have a significant impact on Energy, the type, level, and impact of emissions generated by the project must be evaluated.

The following GHG significance thresholds are contained in Appendix G of the CEQA Guidelines, which were amendments adopted into the Guidelines on March 18, 2010, pursuant to SB 97. A significant impact would occur if the proposed project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

7.2 - Impact Analysis

7.2.1 - Project Energy Consumption

Impact ENER-1: **The proposed project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during construction or operation.**

Impact Analysis

A discussion of the proposed project’s anticipated energy usage is presented below. Energy use consumed by the proposed project was estimated and includes natural gas, electricity, and fuel consumption for project construction and operation. Energy calculations are included as part of Appendix A.

Construction Impacts

The project construction schedule was assumed to begin in September 2022 and conclude in June 2024. If the construction schedule moves to later years, construction emissions would likely decrease because of improvements in technology and more stringent regulatory requirements as older, less efficient equipment is replaced by newer and cleaner equipment. The proposed project would require demolition, site preparation, grading, building construction, architectural coating, and paving. The construction phase would require energy for the manufacture and transportation of building materials, preparation of the site (e.g., demolition, site clearing, and grading), and the actual construction of the building. Petroleum-based fuels such as diesel fuel and gasoline would be the primary sources of energy for these tasks.

The types of on-site equipment used during construction of the proposed project could include gasoline- and diesel-powered construction and transportation equipment, including trucks, bulldozers, frontend loaders, forklifts, and cranes. Construction equipment is estimated to consume a total of 77,507 gallons of diesel fuel over the entire construction duration (Appendix A).

Fuel use associated with construction vehicle trips generated by the proposed project was also estimated; trips include construction worker trips, haul truck trips for material transport, and vendor trips for construction material deliveries. Fuel use from these vehicles traveling to the project site was based on (1) the projected number of trips the proposed project would generate during construction, (2) average trip distances by trip type, and (3) fuel efficiencies estimated in the ARB EMFAC mobile source emission model. The specific parameters used to estimate fuel usage are included in Appendix A. In total, the proposed project is estimated to generate 541,162 VMT and a combined 24,224 gallons of combined gasoline and diesel for vehicle travel during construction.

Other equipment could include construction lighting, field services (office trailers), and electrically driven equipment such as pumps and other tools. Chapter 9.32.050 of the Brentwood Municipal Code defines permissible hours of construction as between the hours of Monday through Friday from 7:00 a.m. until 3:30 p.m., or until 5:30 p.m. with the express written approval of the City Engineer or designee. No such work shall be performed on Saturday or Sunday or City holidays, except that such work may be performed on Saturday between 8:00 a.m. and 5:00 p.m. with the express written approval of the City Engineer or designee.⁷⁸ As on-site construction activities would be restricted to these hours, it is anticipated that the use of construction lighting would be minimal. Singlewide mobile office trailers, which are commonly used in construction staging areas, generally range in size from 160 square feet to 720 square feet. A typical 720-square-foot office trailer would consume approximately 22,456 kWh during the 22-month construction phase (Appendix A).

The overall construction schedule and process is already designed to be efficient in order to avoid excess monetary costs. For example, equipment and fuel are not typically used wastefully due to the added expense associated with renting the equipment, maintaining it, and fueling it. Therefore, the opportunities for future efficiency gains during construction are limited. Therefore, it is anticipated that the construction phase of the proposed project would not result in wasteful, inefficient, and unnecessary consumption of energy. Construction-related energy impacts would be less than significant.

Operational Impacts

Electricity and Natural Gas

The operational phase of the proposed project would consume energy as part of building operations and transportation activities. Building operations for the proposed project would involve energy consumption for multiple purposes including, but not limited to, building heating and cooling, refrigeration, lighting, and electronics. Based on the CalEEMod default energy use estimations, operations would consume approximately 583,302 kWh of electricity and an estimated 3.43 million

⁷⁸ City of Brentwood. 2022. Brentwood Municipal Code, chapter 9.3. Website: https://library.qcode.us/lib/brentwood_ca/pub/municipal_code/item/title_9-chapter_9_32-9_32_050. Accessed February 18, 2022.

kilo-British Thermal Unit (kBtu) of natural gas on an annual basis (CalEEMod defaults are described in more detail in Appendix A). The estimated electricity demand includes the amount of energy produced by the proposed project's rooftop solar. The proposed project would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the State's Title 24 energy efficiency standards. Title 24 standards include a broad set of energy conservation requirements that apply to the structural, mechanical, electrical, and plumbing systems in a building. For example, the Title 24 Lighting Power Density requirements define the maximum wattage of lighting that can be used in a building based on its square footage. Title 24 standards, widely regarded as the most advanced energy efficiency standards, would help reduce the amount of energy required for lighting, water heating, and heating and air conditioning in buildings and promote energy conservation.

Furthermore, the Brentwood General Plan includes energy conservation initiatives designed to reduce energy demand through home weatherization programs, green building guidelines, and alternative energy policies that would reduce energy use through supporting appropriate renewable energy projects and encouraging energy recovery projects. Compliance with these policies would ensure that building energy consumption would not result in the use of energy in a wasteful, inefficient, or unnecessary manner. In addition, the proposed project would include rooftop solar panels that would provide electricity for each single-family home and further reduce electricity consumption. Therefore, the operational impact related to building electricity and natural gas consumption would be less than significant.

Fuel

Operational energy would also be consumed during vehicle trips associated with the proposed project. Fuel consumption would be primarily related to vehicle use by residents, visitors, and employees associated with the proposed project. Based on CalEEMod default energy use estimations, project-related vehicle trips would result in approximately 1,938,384 VMT and consume an estimated 66,052 gallons of gasoline and diesel combined, annually (CalEEMod output files and energy-specific calculations are included in Appendix A).

The project site is located adjacent to Lone Tree Way and Hanson Boulevard, which provide access to State Highway 4. State Highway 4 is approximately 2.8 miles west of the project site and as a result the proposed project would be in proximity to a regional route of travel. The existing transportation facilities in the area would provide future residents, visitors, and employees associated with the proposed project with access to public transportation, thus further reducing fuel consumption demand. For these reasons, operational-related transportation fuel consumption would not result in a significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources. Therefore, the operational impact related to vehicle fuel consumption would be less than significant.

Level of Significance

Less than significant impact.

7.2.2 - Energy Plan Consistency

Impact ENER-2: The proposed project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Impact Analysis

A significant impact would occur if the proposed project would conflict with or obstruct a State or local plan for renewable energy or energy efficiency. The City has not developed a specific energy reduction or renewable energy plan at the time of this writing. Since the City has not adopted specific plans, the analysis is based on consistency with State goals and plans related to energy efficiency and renewable energy.

Construction

As discussed under Impact ENER-1, the proposed project would result in energy consumption through the combustion of fossil fuels in construction vehicles, worker commute vehicles, and construction equipment, and the use of electricity for temporary buildings, lighting, and other sources. California Code of Regulations Title 13, Sections 2449(d)(3) and 2485, limit idling from both on-road and off-road diesel-powered equipment and are enforced by the ARB. The proposed project would comply with these regulations. Thus, it is anticipated that construction of the proposed plan would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing energy use or increasing the use of renewable energy. Therefore, construction-related energy efficiency and renewable energy standards consistency impacts would be less than significant.

Operation

The proposed project would be served with electricity provided by Pacific Gas and Electric Company (PG&E).⁷⁹ In 2019, PG&E obtained 29 percent of its electricity from renewable energy sources.⁸⁰ PG&E also offers a Solar Choice 50 percent option that sources 64 percent of its power mix from eligible renewable energy sources, and a Solar Choice 100 percent option that sources 100 percent of its power mix from eligible renewable energy sources. The utility would be required to meet the future objective of 60 percent of electricity from renewable energy sources by 2030.

The proposed project would be designed in accordance with Title 24, California's Energy Efficiency Standards for Residential and Nonresidential Buildings. These standards include minimum energy efficiency requirements related to building envelope, mechanical systems (e.g., heating, ventilation, and air conditioning [HVAC] and water heating systems), and indoor and outdoor lighting. The proposed project would also comply with the most recent CBC requiring proposed residential buildings to be solar ready. The proposed single-family homes would include rooftop solar panels that would provide electricity for each residence and reduce energy demand. Further, the proposed project would be required to provide wiring that would allow installation of EV charging equipment in any private garages or carports. The incorporation of the Title 24 standards into the design of the

⁷⁹ Pacific Gas and Electric Company (PG&E). 2019. Exploring Clean Energy Solutions. Website: https://www.pge.com/en_US/about-pge/environment/what-we-are-doing/clean-energy-solutions/clean-energy-solutions.page. Accessed December 3, 2021.

⁸⁰ Pacific Gas and Electric Company (PG&E). 2019 Power Content Label. Website: https://www.pge.com/pge_global/common/pdfs/your-account/your-bill/understand-your-bill/bill-inserts/2020/1220-PowerContent-ADA.pdf. Accessed December 14, 2021.

proposed project would ensure that the proposed project would not result in the use of energy in a wasteful manner.

Compliance with these aforementioned mandatory measures would ensure that the proposed project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing energy use or increasing the use of renewable energy. Therefore, operational energy efficiency and renewable energy standards consistency impacts would be less than significant.

Level of Significance

Less than significant impact.

**Appendix A:
Air Quality, GHG Emissions, and Energy Supporting Information**

APPENDIX B

PLANNING SURVEY REPORT

Application Form and Planning Survey Report

To Comply With and Receive Permit Coverage Under The East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan

Please complete this application to apply for take authorization under the state and federal East Contra Costa County HCP/NCCP incidental take permits. The East Contra Costa County Habitat Conservancy ("Conservancy") or local jurisdiction (City of Brentwood, City of Clayton, City of Oakley, City of Pittsburg, and Contra Costa County) may request more information in order to deem the application complete.

I. PROJECT OVERVIEW

| PROJECT INFORMATION | |
|--|--|
| PROJECT NAME: Hanson Ranch | |
| PROJECT TYPE: <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Transportation <input type="checkbox"/> Utility <input type="checkbox"/> Other | |
| PROJECT DESCRIPTION (BRIEF): Construction of an 89-lot residential subdivision. A detailed project description is included in Attachment A. | |
| PROJECT ADDRESS/LOCATION: East ends of Lone Tree Way and Hanson Lane in the city of Brentwood, Contra Costa County, California. The site is just west of Marsh Creek. | |
| PARCEL/PROJECT SIZE (ACRES): 20.15+/- acres (19.76+/-acre parcel and 0.39-acre off-site improvements to Hanson Lane) | |
| PROJECT APN(S): 018-230-034 | |
| APPLICATION SUBMITTAL DATE: March 2022 | FINAL PSR DATE: (City/County/Conservancy use) |
| LEAD PLANNER: Eric Nolthenius | |
| JURISDICTION: <input checked="" type="checkbox"/> City of Brentwood <input type="checkbox"/> City of Clayton <input type="checkbox"/> City of Oakley <input type="checkbox"/> City of Pittsburg <input type="checkbox"/> Contra Costa County <input type="checkbox"/> Participating Special Entity* | |
| *Participating Special Entities are organizations not subject to the authority of a local jurisdiction. Such organizations may include school districts, irrigation districts, transportation agencies, local park districts, geological hazard abatement districts, or other utilities or special districts that own land or provide public services. | |
| DEVELOPMENT FEE ZONE: <input checked="" type="checkbox"/> Zone I <input type="checkbox"/> Zone II <input type="checkbox"/> Zone III <input type="checkbox"/> Zone IV | |
| See figure 9-1 of the HCP/NCCP at www.cocohcp.org for a generalized development fee zone map. Detailed development fee zone maps by jurisdiction are available from the jurisdiction. | |

| PROJECT APPLICANT INFORMATION | |
|---|--|
| APPLICANT'S NAME: MLC Holdings, Inc. | |
| AUTHORIZED AGENT'S NAME AND TITLE: Paul Manyisha, Forward Planning Manager | |
| PHONE NO.: (925) 324-6178 | APPLICANT'S E-MAIL: paul.manyisha@mlcholdings.net |
| MAILING ADDRESS: 2603 Camino Ramon, Suite 140, San Ramon, CA 94583 | |

| BIOLOGIST INFORMATION ¹ | |
|--|---|
| BIOLOGICAL/ENVIRONMENTAL FIRM: Moore Biological Consultants | |
| CONTACT NAME AND TITLE: Diane S. Moore, M.S. | |
| PHONE NO.: (209) 745-1159 | CONTACT'S E-MAIL: moorebio@softcom.net |
| MAILING ADDRESS: Moore Biological Consultants, 10330 Twin Cities Rd., Ste. 30, Galt, California 95632 | |

¹ A USFWS/CDFW-approved biologist (project-specific) is required to conduct the surveys. Please submit biologist(s) approval request to the Conservancy.

II. PROJECT DETAILS

Please complete and/or provide the following attachments:

1) Project Description

Attach as **Attachment A: Project Description**. Provide a detailed written description that concisely and completely describes the project and location. Include the following information:

- All activities proposed for the site or project, including roads utilized, construction staging areas, and the installation of underground facilities, to ensure the entire project is covered by the HCP/NCCP permit
- Proposed construction dates, including details on construction phases, if applicable
- Reference a City/County application number for the project, if applicable
- General Best Management Practices, if applicable
- If the project will have temporary impacts, please provide a restoration plan describing how the site will be restored to pre-project conditions, including revegetation seed mixes or plantings and timing

2) Project Vicinity Map

Provide a project vicinity map. Attach as **Figure 1 in Attachment B: Figures**.

3) Project Site Plans

Provide any project site plans for the project. Attach as **Figure 2 in Attachment B: Figures**.

4) CEQA Document

Indicate the status of CEQA documents prepared for the project. Provide additional comments below table if necessary.

| Type of Document | Status | Date Completed |
|--|-------------------|----------------|
| <input checked="" type="checkbox"/> Initial Study | Not yet initiated | |
| <input type="checkbox"/> Notice of Preparation | | |
| <input type="checkbox"/> Draft EIR | | |
| <input type="checkbox"/> Final EIR | | |
| <input type="checkbox"/> Notice of Categorical Exemption | | |
| <input type="checkbox"/> Notice of Statutory Exemption | | |
| <input type="checkbox"/> Other (describe) | | |

III. EXISTING CONDITIONS AND IMPACTS

Please complete and/or provide the following attachments:

1) Field-Verified Land Cover Map²

Attach a field-verified land cover map in **Attachment B: Figures** and label as **Figure 3**. The map should contain all land cover types present on-site overlaid on aerial/satellite imagery. Map colors for the land cover types should conform to the HCP/NCCP (see *Figure 3-3: Landcover in the Inventory Area* for land cover type legend).

2) Photographs of the Project Site

Attach representative photos of the project site in **Attachment B: Figures** and label as **Figure 4**. Please provide captions for each photo.

² For PSEs and city or county public works projects, please also identify permanent and temporary impact areas by overlaying crosshatching (permanent impacts) and hatching (temporary impacts) on the land cover map.

3) Land Cover Types and Impacts and Supplemental Tables

- For all terrestrial land cover types please provide calculations to the nearest **hundredth of an acre (0.01)**. For aquatic land cover types please provide calculations to the nearest **thousandth of an acre (0.001)**.
- **Permanent Impacts** are broadly defined in the ECCC HCP/NCCP to include all areas removed from an undeveloped or habitat-providing state and includes land in the same parcel or project that is not developed, graded, physically altered, or directly affected in any way but is isolated from natural areas by the covered activity. Unless such undeveloped land is dedicated to the Preserve System or is a deed-restricted creek setback, the development mitigation fee will apply (if proposed, would require Conservancy approval).
- **Temporary Impacts** are broadly defined in the ECCC HCP/NCCP as any impact on vegetation or habitat that does not result in permanent habitat removal (i.e. vegetation can eventually recover).
- If **wetland (riparian woodland/scrub, wetland, or aquatic)** land cover types are present on the parcel but will not be impacted please discuss in the following section 4) Jurisdictional Wetlands and Waters. Wetland impact fees will only be charged if wetland features are impacted. However, development fees will apply to the entire parcel.
- **Stream** land cover type is considered a linear feature where impacts are calculated based on length impacted. The acreage within a stream, below Top of Bank (TOB), must be assigned to the adjacent land cover type(s). Insert area of impact to stream below TOB in parentheses after the Land Cover acreage number (e.g., Riparian Woodland/Scrub: 10 (0.036) – where 10 is the total impacted acreage including 0.036 acre, which is the acreage within stream TOB). Complete following supplemental **Stream Feature Detail** table to provide information for linear feet.
- **Total Impacts** acreage should be the total parcel acreage (development project) or project footprint acreage (rural infrastructure or utility project).

Table 1: Land Cover Types and Impacts

*Proposed for HCP/NCCP
Dedication on the Parcel
(Requires Conservancy Approval)*

| Land Cover Type | Permanent Impacts | Temporary Impacts | Stream Setback | Preserve System Dedication |
|--|-------------------|-------------------|----------------|----------------------------|
| <i>Grassland</i> | | | | |
| Annual Grassland | | | | |
| Alkali Grassland | | | | |
| Ruderal | 12.71 | | | |
| <i>Shrubland</i> | | | | |
| Chaparral and Scrub | | | | |
| <i>Woodland</i> | | | | |
| Oak Savannah | | | | |
| Oak Woodland | | | | |
| <i>Riparian</i> | | | | |
| Riparian Woodland/Scrub | | | | |
| <i>Wetland</i> | | | | |
| Permanent Wetland | | | | |
| Seasonal Wetland | | | | |
| Alkali Wetland | | | | |
| <i>Aquatic</i> | | | | |
| Aquatic (Reservoir/Open Water) | | | | |
| Slough/Channel | | | | |
| Pond | | | | |
| Stream (in linear feet) | - | - | - | - |
| <i>Irrigated Agriculture</i> | | | | |
| Pasture | | | | |
| Cropland | | | | |
| Orchard | | | | |
| Vineyard | | | | |
| <i>Other</i> | | | | |
| Nonnative woodland | | | | |
| Wind turbines | | | | |
| <i>Developed (not counted toward Fees)</i> | | | | |
| Urban | 7.44 | | | |
| Aqueduct | | | | |
| Turf | | | | |
| Landfill | | | | |
| TOTAL IMPACTS | 20.15 | | | |

Identify any uncommon vegetation and uncommon landscape features³:

Supplemental to Table 1: Uncommon Vegetation and Landscape Features

| | Permanent Impacts | Temporary Impacts |
|---|-------------------|-------------------|
| <i>Uncommon Grassland Alliances</i> | | |
| Purple Needlegrass Grassland | | |
| Blue Wildrye Grassland | | |
| Creeping Ryegrass Grassland | | |
| Wildflower Fields | | |
| Squirreltail Grassland | | |
| One-sided Bluegrass Grassland | | |
| Serpentine Bunchgrass Grassland | | |
| Saltgrass Grassland | | |
| Alkali Sacaton Bunchgrass Grassland | | |
| <input type="checkbox"/> Other | | |
| <i>Uncommon Landscape Features</i> | | |
| Rock Outcrops | | |
| Caves | | |
| Springs and seeps | | |
| Scalds | | |
| Sand Deposits | | |
| <input type="checkbox"/> Mines ⁴ | | |
| <input type="checkbox"/> Buildings (bat roosts) ³ | | |
| <input checked="" type="checkbox"/> Potential nest sites (trees or cliffs) ³ | 21 trees | |

Please provide details of impacts to stream features:

Stream Name: None

Watershed:

Supplemental to Table 1: Stream Feature Detail⁵

| Stream Width | Stream Type ⁶ | Permanent Impacts (linear feet) ⁷ | Temporary Impacts (linear feet) ⁷ |
|--|--|--|--|
| <input type="checkbox"/> ≤ 25 feet wide <input type="checkbox"/> > 25 feet wide | <input type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral, 3rd or higher order <input type="checkbox"/> Ephemeral, 1st or 2nd order | | |
| <input type="checkbox"/> ≤ 25 feet wide <input type="checkbox"/> > 25 feet wide | <input type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral, 3rd or higher order <input type="checkbox"/> Ephemeral, 1st or 2nd order | | |
| <input type="checkbox"/> ≤ 25 feet wide <input type="checkbox"/> > 25 feet wide | <input type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral, 3rd or higher order <input type="checkbox"/> Ephemeral, 1st or 2nd order | | |

³ These acreages are for Conservancy tracking purposes. Impacts to these uncommon vegetation and landscape features should be accounted for within the land cover types in Table 1 (e.g., x acres of purple needlegrass in this supplemental table should be accounted for within annual grassland in Table 1).

⁴ Insert amount/number, not acreage. Provide additional information on these features in Attachment A: Project Description.

⁵ Use more than 1 row as necessary to describe impacts to streams on site.

⁶ See glossary (Appendix A) for definition of stream type and order.

⁷ Stream length is measured along stream centerline, based on length of impact to any part of the stream channel, TOB to TOB.

4) Summary of Land Cover Types

Please provide a written summary of descriptions for land cover types found on site including characteristic vegetation.

Ruderal Grassland: The project site consists of ruderal grassland (Figures 4a – 4d). Grasslands in the site have been highly disturbed by past agricultural use and other human activities. There is a leveled field in the central-east part of the site that has been fallow for the last couple of years, but appears to have historically supported annual crops. There is a soil stockpile in the northeast part of the site that is weedy. Some portions of the site are bare as the soils are extremely sandy, while other areas support weedy ruderal grassland vegetation. Dominant grasses in the site include oats (*Avena* sp.), ripgut brome (*Bromus diandrus*), foxtail barley (*Hordeum murinum*), and perennial ryegrass (*Lolium perenne*). Other grassland species such as Russian thistle (*Salsola iberica*), yellow star thistle (*Centaurea solstitialis*), Canadian horseweed (*Conyza canadensis*), common sow-thistle (*Sonchus oleraceus*), common mallow (*Malva neglecta*), puncture vine (*Tribulus terrestris*), morning glory (*Convolvulus arvensis*), and prickly lettuce (*Lactuca serriola*) are intermixed with the grasses.

Urban/Developed: The northwest and southwest parts of the site historically supported orchards and these areas are mapped as Urban/Developed in the ECCCHCP Fee Zone Maps. There is remnant concrete foundation in the southwest corner of the site as a home site was historically situated in this area.

There are 21 trees in the project site, most of which are located in the southwest part of the site. Representative species in the tree cluster include California pepper tree (*Schinus molle*), juniper (*Juniperus* sp.), olives (*Olea europaea*), and a few other ornamental species. There are also two black walnut (*Juglans californica*) trees in the northeast part of the site and two ornamental trees, a stone fruit tree, and a palm tree (*Washingtonia* sp.) along the west edge of the site. These smaller trees along the west edge of the site appear to be volunteers from the adjacent subdivision.

5) Jurisdictional Wetlands and Waters

If wetlands and waters are present on the project site, project proponents must conduct a delineation of jurisdictional wetlands and waters. Jurisdictional wetlands and waters are defined on pages 1-18 and 1-19 of the ECCCHCP/NCCP as the following land cover types: permanent wetland, seasonal wetland, alkali wetland, aquatic, pond, slough/channel, and stream. It should be noted that these features differ for federal and state jurisdictions. If you have identified any of these land cover types in Table 1, complete the section below.

- a) Attach the wetland delineation report as **Attachment E: Wetland Delineation**. If a wetland delineation has not been completed, please explain below in section 4c.
- b) **Please check the following permits the project may require. Please submit copies of these permits to the Conservancy prior to the start of construction:**
- | | |
|--|--|
| <input type="checkbox"/> CWA Section 404 Permit ⁸ | <input type="checkbox"/> CWA Section 401 Water Quality Certification |
| <input type="checkbox"/> Waste Discharge Requirements | <input type="checkbox"/> Lake and Streambed Alteration Agreement |
- c) **Provide any additional information on impacts to jurisdictional wetland and waters below, including status of the permit(s):**

An assessment of potentially jurisdictional Waters of the U.S. or wetlands in the site was undertaken on October 23, 2020 and January 25, 2022. There are no potentially jurisdictional Waters of the U.S. or wetlands of any type in the site. The site consists primarily of highly disturbed ruderal grassland vegetation and on-site soils are sandy and appear well draining.

⁸ The USACE Sacramento District issued a Regional General Permit 1 (RGP) related to ECCCHCP/NCCP covered activities. The RGP is designed to streamline wetland permitting in the entire ECCCHCP/NCCP Plan Area by coordinating the avoidance, minimization, and mitigation measures in the Plan with the Corps' wetland permitting requirement. Applicants seeking authorization under this RGP shall notify the Corps in accordance with RGP general condition number 18 (Notification).

6) Species-Specific Planning Survey Requirements

Based on the land cover types found on-site and identified in Table 1, check the applicable boxes in Table 2a.

Table 2a. Species –Specific Planning Survey Requirements

| Land Cover Type in Project Area | Required Survey Species | Habitat Element in Project Area | Planning Survey Requirement ⁹ | Info in HCP |
|---|---|---|---|------------------|
| <input checked="" type="checkbox"/> Grasslands, oak savannah, agriculture, or ruderal | <input type="checkbox"/> San Joaquin kit fox | Assumed if within modeled range of species | If within modeled range of species, identify and map potential breeding or denning habitat within the project site and a 250-ft radius around the project footprint. | pp. 6-37 to 6-38 |
| | <input checked="" type="checkbox"/> Western burrowing owl | Assumed | Identify and map potential breeding habitat within the project site and a 500-ft radius around the project footprint. Please note the HCP requires buffers for occupied burrows. Surveys may need to encompass an area larger than the project footprint. | pp. 6-39 to 6-41 |
| <input type="checkbox"/> Aquatic (ponds, wetlands, streams, sloughs, channels, and marshes) | <input type="checkbox"/> Giant garter snake | Aquatic habitat accessible from the San Joaquin River | Identify and map potential habitat. | pp. 6-43 to 6-45 |
| | <input type="checkbox"/> California tiger salamander | Ponds and wetlands Vernal pools Reservoirs Small lakes | Identify and map potential breeding habitat. Document habitat quality and features. Provide the Conservancy with photo-documentation and report. | pp. 6-45 |
| | <input type="checkbox"/> California red-legged frog | Slow-moving streams, ponds and wetlands | Identify and map potential breeding habitat. Document habitat quality and features. Provide the Conservancy with photo-documentation and report. | p. 6-46 |
| | <input type="checkbox"/> Covered shrimp | Seasonal wetlands Vernal pools Sandstone rock outcrops Sandstone depressions | Identify and map potential habitat. Please note the HCP requires a 50 foot non-disturbance buffer from seasonal wetlands that may be occupied by covered shrimp. Surveys may need to encompass an area larger than the project footprint. | pp. 6-46 to 6-48 |
| <input checked="" type="checkbox"/> Any | <input type="checkbox"/> Townsend's big-eared bat | Rock formations with caves Mines Abandoned buildings outside urban area | Map and document potential breeding or roosting habitat. | pp. 6-36 to 6-37 |
| | <input checked="" type="checkbox"/> Swainson's hawk | Potential nest sites within 1,000 feet of project | Inspect large trees for presence of nest sites. Document and map. | pp. 6-41 to 6-43 |
| | <input checked="" type="checkbox"/> Golden Eagle | Potential nest sites with ½ mile of project | Inspect large trees for presence of nest sites. Document and map. | pp. 6-38 to 6-39 |

Surveys for all covered species must be conducted by a qualified biologist (USFWS/CDFW project-specific approved). Please submit biologist approval request to the East Contra Costa County Habitat Conservancy.

Surveys for all covered species must be conducted according to the respective USFWS or CDFW survey protocols, as identified in Chapter 6.4.3 in the HCP/NCCP.

7) Planning Survey Species Habitat Maps

Provide Planning Survey Species Habitat Maps as required in Table 2a, attach as **Figure 5 in Attachment B: Figures**.

⁹ The planning survey requirements in this table are not comprehensive. Please refer to Chapter 6.4.3 in the ECCP HCP/NCCP for more detail.

8) Results of Species Specific Surveys

Provide a written summary describing the results of the planning surveys. Please discuss the location, quantity, and quality of suitable habitat for specified covered wildlife species on the project site.

General Setting: The 20.15+/- acre project site is in Brentwood, in Contra Costa County, California. The site is within Section 6, in Township 1 North, Range 3 East of the USGS 7.5-minute Brentwood topographic quadrangle (Figure 1). The central-east part of the site has been leveled and is at an elevation of approximately 50 feet above mean sea level. The north and southwest parts of the site are notably elevated and are at elevations ranging from 50 to 70 above mean sea level.

Surrounding land uses in this portion of Brentwood are residential, commercial, and agricultural, with subdivisions generally to the west of the site and commercial and agricultural lands to the east. Marsh Creek borders the entire east edge of the site and there is a residential subdivision to the west of the site. There are ranchette-style homes to the north of south of the site (Figure 3).

Western Burrowing Owl: The project site contains ruderal grassland and is within the range of western burrowing owl (*Athene cunicularia*). California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDDB, 2022) does not contain any records of western burrowing owl within 500 feet of the site, but does contain a few records of burrowing owl within 1,000 feet of the site (Figure 5b). The site was inspected for burrowing owls and ground squirrel burrows with evidence of burrowing owl occupancy (i.e., white wash, pellets, feathers). Comprehensive inspection of potential burrowing owl habitat was accomplished by walking meandering transects throughout the property. No western burrowing owls or burrows with evidence of burrowing owl occupancy were observed. Very few ground squirrel burrows were observed in the project site; the burrows were primarily located along the elevated soil stockpile in the northeast part of the site.

Swainson's Hawk: The site contains areas of ruderal grassland and is along the western edge of the range of Swainson's hawks (*Buteo swainsoni*). There are 21 trees in the site that are potentially suitable for nesting Swainson's hawks, as well as several potential nest trees near and visible from the site. Trees in the site and visible from the site were inspected for raptor stick nests. No raptor stick nests were observed in the on-site trees or in trees visible from the site. No Swainson's hawks were observed during the field surveys, which were conducted outside of the nesting season of this species. CDFW's CNDDDB contains no occurrences of Swainson's hawk within 1,000 feet of the site or within the larger geographical area depicted in Figure 5b.

Golden Eagle: The site contains ruderal grassland and is within the range of golden eagles (*Aquila chrysaetos*). CDFW's CNDDDB contains no occurrences of golden eagle within 0.5 miles of the site or within the larger geographical area depicted in Figure 5b. There are 21 trees in the site that are potentially suitable for nesting golden eagles and only a few potential nest trees near and visible from the site. Trees in the site and visible from the site were inspected for raptor stick nests. No raptor stick nests were observed in the on-site trees or in trees visible from the site. No golden eagles were observed and this species nests more often on cliffs in remote natural areas than in trees near urban areas.

9) Covered and No-Take Plants

Please check the applicable boxes in Table 2b based on the land cover types found in the project area. If suitable land cover types are present on site, surveys must be conducted using approved CDFW/USFWS methods during the appropriate season for identification of covered and no-take species (see page 6-9 of the ECCCP HCP/NCCP). Reference populations of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant species is visible and detectable at the time surveys are conducted. In order to complete all the necessary covered and no-take plant surveys, spring, summer, and fall surveys may be required.

Table 2b. Covered and No-Take Plant Species

| Plant Species | Covered (C) or No-Take (N) | Associated Land Cover Type | Typical Habitat or Physical Conditions, if Known | Typical Blooming Period | Suitable Land Cover Type Present |
|--|----------------------------|--|---|-------------------------|--|
| Adobe navarretia (<i>Navarretia nigelliformis</i> ssp. <i>radians</i>) ^a | C | Annual Grassland | Generally found on clay barrens in Annual Grassland ^b | Apr–Jun | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Alkali milkvetch (<i>Astragalus tener</i> ssp. <i>tener</i>) | N | Alkali grassland Alkali wetland Annual grassland Seasonal wetland | Generally found in vernal moist habitat in soils with a slight to strongly elevated pH | Mar–Jun | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Big tarplant (<i>Blepharizonia plumosa</i>) | C | Annual grassland | Elevation below 1500 feet ^d most often on Altamont Series or Complex soils | Jul–Oct | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Brewer’s dwarf flax (<i>Hesperolinon breweri</i>) | C | Annual grassland Chaparral and scrub Oak savanna Oak woodland | Generally, restricted to grassland areas within a 500+ buffer from oak woodland and/or chaparral/scrub ^d | May–Jul | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Brittlescale (<i>Atriplex depressa</i>) | C | Alkali grassland Alkali wetland | Restricted to soils of the Pescadero or Solano soil series; generally found in southeastern region of plan area ^d | May–Oct | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Caper-fruited tropidocarpum (<i>Tropidocarpum capparideum</i>) | N | Alkali grassland | | Mar–Apr | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Contra Costa goldfields (<i>Lasthenia conjugens</i>) | N | Alkali grassland Alkali wetland Annual grassland Seasonal wetland | Generally found in vernal pools | Mar–Jun | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Diablo Helianthella (<i>Helianthella castanea</i>) | C | Chaparral and scrub Oak savanna Oak woodland | Elevations generally above 650 feet ^d | Mar–Jun | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Diamond-petaled poppy (<i>Eschscholzia rhombipetala</i>) | N | Annual grassland | | Mar–Apr | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Large-flowered fiddleneck (<i>Amsinckia grandiflora</i>) | N | Annual grassland | Generally on clay soil | Apr–May | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Mount Diablo buckwheat (<i>Eriogonum truncatum</i>) | N | Annual grassland Chaparral and scrub | Ecotone of grassland and chaparral/scrub | Apr–Sep | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Mount Diablo fairy-lantern (<i>Calochortus pulchellus</i>) | C | Annual grassland Chaparral and scrub Oak savanna Oak woodland | Elevations generally between 650 and 2,600 ^d | Apr–Jun | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Mount Diablo Manzanita (<i>Arctostaphylos auriculata</i>) | C | Chaparral and scrub | Elevations generally between 700 and 1,860 feet; restricted to the eastern and northern flanks of Mt. Diablo ^d and the vicinity of Black Diamond Mines | Jan–Mar | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Recurved larkspur (<i>Delphinium recurvatum</i>) | C | Alkali grassland Alkali wetland | | Mar–Jun | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Round-leaved filaree (<i>California macrophylla</i>) ^c | C | Annual grassland | | Mar–May | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| San Joaquin spearscale (<i>Extriplex joaquiniana</i>) ^e | C | Alkali grassland Alkali wetland | | Apr–Oct | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Showy madia (<i>Madia radiata</i>) | C | Annual grassland Oak savanna Oak woodland | Primarily occupies open grassland or grassland on edge of oak woodland | Mar–May | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

^a The species *Navarretia nigelliformis* subsp. *nigelliformis* is no longer considered to occur within Contra Costa County based on specimen annotations at the UC and Jepson Herbaria at the University of California Berkeley as well as the opinions of experts in the genus. This taxon is now recognized as *Navarretia nigelliformis* subsp. *radians*. Any subspecies of *Navarretia nigelliformis* encountered as a part of botanical surveys in support of a PSR should be considered as covered under this HCP/NCCP.

^b Habitat for the *Navarretia nigelliformis* subspecies that occurs within the inventory are is inaccurately described in the HCP/NCCP as vernal pools. The entity within the Inventory generally occupies clay barrens within Annual Grassland habitat, which is an upland habitat type.

^c From California Native Plant Society. 2007. *Inventory of Rare and Endangered Plants* (online edition, v7-07d). Sacramento, CA. Species may be identifiable outside of the typical blooming period; a professional botanist shall determine if a covered or no take plant occurs on the project site. Reference population of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant is visible and detectable at the time surveys are conducted.

^d See Species Profiles in Appendix D of the Final HCP/NCCP. Reference populations of covered and no-take plants should be visited, where possible, prior to conducting surveys to confirm that the plant species is visible and detectable at the time surveys are conducted.

^e In the recent update to the Jepson eflora (JFP 2013) *Atriplex joaquiniana* has been circumscribed and segregated into a new genus called *Extriplex* based on the work of Elizabeth Zacharias and Bruce Baldwin (2010). The etymology of the genus *Extriplex* means, “beyond or outside *Atriplex*”.

10) Results of Covered and No-Take Plant Species

Provide a written summary describing the results of the planning surveys conducted as required in Table 2b. Describe the methods used to survey the site for all covered and no-take plants, including the dates and times of all surveys conducted (see Tables 3-8 and 6-5 of the ECCC HCP/NCCP for covered and no-take plants), including reference populations visited prior to conducting surveys.

If any covered or no-take plant species were found, include the following information in the results summary:

- Description and number of occurrences and their rough population size.
- Description of the “health” of each occurrence, as defined on pages 5-49 and 5-50 of the HCP/NCCP.
- A map of all the occurrences.
- Justification of surveying time window, if outside of the plant’s blooming period.
- The CNDDDB form(s) submitted to CDFW (if this is a new occurrence).
- A description of the anticipated impacts that the covered activity will have on the occurrence and how the project will avoid impacts to all covered and no-take plant species. If impacts to covered plant species cannot be avoided and plants will be removed by covered activity, the Conservancy must be notified and has the option to salvage the covered plants. All projects must demonstrate avoidance of all six no-take plants (see table 6-5 of the HCP/NCCP).

Survey Methods

Surveys to assess potentially suitable habitat for special-status plants was undertaken on October 23, 2020 and January 25, 2022. The site was systematically searched by walking throughout the site.

Survey Results and Discussion

The site is ruderal grassland that is periodically mowed and/or disked. Due to an absence of potentially suitable habitat for special-status plants, focused surveys during the blooming period of each species in Table 2b were not warranted.

IV. SPECIES-SPECIFIC AVOIDANCE AND MINIMIZATION REQUIREMENTS

Please complete and/or provide the following attachments:

1) Species-Specific Avoidance and Minimization for Selected Covered Wildlife

Complete the following table and check the applicable box for covered species determined by the planning surveys.

Table 3. Summary of Applicable Preconstruction Surveys, Avoidance and Minimization, and Construction Monitoring Requirements¹⁰

| Species | Preconstruction Survey Requirements | Avoidance and Minimization Requirements | Construction Monitoring Required | Info in HCP |
|---|---|---|--|------------------|
| <input type="checkbox"/> San Joaquin kit fox | <ul style="list-style-type: none"> • On project footprint and 250-ft radius, map all dens (>5 in. diameter) and determine status • Provide written survey results to USFWS within 5 working days after surveying | <ul style="list-style-type: none"> • Monitor dens • Destroy unoccupied dens • Discourage use of occupied (non-natal) dens | <ul style="list-style-type: none"> • Establish exclusion zones (>50 ft for potential dens, and >100 ft for known dens) • Notify USFWS of occupied natal dens | pp. 6-37 to 6-38 |
| <input checked="" type="checkbox"/> Western burrowing owl | <ul style="list-style-type: none"> • On project footprint and 500-ft radius, identify and map all owls and burrows, and determine status • Document use of habitat (e.g. breeding, foraging) | <ul style="list-style-type: none"> • Avoid occupied nests during breeding season (Feb-Sep) • Avoid occupied burrows during nonbreeding season (Sep – Feb) • Install one-way doors in occupied burrow (if avoidance not possible) • Monitor burrows with doors installed | <ul style="list-style-type: none"> • Establish buffer zones (250 ft around nests) • Establish buffer zones (160 ft around burrows) | pp. 6-39 to 6-41 |

¹⁰ The requirements in this table are not comprehensive; they are detailed in the next section on the following page.

| | | | | | |
|-------------------------------------|-----------------------------|--|---|--|------------------|
| <input type="checkbox"/> | Giant garter snake | <ul style="list-style-type: none"> • Delineate aquatic habitat up to 200 ft from water's edge on each side • Document any occurrences | <ul style="list-style-type: none"> • Limit construction to Oct-May • Dewater habitat April 15 – Sep 30 prior to construction • Minimize clearing for construction | <ul style="list-style-type: none"> • Delineate 200 ft buffer around potential habitat near construction • Provide field report on monitoring efforts • Stop construction activities if snake is encountered; allow snake to passively relocate • Remove temporary fill or debris from construction site • Mandatory training for construction personnel | pp. 6-43 to 6-45 |
| <input type="checkbox"/> | California tiger salamander | <ul style="list-style-type: none"> • Provide written notification to USFWS and CDFW regarding timing of construction and likelihood of occurrence on site | <ul style="list-style-type: none"> • Allow agency staff to translocate species, if requested | <ul style="list-style-type: none"> • None | p. 6-45 |
| <input type="checkbox"/> | California red-legged frog | <ul style="list-style-type: none"> • Provide written notification to USFWS and CDFW regarding timing of construction and likelihood of occurrence on site | <ul style="list-style-type: none"> • Allow agency staff to translocate species, if requested | <ul style="list-style-type: none"> • None | p. 6-46 |
| <input type="checkbox"/> | Covered shrimp | <ul style="list-style-type: none"> • Establish presence/absence • Document and evaluate use of all habitat features (e.g. vernal pools, rock outcrops) | <ul style="list-style-type: none"> • Establish buffer near construction activities • Prohibit incompatible activities | <ul style="list-style-type: none"> • Establish buffer around outer edge of all hydric vegetation associated with habitat (50 ft or immediate watershed, whichever is larger) • Mandatory training for construction personnel | pp. 6-46 to 6-48 |
| <input type="checkbox"/> | Townsend's big-eared bat | <ul style="list-style-type: none"> • Establish presence/absence • Determine if potential sites were recently occupied (guano) | <ul style="list-style-type: none"> • Seal hibernacula before Nov • Seal nursery sites before April • Delay construction near occupied sites until hibernation or nursery seasons are over | <ul style="list-style-type: none"> • None | pp. 6-36 to 6-37 |
| <input checked="" type="checkbox"/> | Swainson's hawk | <ul style="list-style-type: none"> • Determine whether potential nests are occupied | <ul style="list-style-type: none"> • No construction within 1,000 ft of occupied nests within breeding season (March 15 - Sep 15) • If necessary, remove active nest tree after nesting season to prevent occupancy in second year. | <ul style="list-style-type: none"> • Establish 1,000 ft buffer around active nest and monitor compliance (no activity within established buffer) | pp. 6-41 to 6-43 |
| <input checked="" type="checkbox"/> | Golden Eagle | <ul style="list-style-type: none"> • Establish presence/absence of nesting eagles | <ul style="list-style-type: none"> • No construction within ½ mile near active nests (most activity late Jan – Aug) | <ul style="list-style-type: none"> • Establish ½ mile buffer around active nest and monitor compliance with buffer | pp. 6-38 to 6-39 |

2) Required Preconstruction Surveys, Avoidance and Minimization, and Construction Monitoring

All preconstruction surveys shall be conducted in accordance with the requirements set forth in Section 6.4.3, Species-Level Measures, and Table 6-1 of the ECCC HCP/NCCP. Detailed descriptions of preconstruction surveys, avoidance and minimization, and construction monitoring applicable to each of the wildlife species in Table 3 are located below. Please remove the species-specific measures that do not apply to your project (highlight entire section and delete).

WESTERN BURROWING OWL

Preconstruction Surveys

Prior to any ground disturbance related to covered activities, a USFWS/CDFW- approved biologist will conduct a preconstruction survey in areas identified in the planning surveys as having potential burrowing owl habitat. The surveys will establish the presence or absence of western burrowing owl and/or habitat features and evaluate use by owls in accordance with CDFW survey guidelines (California Department of Fish and Game 1995).

On the parcel where the activity is proposed, the biologist will survey the proposed disturbance footprint and a 500-foot radius from the perimeter of the proposed footprint to identify burrows and owls. Adjacent parcels under different land ownership will not be surveyed. Surveys should take place near sunrise or sunset in accordance with CDFW guidelines. All burrows or burrowing owls will be identified and mapped. Surveys will take place no more than 30 days prior to construction. During the breeding season (February 1– August 31), surveys will document whether burrowing owls are nesting in or directly adjacent to disturbance areas. During the nonbreeding season (September 1–January 31), surveys will document whether burrowing owls are using habitat in or directly adjacent to any

disturbance area. Survey results will be valid only for the season (breeding or nonbreeding) during which the survey is conducted.

Avoidance and Minimization and Construction Monitoring

This measure incorporates avoidance and minimization guidelines from CDFW's *Staff Report on Burrowing Owl Mitigation* (California Department of Fish and Game 1995).

If burrowing owls are found during the breeding season (February 1 – August 31), the project proponent will avoid all nest sites that could be disturbed by project construction during the remainder of the breeding season or while the nest is occupied by adults or young. Avoidance will include establishment of a non-disturbance buffer zone (described below). Construction may occur during the breeding season if a qualified biologist monitors the nest and determines that the birds have not begun egg-laying and incubation or that the juveniles from the occupied burrows have fledged. During the nonbreeding season (September 1 – January 31), the project proponent should avoid the owls and the burrows they are using, if possible. Avoidance will include the establishment of a buffer zone (described below).

During the breeding season, buffer zones of at least 250 feet in which no construction activities can occur will be established around each occupied burrow (nest site). Buffer zones of 160 feet will be established around each burrow being used during the nonbreeding season. The buffers will be delineated by highly visible, temporary construction fencing.

If occupied burrows for burrowing owls are not avoided, passive relocation will be implemented. Owls should be excluded from burrows in the immediate impact zone and within a 160-foot buffer zone by installing one-way doors in burrow entrances. These doors should be in place for 48 hours prior to excavation. The project area should be monitored daily for 1 week to confirm that the owl has abandoned the burrow. Whenever possible, burrows should be excavated using hand tools and refilled to prevent reoccupation (California Department of Fish and Game 1995). Plastic tubing or a similar structure should be inserted in the tunnels during excavation to maintain an escape route for any owls inside the burrow.

SWAINSON'S HAWK

Preconstruction Survey

Prior to any ground disturbance related to covered activities that occurs during the nesting season (March 15–September 15), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether Swainson's hawk nests within 1,000 feet of the project site are occupied. If potentially occupied nests within 1,000 feet are off the project site, then their occupancy will be determined by observation from public roads or by observations of Swainson's hawk activity (e.g., foraging) near the project site. If nests are occupied, minimization measures and construction monitoring are required (see below).

Avoidance and Minimization and Construction Monitoring

During the nesting season (March 15–September 15), covered activities within 1,000 feet of occupied nests or nests under construction will be prohibited to prevent nest abandonment. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense vegetation, limited activities) indicate that a smaller buffer could be used, the Implementing Entity will coordinate with CDFW/USFWS to determine the appropriate buffer size.

If young fledge prior to September 15, covered activities can proceed normally. If the active nest site is shielded from view and noise from the project site by other development, topography, or other features, the project applicant can apply to the Implementing Entity for a waiver of this avoidance measure. Any waiver must also be approved by USFWS and CDFW. While the nest is occupied, activities outside the buffer can take place.

All active nest trees will be preserved on site, if feasible. Nest trees, including non-native trees, lost to covered activities will be mitigated by the project proponent according to the requirements below.

Mitigation for Loss of Nest Trees

The loss of non-riparian Swainson's hawk nest trees will be mitigated by the project proponent by:

- If feasible on-site, planting 15 saplings for every tree lost with the objective of having at least 5 mature trees established for every tree lost according to the requirements listed below.

AND either

- 1) Pay the Implementing Entity an additional fee to purchase, plant, maintain, and monitor 15 saplings on the HCP/NCCP Preserve System for every tree lost according to the requirements listed below, OR
- 2) The project proponent will plant, maintain, and monitor 15 saplings for every tree lost at a site to be approved by the Implementing Entity (e.g., within an HCP/NCCP Preserve or existing open space linked to HCP/NCCP preserves), according to the requirements listed below.

The following requirements will be met for all planting options:

- Tree survival shall be monitored at least annually for 5 years, then every other year until year 12. All trees lost during the first 5 years will be replaced. Success will be reached at the end of 12 years if at least 5 trees per tree lost survive without supplemental irrigation or protection from herbivory. Trees must also survive for at least three years without irrigation.
- Irrigation and fencing to protect from deer and other herbivores may be needed for the first several years to ensure maximum tree survival.
- Native trees suitable for this site should be planted. When site conditions permit, a variety of native trees will be planted for each tree lost to provide trees with different growth rates, maturation, and life span, and to provide a variety of tree canopy structures for Swainson's hawk. This variety will help to ensure that nest trees will be available in the short term (5-10 years for cottonwoods and willows) and in the long term (e.g., Valley oak, sycamore). This will also minimize the temporal loss of nest trees.
- Riparian woodland restoration conducted as a result of covered activities (i.e., loss of riparian woodland) can be used to offset the nest tree planting requirement above, if the nest trees are riparian species.
- Whenever feasible and when site conditions permit, trees should be planted in clumps together or with existing trees to provide larger areas of suitable nesting habitat and to create a natural buffer between nest trees and adjacent development (if plantings occur on the development site).
- Whenever feasible, plantings on the site should occur closest to suitable foraging habitat outside the UDA.
- Trees planted in the HCP/NCCP preserves or other approved offsite location will occur within the known range of Swainson's hawk in the inventory area and as close as possible to high-quality foraging habitat.

GOLDEN EAGLE

Preconstruction Survey

Prior to implementation of covered activities, a qualified biologist will conduct a preconstruction survey to establish whether nests of golden eagles are occupied (see Section 6.3.1, *Planning Surveys*). If nests are occupied, minimization requirements and construction monitoring will be required.

Avoidance and Minimization

Covered activities will be prohibited within 0.5 mile of active nests. Nests can be built and active at almost any time of the year, although mating and egg incubation occurs late January through August, with peak activity in March through July. If site-specific conditions or the nature of the covered activity (e.g., steep topography, dense vegetation, limited activities) indicate that a smaller buffer could be appropriate or that a larger buffer should be implemented, the Implementing Entity will coordinate with CDFW/USFWS to determine the appropriate buffer size.

Construction Monitoring

Construction monitoring will focus on ensuring that no covered activities occur within the buffer zone established around an active nest. Although no known golden eagle nest sites occur within or near the ULL, covered activities inside and outside of the Preserve System have the potential to disturb golden eagle nest sites. Construction monitoring will ensure that direct effects to golden eagles are minimized.

3) Construction Monitoring Plan

Before implementing a covered activity, the applicant will develop and submit a construction monitoring plan to the planning department of the local land use jurisdiction and the East Contra Costa County Habitat Conservancy for review and approval. Elements of a brief construction monitoring plan will include the following:

- Results of planning and preconstruction surveys.¹¹
- Description of avoidance and minimization measures to be implemented, including a description of project-specific refinements to the measures or additional measures not included in the HCP/NCCP.
- Description of monitoring activities, including monitoring frequency and duration, and specific activities to be monitored.
- Description of the onsite authority of the construction monitor to modify implementation of the activity.

Check box to acknowledge this requirement.

V. SPECIFIC CONDITIONS ON COVERED ACTIVITIES

1) Check off the HCP conservation measures that apply to the project.

APPLIES TO ALL PROJECTS

Conservation Measure 1.11. Avoid Direct Impacts on Extremely Rare Plants, Fully Protected Wildlife Species, or Migratory Birds. This conservation measure applies to all projects. All projects will avoid all impacts on extremely rare plants and fully protected species listed in Table 6-5 of the ECCC HCP/NCCP. See HCP pp. 6-23 to 6-25, and Table 6-5.

APPLIES TO PROJECTS THAT IMPACT COVERED PLANT SPECIES

Conservation Measure 3.10. Plant Salvage when Impacts are Unavoidable. This condition applies to projects that cannot avoid impacts on covered plants and help protect covered plants by prescribing salvage whenever avoidance of impacts is not feasible. Project proponents wishing to remove populations of covered plants must notify the Conservancy of their construction schedule to allow the Conservancy the option of salvaging the populations. See HCP pp. 6-48 to 6-50.

APPLIES TO PROJECTS THAT INCLUDE ARE ADJACENT TO STREAMS, PONDS, OR WETLANDS

Conservation Measure 2.12. Wetland, Pond, and Stream Avoidance and Minimization. All projects will implement measures described in the HCP to avoid and minimize impacts on wetlands, ponds, streams, and riparian woodland/scrub. See HCP pp. 6-33 to 6-35.

APPLIES TO NEW DEVELOPMENT PROJECTS

Conservation Measure 1.10. Maintain Hydrologic Conditions and Minimize Erosion. All new development must avoid or minimize direct and indirect impacts on local hydrological conditions and erosion by incorporating the applicable Provision C.3 Amendments of the Contra Costa County Clean Water Program's (CCCCWP's) amended NPDES Permit (order no. R2-2003-0022; permit no. CAS002912). The overall goal of this measure is to ensure that new development covered under the HCP has no or minimal adverse effects on downstream fisheries to avoid take of fish listed under ESA or CESA. See HCP pp. 6-21 to 6-22.

APPLIES TO NEW DEVELOPMENT PROJECTS THAT INCLUDE OR ARE ADJACENT TO STREAMS, PONDS, OR WETLANDS

Conservation Measure 1.7. Establish Stream Setbacks. A stream setback will be applied to all development projects covered by the HCP according to the stream types listed in Table 6-2 of the HCP. See HCP pp. 6-15 to 6-18 and Table 6-2.

APPLIES TO NEW DEVELOPMENT PROJECTS ADJACENT TO EXISTING PUBLIC OPEN SPACE, HCP PRESERVES, OR LIKELY HCP ACQUISITION SITES

Conservation Measure 1.6. Minimize Development Footprint Adjacent to Open Space. Project applicants are encouraged to minimize their development footprint and set aside portions of their land to contribute to the HCP Preserve System. Land set aside that contributes to the HCP biological goals and objectives may be credited against development fees. See HCP pages 6-14 to 6-15.

Conservation Measure 1.8. Establish Fuel Management Buffer to Protect Preserves and Property. Buffer zones will provide a buffer between development and wildlands that allows adequate fuel management to minimize the risk of wildlife damage to property or to the preserve. The minimum buffer zone for new development is 100 feet. See HCP pages 6-18 to 6-19.

¹¹ If the preconstruction surveys do not trigger construction monitoring, results of preconstruction surveys should still be submitted to the local jurisdiction and the East Contra Costa County Habitat Conservancy.

Conservation Measure 1.9. Incorporate Urban-Wildlife Interface Design Elements. These projects will incorporate design elements at the urban-wildlife interface to minimize the indirect impacts of development on the adjacent preserve. See HCP pp. 6-20 to 6-21.

APPLIES TO ROAD MAINTENANCE PROJECTS OUTSIDE THE UDA

Conservation Measure 1.12. Implement Best Management Practices for Rural Road Maintenance. Road maintenance activities have the potential to affect covered species by introducing sediment and other pollutants into downstream waterways, spreading invasive weeds, and disturbing breeding wildlife. In order to avoid and minimize these impacts, BMPs described in the HCP will be used where appropriate and feasible. See HCP pp. 6-25 to 6-26.

APPLIES TO NEW ROADS OR ROAD IMPROVEMENTS OUTSIDE THE UDA

Conservation Measure 1.14. Design Requirements for Covered Roads Outside the Urban Development Area (UDA). New roads or road improvements outside the UDA have impacts on many covered species far beyond the direct impacts of their project footprints. To minimize the impacts of new, expanded, and improved roads in agricultural and natural areas of the inventory area, road and bridge construction projects will adopt siting, design, and construction requirements described in the HCP and listed in Table 6-6. See HCP pp. 6-27 to 6-33 and Table 6-6.

APPLIES TO FLOOD CONTROL MAINTENANCE ACTIVITIES

Conservation Measure 1.13. Implement Best Management Practices for Flood Control Facility Maintenance. Flood control maintenance activities have the potential to affect covered species by introducing sediment and other pollutants into downstream waterways and disturbing breeding wildlife. In order to avoid and minimize these impacts, BMPs described in the HCP will be used where appropriate and feasible. See HCP pp. 6-26 to 6-27.

2) **For all checked conservation measures, describe how the project will comply with each measure. Attach as Attachment C: Project Compliance to HCP Conditions.**

VI. MITIGATION MEASURES

1) **Mitigation Fee Calculator(s)**

Complete and attach the fee calculator (use permanent and/or temporary impact fee calculator as appropriate), and attach as **Attachment D: Fee Calculator(s)**.

2) **Briefly describe the amount of fees to be paid and when applicant plans to submit payment.**

The 20.15+/- acre site contains 12.71 acres of ruderal grassland and 7.44 acres of urban land.

The site is within Fee Zone 1 and construction is expected to commence in Spring 2023.

Using the current fee schedule, fees would be paid on 12.71 acres within Fee Zone 1, at a cost of \$17,602.20 per acre (\$223,723.96). Fees will be paid pursuant to the fee schedule that is in place at the time construction commences.

ATTACHMENT A: PROJECT DESCRIPTION

Hanson Ranch

Project Description

March 2022

The 20.15+/- acre project site is at the east ends of Hanson Lane and Lone Tree Way in Brentwood, Contra Costa County, California (Figure 1). The site is within Section 6, in Township 1 North, Range 3 East of the USGS 7.5-minute Brentwood topographic quadrangle. The project site includes a parcel encompassing 19.76+/- acres and an off-site 0.39-acre sliver along Hanson Lane.

MLC Holdings, Inc. plans to develop the parcel in to an 89-lot residential subdivision with single family medium-sized homes (Figure 2a). Access in to the north part of the site will be from Lone Tree Way; access in to the south part of the site Hanson Lane. Bonita Way will also be extended east in to the central part of the site. A network of roads and cul-de-sacs will provide access to all of lots in the subdivision. There will be a park in the southwest part of the site and a series of water quality treatment (i.e., bioretention) areas along the east edge of the site, between developed areas and the Marsh Creek corridor.

The project will require minor improvements to the east end of Hanson Lane, with construction of a sidewalk on the north side of the road. These off-site improvements will occur in a 0.39-acre area along Hanson Lane.

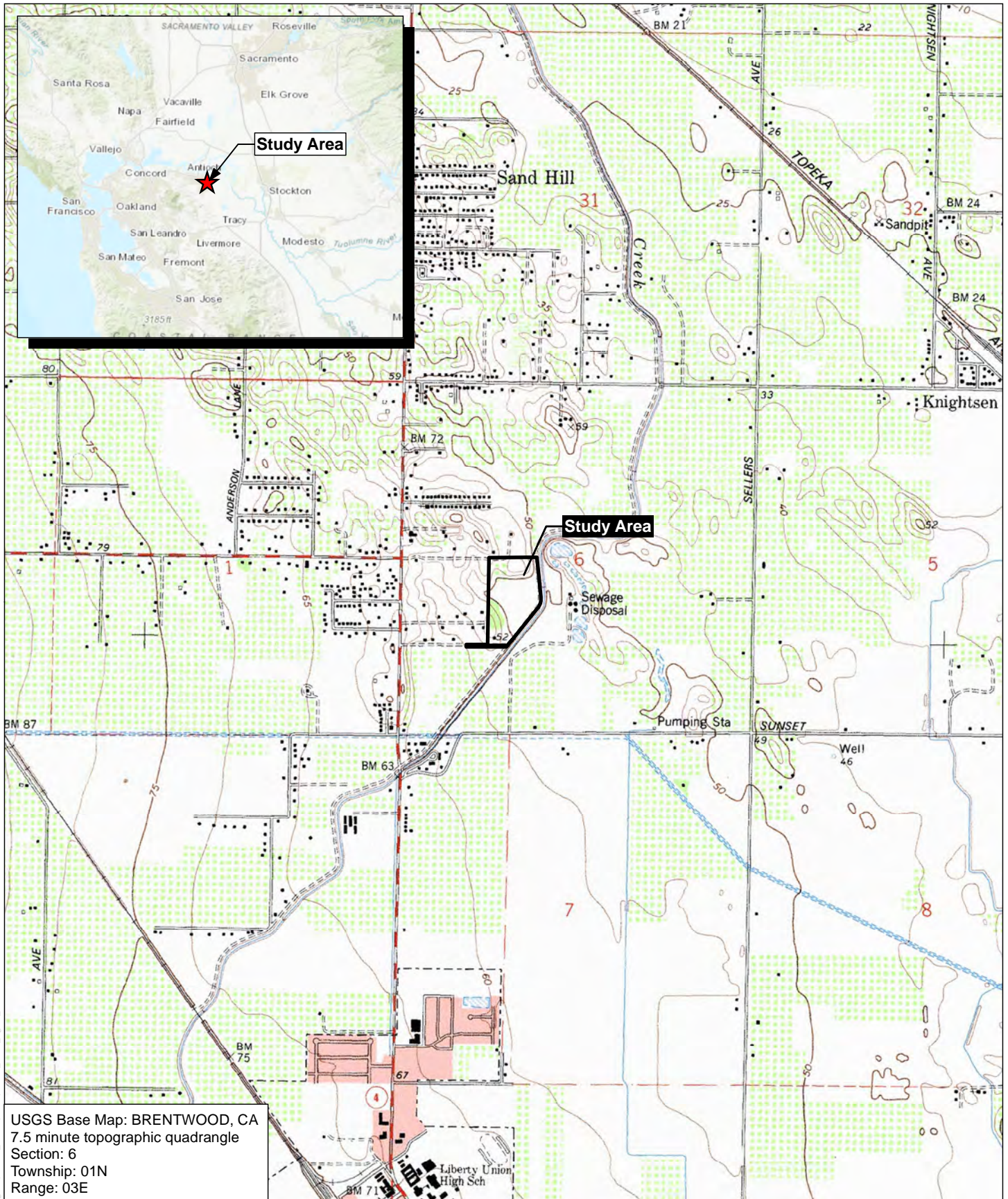
The proposed project will connect to existing City infrastructure to provide sewer and water to the site; a sewer line will be constructed under the Marsh Creek channel using bore & jack technology to tie in to sewer on the east side of the creek (Figure 2b).

Stormwater will be detained in the bioretention area before being discharged into Marsh Creek via an existing storm drain outfall (Figure 2c).

Standard construction best management practices (BMPs) will be employed during construction to minimize the potential for erosion and off-site transport of fines. BMPs will include use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.

Construction is expected to begin in Spring 2023 and is expected to continue through 2024.

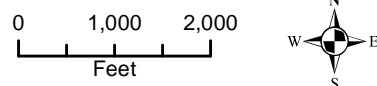
ATTACHMENT B: FIGURES



USGS Base Map: BRENTWOOD, CA
 7.5 minute topographic quadrangle
 Section: 6
 Township: 01N
 Range: 03E

Figure 1

**Moore Biological
 Consultants**

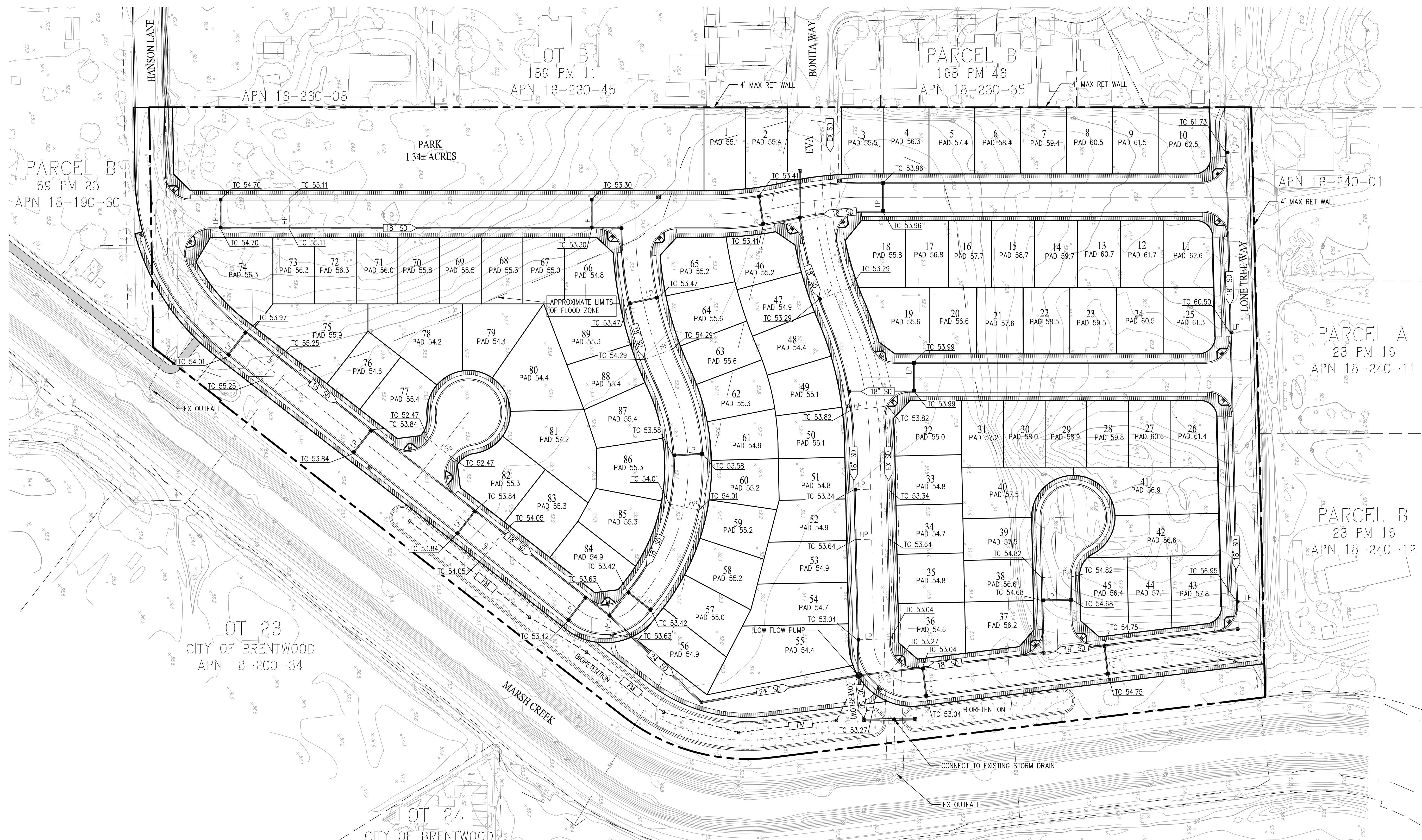


Map Date: 03/07/2022

Site Map/USGS

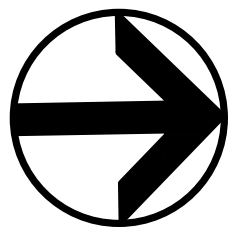
Hanson Ranch

Brentwood, Contra Costa County, CA




VESTING TENTATIVE MAP PRELIMINARY GRADING PLAN HANSON LANE

CITY OF BRENTWOOD CONTRA COSTA COUNTY CALIFORNIA
SCALE: 1" = 60' DATE: NOVEMBER 2021







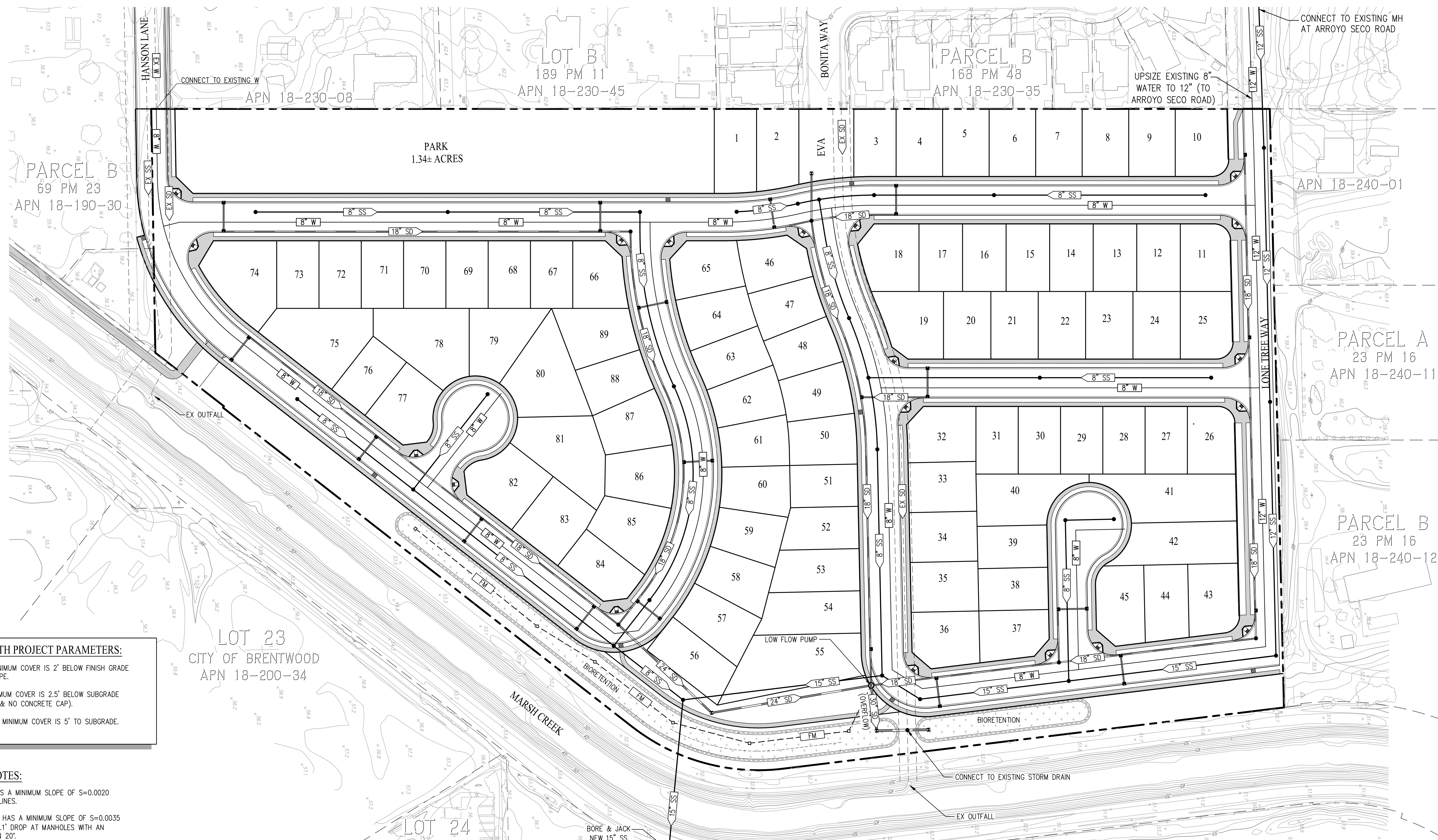
SAN RAMON • (925) 866-0322
ROSEVILLE • (916) 788-4456
WWW.CBANDG.COM

CIVIL ENGINEERS • SURVEYORS • PLANNERS

SHEET NO.
C3.0
OF 27 SHEETS

FIGURE 2A. PRELIMINARY GRADING PLAN

G:\2462-030\ACAD\TMTM03.DWG

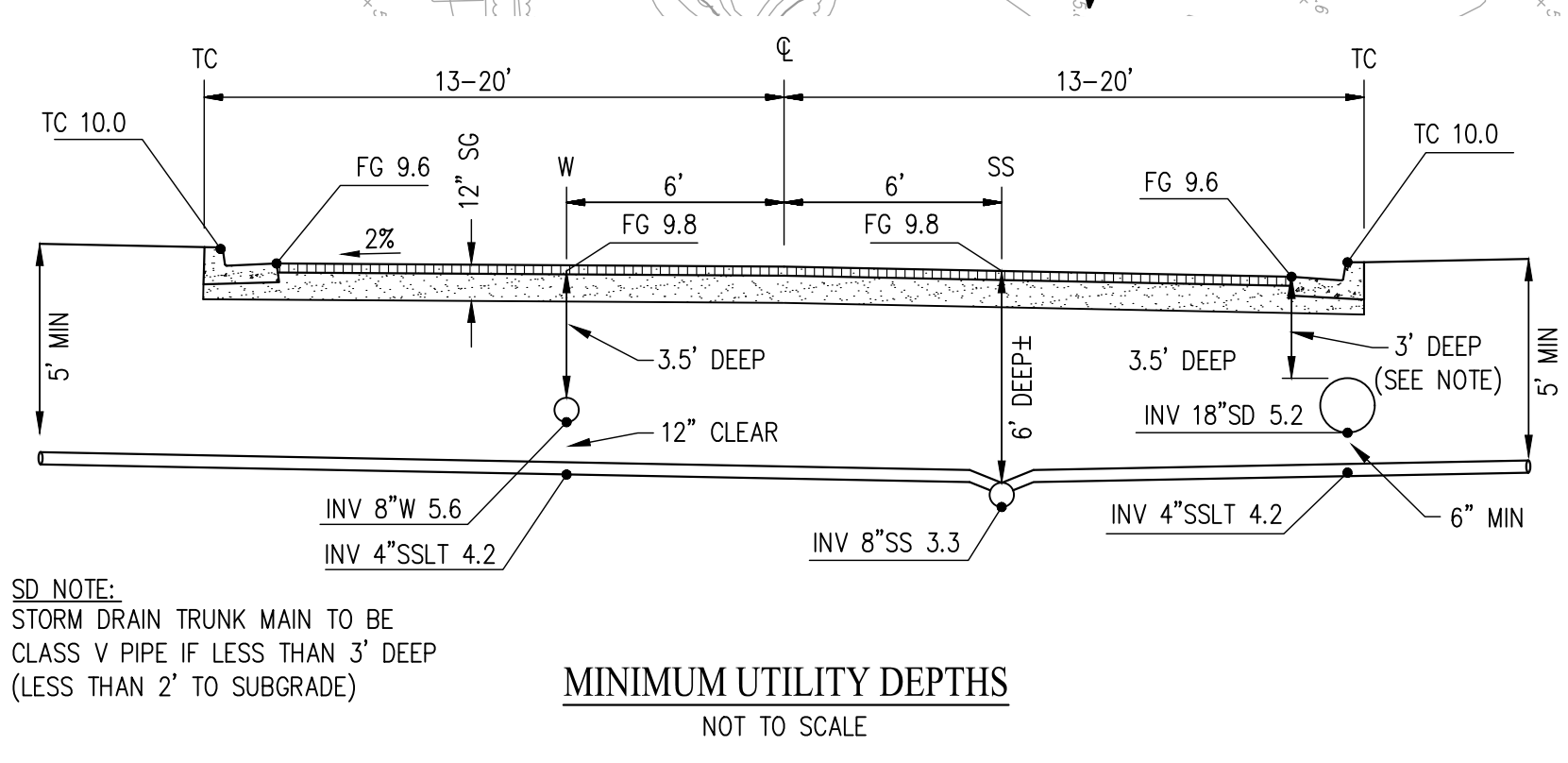
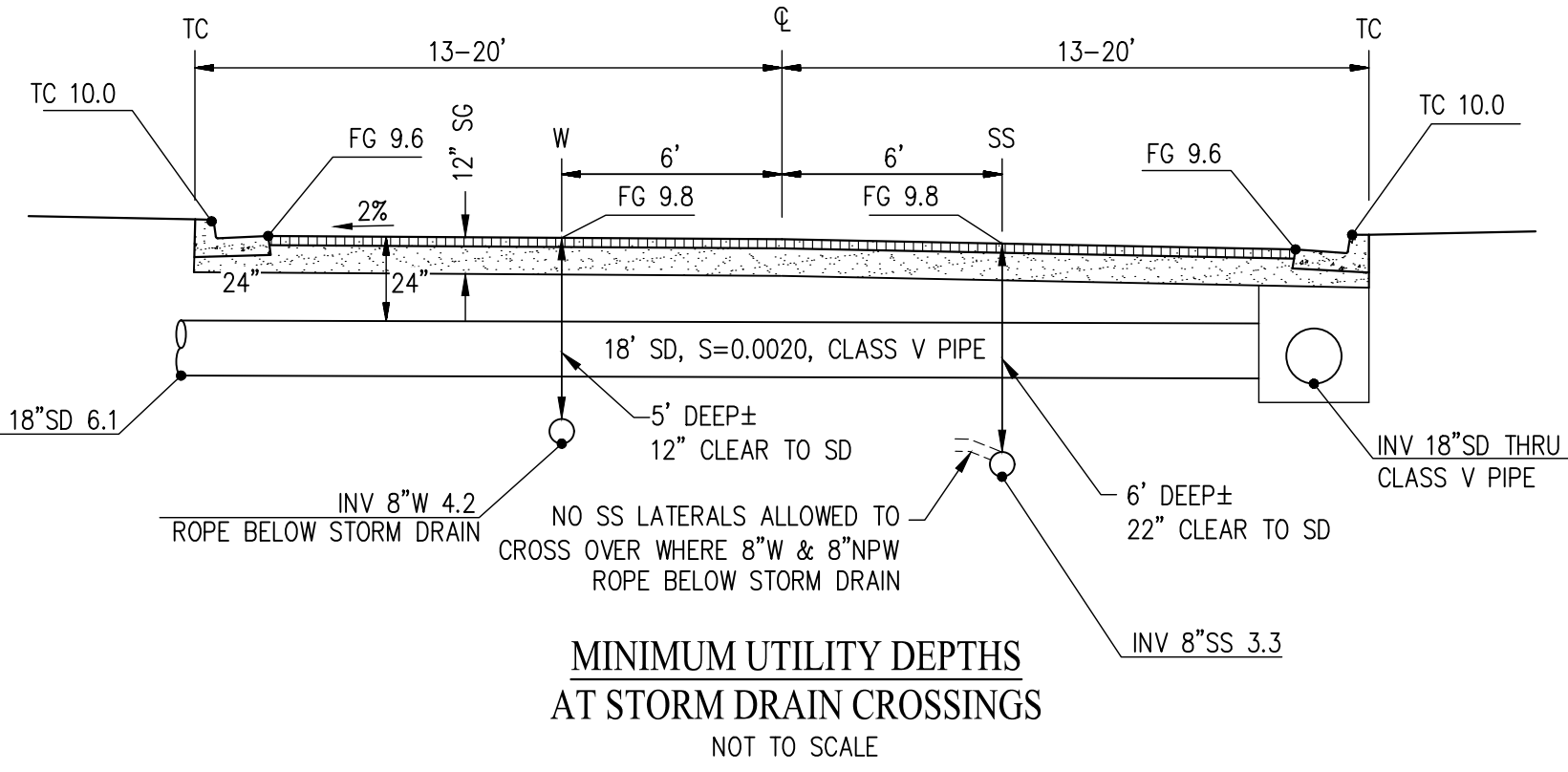


MINIMUM DEPTH PROJECT PARAMETERS:

- STORM DRAIN MINIMUM COVER IS 2' BELOW FINISH GRADE WITH CLASS V PIPE.
- WATER PIPE MINIMUM COVER IS 2.5' BELOW SUBGRADE (STANDARD PVC & NO CONCRETE CAP).
- SANITARY SEWER MINIMUM COVER IS 5' TO SUBGRADE.

UTILITY DESIGN NOTES:

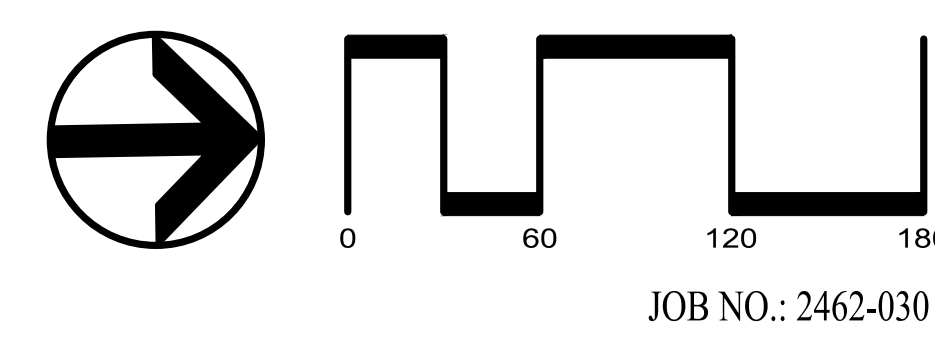
1. ALL STORM DRAIN HAS A MINIMUM SLOPE OF S=0.0020 AND MATCHES FLOW LINES.
2. ALL SANITARY SEWER HAS A MINIMUM SLOPE OF S=0.0035 AND IMPLEMENTS A 0.1' DROP AT MANHOLES WITH AN ANGLE GREATER THAN 20°.
3. ALL WATER LINES ARE AT A DEPTH OF APPROXIMATELY 2.5'-3.0' BELOW SUBGRADE, UNLESS ROPED BENEATH UTILITY CROSSINGS TO OBTAIN NECESSARY CLEARANCES.



VESTING TENTATIVE MAP PRELIMINARY UTILITY PLAN

HANSON LANE

CITY OF BRENTWOOD CONTRA COSTA COUNTY CALIFORNIA
SCALE: 1" = 60' DATE: NOVEMBER 2021

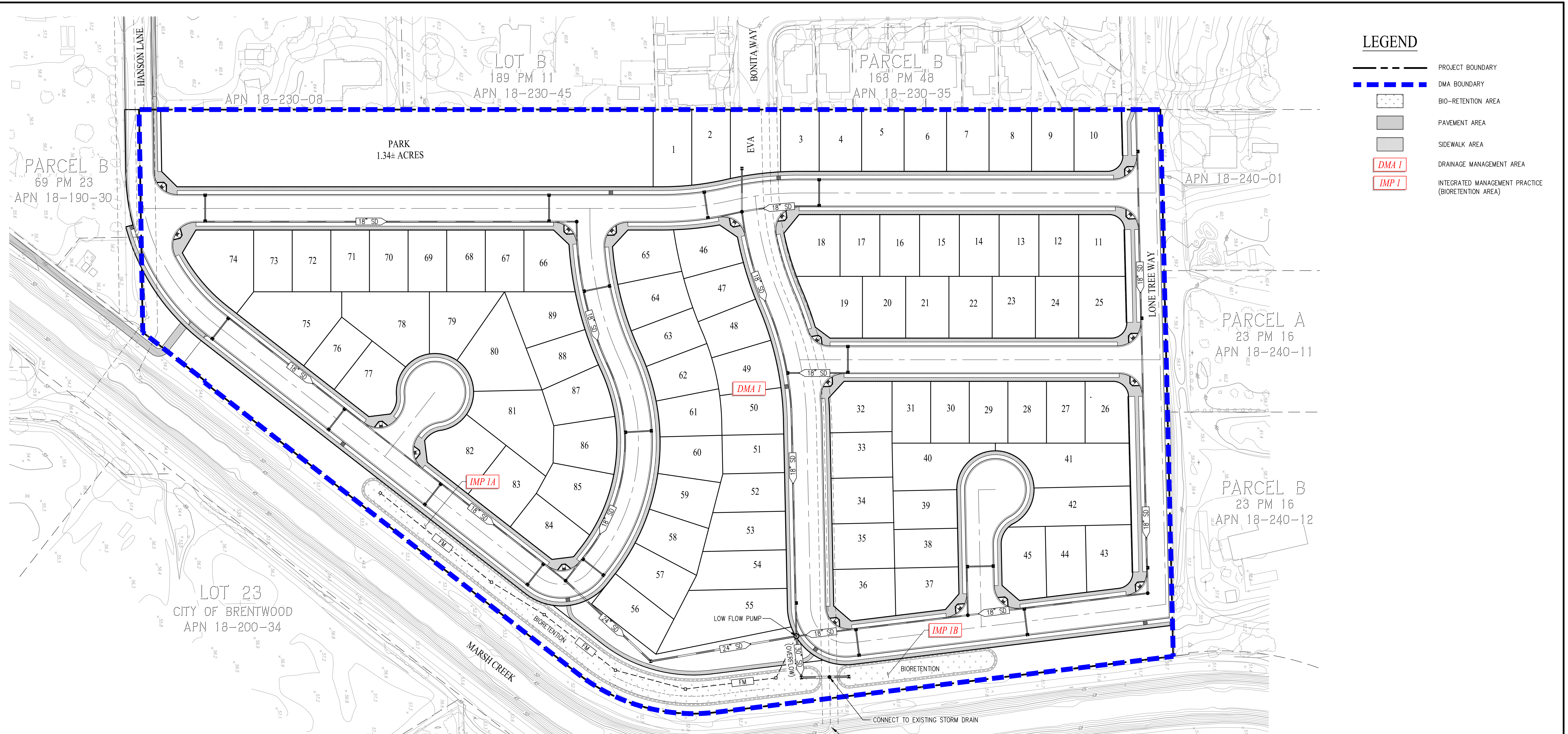


cbg
CIVIL ENGINEERS • SURVEYORS • PLANNERS

SAN RAMON • (925) 866-0322
ROSEVILLE • (916) 788-4456
WWW.CBANDG.COM

SHEET NO.
C4.0
OF 27 SHEETS

FIGURE 2B. PRELIMINARY UTILITY PLAN



LEGEND

- PROJECT BOUNDARY
- DMA BOUNDARY
- BIO-RETENTION AREA
- PAVEMENT AREA
- SIDEWALK AREA
- DRAINAGE MANAGEMENT AREA (DMA 1)
- INTEGRATED MANAGEMENT PRACTICE (IMP 1) (BIORETENTION AREA)

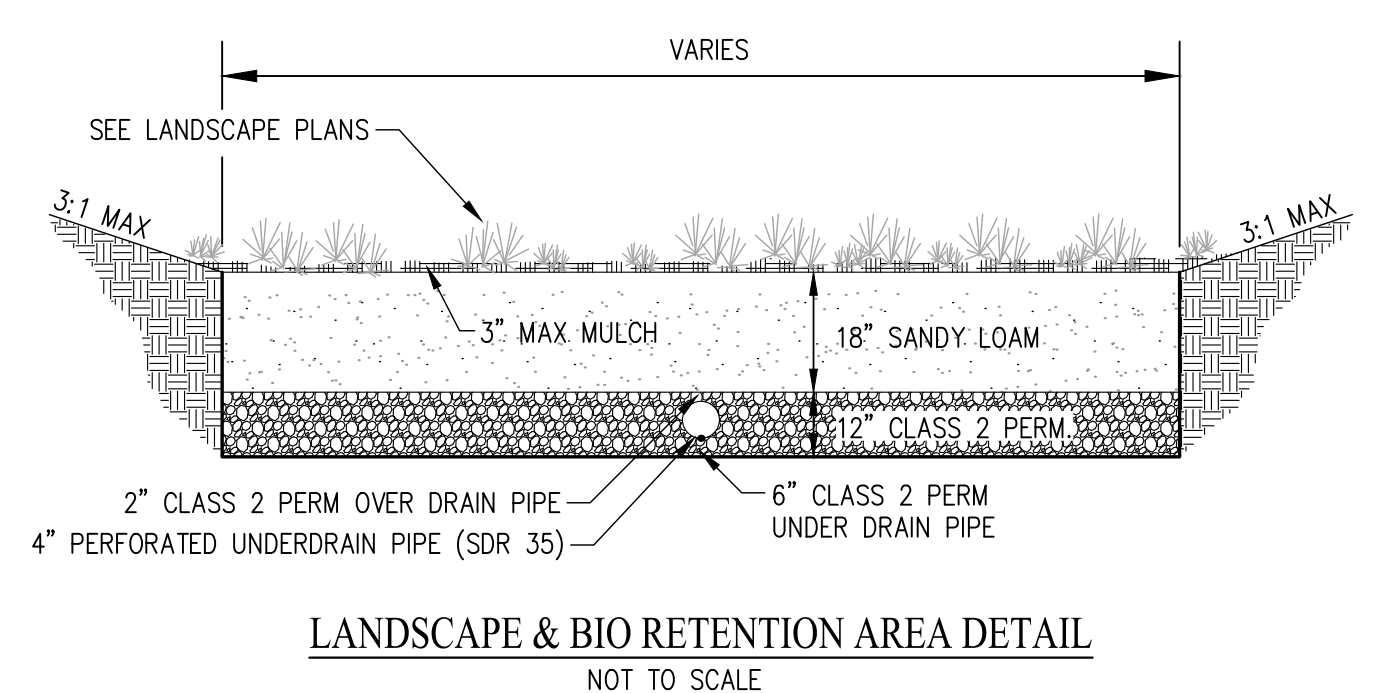
TENTATIVE MAP
**PRELIMINARY STORMWATER
 MANAGEMENT PLAN**
 HANSON LANE

CITY OF BRENTWOOD CONTRA COSTA COUNTY CALIFORNIA
 SCALE: 1" = 60' DATE: NOVEMBER 2021

DRAINAGE MANAGEMENT AREA SUMMARY

| AREA ID | PRIVATE IMPROVEMENTS | | TREATMENT AREA | |
|---------|-----------------------|---------------------|----------------|---------------|
| | IMPERVIOUS AREAS (SF) | PERVIOUS AREAS (SF) | REQUIRED (SF) | PROVIDED (SF) |
| DMA 1 | 439,649 | 420,987 | 19,270 | 22,796 |

- NOTES:**
- VALUES IN THE TABLE ABOVE ARE ESTIMATED BASED UPON THE AVAILABLE INFORMATION AT THE TIME OF THIS TENTATIVE MAP.
 - REQUIRED AREAS CALCULATED USING THE 4% RULE WITH A FACTOR OF 1.0 FOR IMPERVIOUS AREAS AND 0.1 FOR PERVIOUS AREAS (CONTRA COSTA COUNTY IMP SIZING TOOL).
 - HYDROMODIFICATION REQUIREMENTS TO BE DETERMINED DURING THE DESIGN OF THE CONSTRUCTION DOCUMENTS



NOTE:
 SANDY LOAM SOIL MIX SHALL HAVE MINIMUM LONG TERM PERCOLATION RATE OF 5"/HOUR.

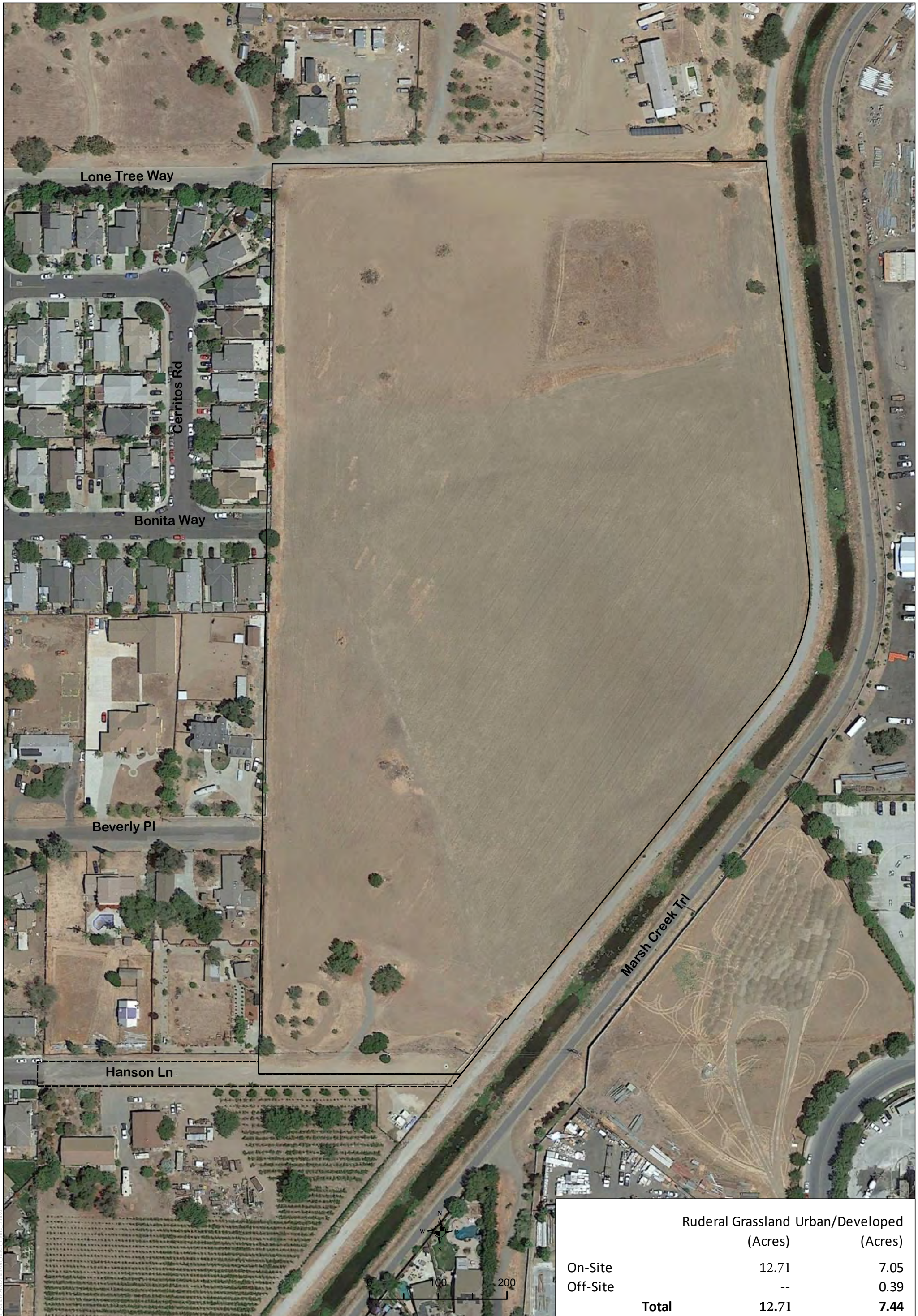
CIVIL ENGINEERS SURVEYORS PLANNERS

SAN RAMON (925) 866-0322
 ROSEVILLE (916) 788-4456
 WWW.CBANDG.COM

JOB NO.: 2462-030

SHEET NO. **C5.0** OF 27 SHEETS

FIGURE 2C. PRELIMINARY STORMWATER MANAGEMENT PLAN



| | Ruderal Grassland (Acres) | Urban/Developed (Acres) |
|--------------|------------------------------|----------------------------|
| On-Site | 12.71 | 7.05 |
| Off-Site | -- | 0.39 |
| Total | 12.71 | 7.44 |

Figure 3

- On-Site (19.76 ac.)
- Off-Site Improvements (0.39 ac.)
- Urban/Developed (7.44 ac.)
- Ruderal Grassland (12.71 ac.)

Map Date: 03/07/2022
Aerial Source: Google Earth (06/2021)

Field Verified Landcover Map

Hanson Ranch

Brentwood, Contra Costa County, CA

Moore Biological Consultants

C:\BEC\INCD\Projects\Hanson Ranch\BAMXD\Hanson_ranch_3.mxd



Ruderal grassland in the body of the site, looking east from the west edge of the site where Bonita Way will be extended further east into the site; 01/25/22.



Ruderal grassland in the body of the site, looking west from the east edge of the site; 01/25/22. The proposed subdivision will tie into an existing stormdrain system that extends from Bonita Way east into Marsh Creek.

FIGURE 4a



Transitional area (noted) between the leveled field and hillslope in the north part of the site, looking west from the east part of the site; 10/23/20. The leveled field has been recently disked.



Open sandy area in the northwest part of the site, looking west; 10/23/20. The East Contra Costa County Habitat Conservation Plan (ECCCHCP) fee map depicts this area as being previously urbanized.

FIGURE 4b



East edge of the site, looking northeast from near the southeast corner of the site; 01/25/22.



West edge of the site, looking north from the southwest corner of the site; 01/25/22.

FIGURE 4c



North edge of the site, looking east from the northwest corner of the site; 01/25/22.



West edge of the site, looking south from the northwest corner of the site; 01/25/22.

FIGURE 4d



Scattered trees in the southwest part of the site, looking west from the south part of the site; 01/25/22. There are 14 trees in this part of the site.



Paved driveway and trees in the south part of the site, looking north from the south edge of the site; 10/23/20. There was historically a home site in this part of the site and this area is depicted as urban on the ECCCHCP fee map.

FIGURE 4e



Storm drain outfall structure in Marsh Creek, looking northeast; 01/25/22. The proposed subdivision will tie into this stormdrain system, which extends underground through the center of the site.



Close-up of the storm drain outfall structure, looking northwest; 01/25/22.

FIGURE 4f



Ground squirrel burrow complex on a large mound in the north part of the site, looking north; 10/23/20. Several ground squirrel burrows were observed in the project site.



Hanson Lane, looking west from near the southeast corner of the site; 01/25/22. A sidewalk will be constructed along the north side of Hanson Lane for 320 feet to the west.

FIGURE 4g



| | Ruderal Grassland (Acres) | Urban/Developed (Acres) |
|--------------|------------------------------|----------------------------|
| On-Site | 12.71 | 7.05 |
| Off-Site | -- | 0.39 |
| Total | 12.71 | 7.44 |

Figure 5a

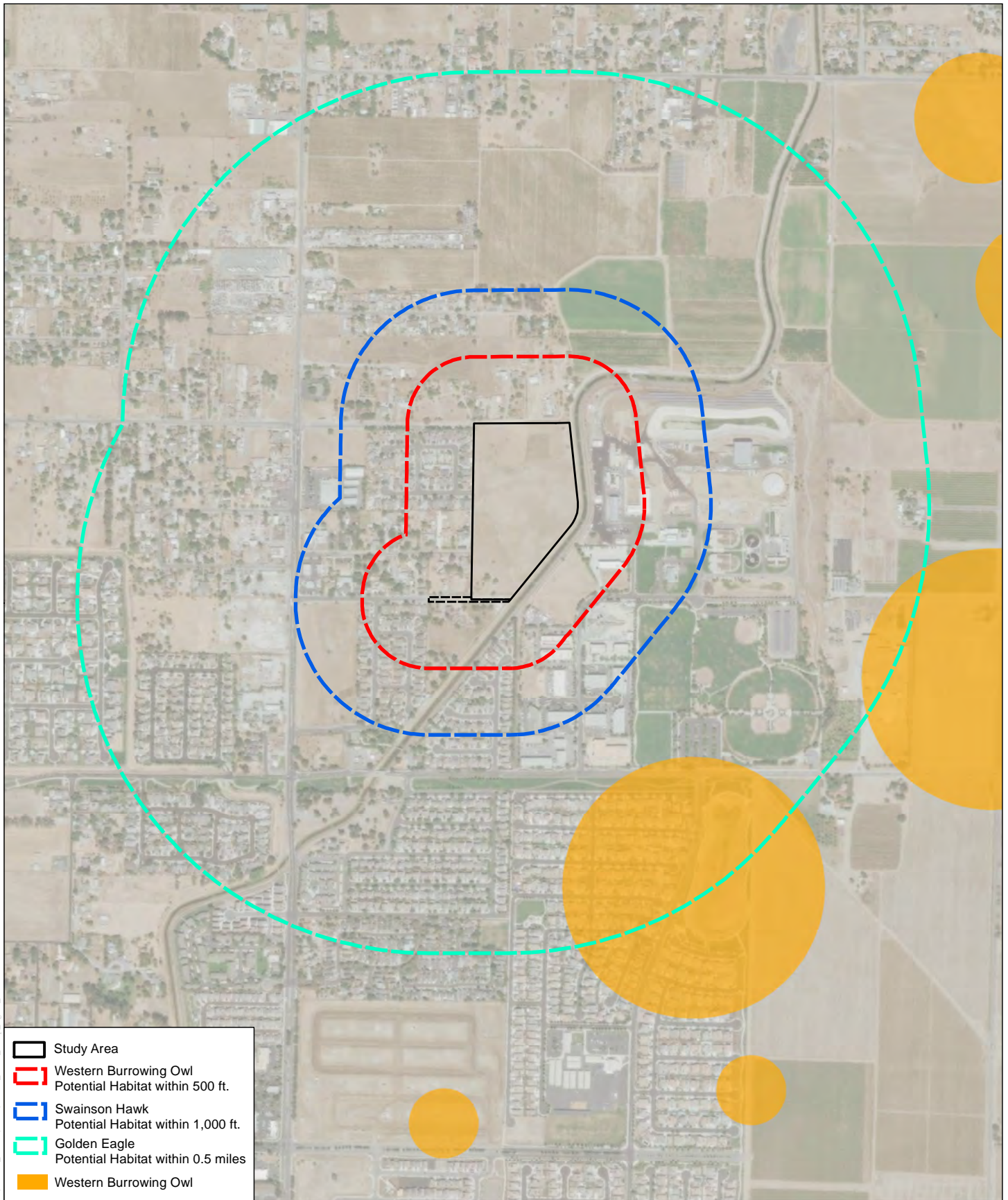
- On-Site (19.76 ac.)
- Off-Site Improvements (0.39 ac.)
- Urban/Developed (7.44 ac.)
- Ruderal Grassland (12.71 ac.); assumed habitat for western burrowing owl.
- Trees; assumed habitat for Swainson's hawk, golden eagle, and white-tailed kite.

Map Date: 03/07/2022
Aerial Source: Google Earth (06/2021)

Planning Survey Species Habitat Map

Hanson Ranch

Brentwood, Contra Costa County, CA








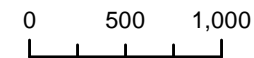
-  Study Area
-  Western Burrowing Owl
Potential Habitat within 500 ft.
-  Swainson Hawk
Potential Habitat within 1,000 ft.
-  Golden Eagle
Potential Habitat within 0.5 miles
-  Western Burrowing Owl

Figure 5b

**Moore Biological
Consultants**



Map Date: 03/07/2022
Aerial Photo: DigitalGlobe (2020)

Regional Species Habitat Map

Hanson Ranch

Brentwood, Contra Costa County, CA

ATTACHMENT C: PROJECT COMPLIANCE TO HCP CONDITIONS

Hanson Ranch

Project Compliance to HCP Conditions

March 2022

HCP/NCCP Conservation Measure 1.11. Avoid Direct Impacts on Extremely Rare Plants, Fully Protected Wildlife Species, or Covered Migratory Birds:

The potential for special-status plants to occur within the site is considered extremely remote, as described in Section III (10).

Species-specific pre-construction surveys, and if needed, monitoring and avoidance requirements for burrowing owl, Swainson's hawk, and golden eagle will be conducted as described in Section IV (2). There is no suitable habitat in the site for ringtail (*Bassariscus astutus*), a "fully protected species," per California Fish and Game Code Section 4700. Similarly, there is no suitable nesting habitat in the site for peregrine falcon (*Falco peregrinus*), a "fully protected species," per California Fish and Game Code Section 3511.

White-tailed kite (*Elanus caeruleus*), another "fully protected species," per California Fish and Game Code Section 3511 could potentially nest in trees in and near the site. Prior to any ground disturbance related to covered activities that occur during the nesting season (March 15-August 31), a qualified biologist will conduct a preconstruction survey no more than 1 month prior to construction to establish whether white-tailed kite is nesting in trees in or visible from the site. In the event active nests are found, the applicant shall notify the Implementing Entity (i.e., City of Oakley) and consult with CDFW for further guidance.

On-site tree, shrubs, and grasslands could be used by other species of nesting birds protected by the Migratory Bird Treaty Act. If possible, vegetation removal will occur outside of the general bird nesting season (February 1 through August 31). Alternately, a qualified biologist will conduct a preconstruction survey no more than 2 weeks prior to vegetation removal. In the event active nests are found, the applicant shall notify the Implementing Entity and consult with CDFW for further guidance.

HCP/NCCP Conservation Measure 1.10. Maintain Hydrologic Conditions and Minimize Erosion:

The project has been designed to maintain hydrologic conditions and minimize erosion. Standard construction best management practices (BMPs) will be employed

during construction to minimize the potential for erosion and off-site transport of fines. BMPs will include use of water trucks, appropriate compaction of soil, and installation of straw wattles, silt fences or other technologies along the perimeter of the site during construction, and stabilization of bare soils as appropriate with seeding, straw, and/or hydromulch.

HCP/NCCP Conservation Measure 2.12. Wetland, Pond, and Stream Avoidance and Minimization:

There are no potentially jurisdictional Waters of the U.S. Marsh Creek, which is adjacent to the site, will be fully avoided by project construction. The project will discharge treated water storm water in to Marsh Creek via an existing storm drain outfall and a sewer line will be constructed under the Marsh Creek channel using bore & jack technology.

The following measures from pages 6-33 through 6-35 will be implemented to avoid and minimize impacts of covered activities on wetlands:

- The project will comply with the guidelines in Conservation Measure 1.10 to minimize the effects of urban development on downstream hydrology, streams, and wetlands.
- Personnel conducting ground-disturbing activities adjacent to Marsh Creek will be trained by a qualified biologist in the avoidance and minimization measures and the permit obligations of project proponents working under the ECCCHCP. Vehicles and equipment will be parked on pavement, existing roads, and previously disturbed areas.
- Trash generated during project construction will be promptly and properly removed from the site.
- No construction or maintenance vehicles will be refueled within 200 feet of Marsh Creek unless a bermed and lined refueling area is constructed and hazardous material absorbent pads are available in the event of a spill.
- Appropriate erosion-control measures (e.g., fiber rolls, filter fences, vegetative buffer strips) will be used on site to reduce siltation and runoff of contaminants into Marsh Creek. Filter fences and mesh will be of material that will not entrap reptiles and amphibians. Erosion control blankets shall be used as a last resort because of their tendency to biodegrade slowly and trap reptiles and amphibians.
- Fiber rolls used for erosion control will be certified as free of noxious weed seed.
- Seed mixtures applied for erosion control will not contain invasive non-native

species, and will be composed of native species or sterile nonnative species.

- Herbicides will not be applied within the buffer area along Marsh Creek unless needed to control serious invasive plants. In this case, herbicides that have been approved for use by EPA in or adjacent to aquatic habitats may be used as long as label instructions are followed and applications avoid or minimize impacts on covered species and their habitats. Appropriate herbicides may be applied to the ruderal grassland within the buffer area during the dry season to control nonnative invasive species such as yellow star-thistle. Herbicide drift shall be minimized by applying the herbicide as close to the target area as possible.

HCP/NCCP Conservation Measure 1.7. Establish Stream Setbacks:

A stream is defined in Chapter 3 of the ECCCHCP as “a long, narrow body of flowing water that occupies a channel with defined bed and bank and moves to lower elevations under the force of gravity”.

Marsh Creek, which is adjacent to the site, will be fully avoided by project construction. A 75-foot stream setback will be implemented along Marsh Creek; the subdivision roads and lots will be located outside the stream setback. A series of bioretention basins and a short portion of a pedestrian path will be constructed within the setback.

Stream setbacks are designed to protect existing habitat quality, to protect water quality and hydrologic processes through buffering, and allow for at least minimal restoration (page 6-16). The stream setback measure is intended to achieve several purposes as listed on pages 6-16 and 6-17 of the ECCCHCP, along a variety of stream types. Six of the seven purposes have applicability to the project:

- Maintain or improve water quality by filtering sediments and pollutants from urban runoff before they reach the stream,
- Allow for protection of preserved and restored riparian woodland and scrub within and adjacent to the stream,
- Maintain a buffer zone between urban development and existing and restored nesting habitat for Swainson’s hawk and other bird species,
- Maintain and enhance the water quality of the stream to protect native fish populations, including populations of special-status species that occur in downstream creeks (i.e., fall-run Chinook salmon in Marsh Creek),
- Maintain a more viable wildlife corridor for some species (e.g., western pond turtle, raccoon) than would be present with a narrower buffer zone, and
- Maximize the natural flood protection value of the floodplain.

ATTACHMENT D: FEE CALCULATOR

ECCC HCP/NCCP 2021 Fee Calculator Worksheet

Permanent Impacts

PROJECT APPLICANT: MLC Holdings

PROJECT NAME: Hanson Ranch

APN(s): 018-230-034

JURISDICTION: Brentwood

DATE: March 1, 2022

| <u>DEVELOPMENT FEE</u> | ACREAGE PERMANENTLY IMPACTED (TABLE 1) ¹ | x | 2021 FEE PER ACRE (SUBJECT TO CHANGE) ² | = | |
|--|--|-------|---|----------|---------------------|
| See appropriate ordinance or HCP/NCCP Figure 9-1 to determine Fee Zone | Fee Zone 1 | 12.71 | \$17,602.20 | = | \$223,723.96 |
| | Fee Zone 2 | | \$35,204.40 | = | \$0.00 |
| | Fee Zone 3 | | \$8,801.84 | = | \$0.00 |
| | Development Fee Total | | | = | \$223,723.96 |

| <u>WETLAND MITIGATION FEE</u> | ACREAGE PERMANENTLY IMPACTED (TABLE 1) ¹ | x | 2021 FEE PER ACRE (SUBJECT TO CHANGE) ² | = | |
|-------------------------------|--|---|--|----------|---------------|
| | Riparian woodland / scrub | | \$85,924.69 | = | \$0.00 |
| | Perennial Wetland | | \$117,581.16 | = | \$0.00 |
| | Seasonal Wetland | | \$254,759.18 | = | \$0.00 |
| | Alkali Wetland | | \$241,192.12 | = | \$0.00 |
| | Ponds | | \$128,133.32 | = | \$0.00 |
| | Aquatic (open water) | | \$64,820.38 | = | \$0.00 |
| | Slough / Channel | | \$146,222.72 | = | \$0.00 |
| | STREAMS | | | | |
| | | x | 2021 FEE PER LINEAR FT (SUBJECT TO CHANGE) ² | = | |
| | Streams 25 feet wide or less | | \$700.52 | = | \$0.00 |
| | Streams greater than 25 feet wide | | \$1,055.22 | = | \$0.00 |
| | Wetland Mitigation Fee Total | | | = | \$0.00 |
| | 0.00 | | | | |

| <u>FEE REDUCTION³</u> | Development Fee reduction for land in lieu of fee | = | |
|----------------------------------|--|----------|---------------|
| | Development Fee reduction (up to 33%) for permanent assessments | = | |
| | Wetland Mitigation Fee reduction for wetland restoration/creation performed by applicant | = | |
| | Reduction Total | = | \$0.00 |

| <u>FINAL FEE CALCULATION</u> | | = | |
|------------------------------|--------------------------------|----------|---------------------|
| | Development Fee Total | = | \$223,723.96 |
| | Wetland Mitigation Fee Total | + | \$0.00 |
| | Fee Subtotal | = | \$223,723.96 |
| | Contribution to Recovery | + | |
| | TOTAL AMOUNT TO BE PAID | = | \$223,723.96 |

¹ City/County planning staff will consult the land cover map in the Final HCP/NCCP and will reduce the acreage subject to the Development Fee by the acreage of the subject property that was identified in the Final HCP/NCCP as urban, turf, landfill or aqueduct land cover.

² Development Fees are adjusted annually according to a formula that includes both a Home Price Index (HPI) and a Consumer Price Index (CPI). The Wetland Mitigation Fees are adjusted according to a CPI. The Conservancy conducted the 2013 periodic fee audit required by the HCP/NCCP. Action by the County and participating cities is pending, which could result in adjustments to some or all fees in 2021.

³ Fee reductions must be reviewed and approved by the Conservancy.

APPENDIX C

GEOTECHNICAL EXPLORATION REPORT

Project No.
11788.002.001

October 26, 2020

Mr. Paul Manyisha
Forward Planning Manager
MLC Holdings, Inc.
2603 Camino Ramon Suite #140
San Ramon, CA 94583

Subject: Hanson Lane Due Diligence
251 Hanson Lane
Brentwood, California

GEOTECHNICAL UPDATE LETTER

- References:
1. ENGEO: Geotechnical Exploration, Hanson Ranch, Brentwood, California; December 29, 2014; Project No. 11788.000.000
 2. Carlson, Barbee & Gibson, Inc.: Conceptual Site Plan, Hanson Ranch, Brentwood, California; August 5, 2016

Dear Mr. Manyisha:

ENGEO prepared the geotechnical report for the Hanson Ranch project in Brentwood, California, dated December 29, 2014 (Reference 1). It is our understanding that since the issuance of the geotechnical report, the original project conceptual planning has been changed.

As requested by the client, we reviewed the current conceptual plan, Reference 2. It is our opinion that the proposed residential development is feasible from a geotechnical standpoint. The previous recommendations provided in the report, Reference 1, are still applicable to the current project, with the following updates.

2019 CBC SEISMIC DESIGN PARAMETERS

Based on the encountered subsurface conditions, correlations to standard penetration resistance blow counts, we classified the project site as Site Class D in accordance with the 2019 CBC. We provide the 2019 CBC seismic design parameters in Table 1 below, which includes design spectral response acceleration parameters based on the mapped Risk-Targeted Maximum Considered Earthquake (MCE_R) spectral response acceleration parameters.

TABLE 1: 2019 CBC Seismic Design Parameters
Latitude: 37.960023 Longitude: -121.690289

| PARAMETER | VALUE |
|---|-------|
| Site Class | D |
| Mapped MCE _R Spectral Response Acceleration at Short Periods, S _S (g) | 1.32 |
| Mapped MCE _R Spectral Response Acceleration at 1-second Period, S ₁ (g) | 0.464 |
| Site Coefficient, F _A | 1 |

| PARAMETER | VALUE |
|--|-------|
| Site Coefficient, F_v | Null* |
| MCE _R Spectral Response Acceleration at Short Periods, S_{MS} (g) | 1.32 |
| MCE _R Spectral Response Acceleration at 1-second Period, S_{M1} (g) | Null* |
| Design Spectral Response Acceleration at Short Periods, S_{DS} (g) | 0.88 |
| Design Spectral Response Acceleration at 1-second Period, S_{D1} (g) | Null* |
| Mapped MCE Geometric Mean (MCE _G) Peak Ground Acceleration, PGA (g) | 0.543 |
| Site Coefficient, F_{PGA} | 1.1 |
| MCE _G Peak Ground Acceleration adjusted for Site Class effects, PGA_M (g) | 0.597 |
| Long period transition-period, T_L (sec) | 8 |

*Requires site-specific ground motion hazard analysis per ASCE 7-16 Section 11.4.8

Considering the single-family residential development, we estimate the fundamental periods of the proposed structures to be less than $1.5T_s$ (where T_s is 0.65 seconds for this project). Therefore, the structural engineer may consider exception(s) of Section 11.4.8 of ASCE 7-16 as follows:

“A ground motion hazard analysis is not required for structures... where, structures on Site Class D sites with S_1 greater than or equal to 0.2, provided the value of the seismic response coefficient C_s is determined by Eq. (12.8-2) of ASCE 7-16 for values of $T \leq 1.5T_s$ and taken as equal to 1.5 times the value computed in accordance with Eq. (12.8-3) of ASCE 7-16 for $1.5T_s < T \leq T_L$.”

We recommend that we collaborate with the structural engineer of record to further evaluate the effects of taking the exceptions on the structural design and identify the need for performing a site-specific seismic hazard analysis. We can provide a scope for site-specific seismic hazard analysis and ground motion study under separate cover, if needed.

If you have any questions or comments regarding this letter, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated



Bofei Xu, PE

bx/sh/dt



Steven Harris, GE, QSD



GEOTECHNICAL EXPLORATION

HANSON RANCH
HANSON LANE - (APN) 018-230-034
BRENTWOOD, CALIFORNIA



ENGEO

Expect Excellence

Submitted to:
Ms. Jenny Tan
Meritage Homes of California, Inc.
1671 East Monte Vista Avenue
Vacaville, CA 95688

Prepared by:
ENGEO Incorporated

December 29, 2014

Project No:
11788.000.000

Project No.
11788.000.000

December 29, 2014

Ms. Jenny Tan
Meritage Homes of California, Inc.
1671 East Monte Vista Avenue
Vacaville, CA 95688

Subject: Hanson Ranch
Hanson Lane - (APN) 018-230-034
Brentwood, California

GEOTECHNICAL EXPLORATION

Dear Ms. Tan:

With your authorization, ENGEO has completed this geotechnical exploration report for the proposed Hanson Ranch residential development located in Brentwood, California. The accompanying geotechnical exploration report compiles our field exploration and laboratory testing together with our conclusions and recommendations regarding residential development within the study area.

We believe that the project site is suitable for the proposed development provided the recommendations of this report are incorporated into the project design and implemented during construction. The main geotechnical concerns to the project are the potential for settlement due to potentially liquefiable soils, settlement of surface sand deposits, and undocumented fill within the historic Marsh Creek channel alignment.

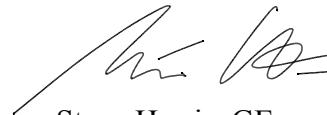
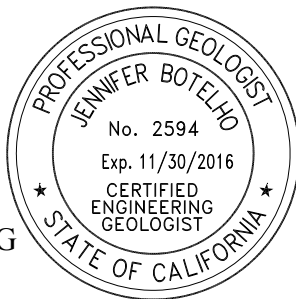
It is our opinion that these and other concerns can be successfully mitigated and the project can proceed successfully. We are pleased to have been of service to you on this project and are prepared to consult further with you and your design team as the project progresses.

Sincerely,

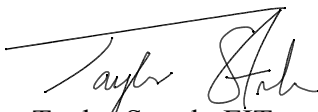
ENGEO Incorporated



Jennifer R. Botelho, CEG



Steve Harris, GE



Taylor Strack, EIT
jrb/sh/pg/bvv

TABLE OF CONTENTS

Letter of Transmittal

| | | |
|------------|---|-----------|
| 1.0 | INTRODUCTION | 1 |
| 1.1 | PURPOSE AND SCOPE..... | 1 |
| 1.2 | PROJECT LOCATION & DESCRIPTION..... | 1 |
| 2.0 | FINDINGS..... | 1 |
| 2.1 | FIELD EXPLORATION..... | 1 |
| 2.1.1 | Cone Penetration Test..... | 2 |
| 2.1.2 | Borings..... | 2 |
| 2.2 | SITE BACKGROUND AND EXISTING IMPROVEMENTS | 2 |
| 2.3 | GEOLOGY AND SEISMICITY | 3 |
| 2.3.1 | Geology..... | 3 |
| 2.3.2 | Seismicity..... | 3 |
| 2.4 | SURFACE CONDITIONS..... | 4 |
| 2.5 | SUBSURFACE CONDITIONS..... | 4 |
| 2.6 | GROUNDWATER CONDITIONS..... | 5 |
| 2.7 | LABORATORY TESTING | 5 |
| 2.8 | GEOLOGIC HAZARDS..... | 5 |
| 2.8.1 | Ground Rupture | 6 |
| 2.8.2 | Ground Shaking | 6 |
| 2.8.3 | Liquefaction | 6 |
| 2.8.3.1 | Dynamic Densification | 7 |
| 2.8.4 | Ground Lurching..... | 7 |
| 2.8.5 | Lateral Spread..... | 7 |
| 2.9 | EXPANSIVE SOIL..... | 7 |
| 2.10 | UNDOCUMENTED FILL | 8 |
| 2.11 | FLOODING..... | 8 |
| 2.12 | CBC SEISMIC DESIGN PARAMETERS..... | 8 |
| 2.13 | CORROSIVITY CONSIDERATIONS | 9 |
| 3.0 | CONCLUSIONS | 11 |
| 4.0 | EARTHWORK RECOMMENDATIONS | 11 |
| 4.1 | DEMOLITION AND STRIPPING | 11 |
| 4.2 | SITE PREPARATION | 12 |
| 4.3 | DUNE SAND GRADING..... | 12 |
| 4.4 | OVER-OPTIMUM SOIL MOISTURE CONDITIONS | 12 |
| 4.5 | CUT/FILL TRANSITION OR CUT LOTS | 12 |
| 4.6 | ACCEPTABLE FILL..... | 13 |
| 4.7 | ENGINEERED FILL | 13 |
| 4.7.1 | Grading in Structural Areas | 13 |
| 4.7.2 | Underground Utility Backfill..... | 13 |

TABLE OF CONTENTS (Continued)

| | | |
|-------------|--|-----------|
| 4.8 | SLOPE GRADIENTS..... | 14 |
| 4.9 | SITE DRAINAGE..... | 14 |
| 4.10 | LANDSCAPING CONSIDERATION..... | 14 |
| 5.0 | FOUNDATION RECOMMENDATIONS | 15 |
| 5.1 | SLOPE SETBACK | 15 |
| 5.2 | POST-TENSIONED MAT FOUNDATIONS | 15 |
| 5.3 | SLAB MOISTURE VAPOR REDUCTION..... | 16 |
| 5.4 | FOUNDATION LATERAL RESISTANCE | 16 |
| 6.0 | SECONDARY SLABS-ON-GRADE | 16 |
| 7.0 | RETAINING AND SOUND WALLS | 17 |
| 7.1 | STRUCTURAL WALLS AND SOUNDS WALLS | 17 |
| 7.2 | RETAINING WALL DRAINAGE | 17 |
| 7.3 | BACKFILL..... | 18 |
| 7.4 | FOUNDATIONS..... | 18 |
| | 7.4.1 Shallow Footings | 18 |
| | 7.4.2 Drilled Piers Foundation..... | 19 |
| 8.0 | PAVEMENT DESIGN..... | 19 |
| 9.0 | LIMITATIONS AND UNIFORMITY OF CONDITIONS..... | 20 |

FIGURES

APPENDIX A – Cone Penetration Test Data and Liquefaction Analysis Summary

APPENDIX B – Exploration Logs

APPENDIX C – Laboratory Test Data

APPENDIX D – Sunland Analytical – Corrosion Test Data

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

We prepared this geotechnical report for design of the planned residential development in Brentwood, California. We prepared this report as outlined in our proposal dated November 13, 2014. The purpose of this geotechnical report is to provide conclusions and recommendations regarding site development and foundation design for the proposed residential development. The scope of our services included a review of available literature and geologic maps for the immediate area, advancing four Cone Penetration Test (CPT) probes and five test borings, laboratory testing of sampled materials, geotechnical data analysis, and report preparation summarizing our recommendations for residential site development.

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

1.2 PROJECT LOCATION & DESCRIPTION

Figure 1 displays a Site Vicinity Map. The site is approximately 20 acres and accessed from the south by Hanson Lane and on the north by Lone Tree Way. The site is bound to the east and southeast by Marsh Creek and to the north and west by residential, ranch style properties. The northern and southern areas of the site are topographically elevated relative to the center and eastern areas. Figure 2 details these site boundaries and our exploratory locations.

Development plans have not been prepared at this time, we expect that the proposed development will include single-family residences with interior subdivision roads and utilities servicing the development. We anticipate that the proposed structures will be one to two stories. Therefore, the building loads are expected to be light to moderate.

2.0 FINDINGS

2.1 FIELD EXPLORATION

We performed our field explorations on December 9 and 16, 2014. Our field exploration included advancing four CPTs and drilling five borings at the locations shown on the Site Plan, Figure 2. Explorations were located by pacing from existing features and elevations interpolated from a topographic map; the locations should be considered accurate only to the degree implied by the method used.

2.1.1 Cone Penetration Test

We retained a CPT rig to push the cone penetrometer to a maximum depth of about 50 feet. The CPT has a 10-ton compression-type cone with a 10-square-centimeter (cm²) base area, an apex angle of 60 degrees, and a friction sleeve with a surface area of 150 cm². The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5-cm intervals with a penetration rate of 2 cm per second in accordance with ASTM D-3441. Measurements include the tip resistance to penetration of the cone (Q_c), the resistance of the surface sleeve (F_s), and pore pressure (U). CPT logs are presented in Appendix A. The truck is a 10-wheeled truck with a reaction weight of 43,000 pounds. The data acquisition system was produced by Hogentogler and software updates are provided by ARA/Vertek with the latest being Version 2007.2.1. Soundings were grouted full depth with neat cement.

2.1.2 Borings

A track-mounted CME-55 drill rig was used to advance the borings using 8-inch-diameter hollow-stem augers. The borings were advanced to depths ranging from approximately 21½ to 51½ feet below existing grade.

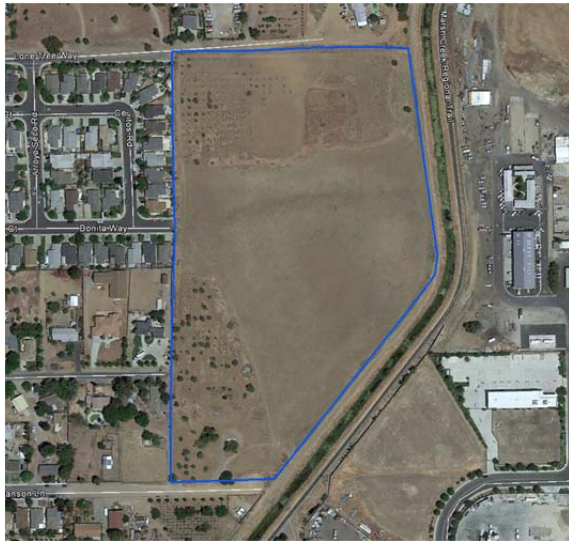
An ENGEO representative logged the borings in the field and collected disturbed and relatively undisturbed soil samples using a 2½-inch-inside-diameter (I.D.) California-type split-spoon sampler fitted with 6-inch-long stainless steel liners and a 2-inch O.D. Standard Penetration Test (SPT) split-spoon sampler.

The standard blow counts were obtained by dropping a 140-pound hammer through a 30-inch fall employing an auto-trip hammer. The samplers were driven 18 inches and the number of blows was recorded for each 6 inches of penetration. The blows per foot recorded on the boring logs represent the accumulated number of blows required to drive the last 1 foot of penetration; the blow counts reported on the logs have not been converted using any correction factors.

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

2.2 SITE BACKGROUND AND EXISTING IMPROVEMENTS

We reviewed images of the site from Google Earth and photographs provided by Environmental Data Resources dating back to 1938. It appears the site was historically utilized for agricultural purposes; possibly as an orchard on the elevated areas and row crops in the lower flat area. Marsh Creek borders the site along the western edge. The current creek alignment has been altered from the original channel as is shown in the images below:



Google Earth 2014 image



Google Earth 1938 image

It appears that the channel was altered between 1958 and 1966. Creek channel bends were filled in at the southeastern boundary of the site and the northeastern boundary of the site. Documentation of construction activities for the channel realignment was not available for our review. There is a large diameter storm drain line that traverses the site from the western terminus of Bonita Way to the east with an outlet into Marsh Creek. We assume that the storm drain line was installed during the development of the property to the east including Bonita Way in the late 1990s early 2000s. It is not known if the storm drain line was backfilled with engineered fill, if documentation regarding the backfill is not available, the material above the pipe should be removed and placed back as an engineered fill.

2.3 GEOLOGY AND SEISMICITY

2.3.1 Geology

Geologic map (Dibblee, 2006, Figure 3) of the site indicate the soils comprise dune sand (Qd) and alluvial loam (Ql). The topography shown on Dibblee and available through Google Earth indicates the dune sand in the northern and southern portions of the site are topographically elevated by approximately 10 to 14 feet than the flatter eastern and central portions of the site. Elevations range from approximately 52 feet above mean sea level (msl) in the flat portion of the site to an elevation of approximately 62 feet above msl on the dunes with a topographic high of approximately 68 feet above msl in the north-central area of the site.

2.3.2 Seismicity

The San Francisco Bay Area contains numerous active earthquake faults. An active fault is defined by the State Mining and Geology Board as one that has had surface displacement within Holocene time (about the last 11,000 years) (California Geological Survey, 2007).

Numerous small earthquakes occur every year in the San Francisco Bay Region, and larger earthquakes have been recorded and can be expected to occur in the future. Figure 4 shows the approximate locations of these faults and significant historic earthquakes recorded within the San Francisco Bay Region.

The site is not located within a currently designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults is believed to exist within the site. The site lies within a seismically active region. According to the USGS Fault and Fold Database, the nearest active faults are the Greenville Fault and Mount Diablo Thrust Fault, located about 9½ miles west and 16½ miles west, respectively. Based on USGS Open-File Report 2008–1128, the Greenville Fault and Mount Diablo Thrust Fault are considered capable of a moment magnitude earthquake of 7.0 and 6.7, respectively.

Additionally, the Great Valley Fault, a buried thrust fault, underlies the general Brentwood area. The location of the Great Valley Fault is inferred from regional data; the fault does not extend to the ground surface and its location is not accurately known. The USGS Fault and Fold Database maps Segment 5 of the Great Valley Fault, also named the Pittsburg Kirby Hills Fault, approximately 9.3 miles east of the site and is considered capable of a moment magnitude earthquake of 6.5 to 6.7. This fault is not zoned as active by the State of California.

2.4 SURFACE CONDITIONS

We observed the following site features during our reconnaissance:

- The site is generally covered by seasonal grasses and weeds.
- There is an existing structure foundation, agricultural equipment, and wood and metal debris from a former residence in the southern portion of the site. There is other agricultural related equipment and debris located in the northern portion of the site.
- There are a few larger trees in the northern and southern portions of the site.
- The central and eastern flat, topographically lower area of the site, appears to have been recently disked.
- There is a large diameter storm drain line that traverses the site from the eastern terminus of Bonita Way with an outlet into Marsh Creek.
- There are multiple concrete irrigation boxes adjacent to Marsh Creek.

2.5 SUBSURFACE CONDITIONS

Our explorations generally encountered soft to very stiff lean clay, lean clay with sand and sandy clay with interbedded layers of loose to dense clayey sand, silty sand and poorly graded sand to the total depth explored. In addition, we encountered loose to medium dense poorly graded sand

to approximately 24 feet and 30 feet depth in 1-B4 and 1-CPT5 respectively. Within CPT-1 and 1-B1 we encountered material we interpreted as fill in the upper approximately 15 to 20 feet.

Consult the Site Plan and boring logs for specific subsurface conditions at each location. We include our CPT Data and boring logs in Appendices A and B. The logs contain the soil type, color, consistency, and visual classification in general accordance with the Unified Soil Classification System. The logs graphically depict the subsurface conditions encountered at the time of the exploration.

2.6 GROUNDWATER CONDITIONS

We observed static groundwater in several of our subsurface explorations. We summarize our observations in the table below:

TABLE 2.6-1
Groundwater Observations

| Exploration Location | Approximate Depth to Groundwater during drilling (feet) |
|----------------------|---|
| 1-B1 | 23 |
| 1-B2 | 20 |
| 1-B3 | 20 |
| 1-B5 | 15 |

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

2.7 LABORATORY TESTING

We performed laboratory tests on selected soil samples to determine their engineering properties. For this project, we performed moisture content, dry density, unconfined compression, plasticity index, sieve and hydrometer. Moisture contents, dry densities, percent fines and unconfined strength are recorded on the boring logs in Appendix B; laboratory data is included in Appendix C.

2.8 GEOLOGIC HAZARDS

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

2.8.1 Ground Rupture

Since there are no known active faults crossing the property and the site is not located within an Earthquake Fault Special Study Zone, it is our opinion that ground rupture is unlikely at the subject property.

2.8.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the San Francisco Bay Region could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, all structures should be designed using sound engineering judgment and the 2013 California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead-and-live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

2.8.3 Liquefaction

Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soils most susceptible to liquefaction are clean, loose, saturated, uniformly graded and fine-grained sands. Empirical evidence indicates that loose to medium-dense gravels, silty sands, and low- to moderate-plasticity silts and clays may be susceptible to liquefaction. In addition, sensitive high-plasticity soils may be susceptible to significant strength loss (cyclic softening) as a result of significant cyclic loading. The silts and clays encountered are not sensitive and, therefore, not subject to cyclic softening. We summarize the results of our liquefaction analysis below.

We evaluated the liquefaction potential of the site soil with SPT data using methods published by Youd et al. (2001) and with CPT data using methods published by Robertson (2009). The Cyclic Stress Ratio (CSR) was estimated for a Peak Ground Acceleration (PGA_M) value of 0.50g, which is the mapped Maximum Considered Earthquake (MCE) Geometric Mean Peak Ground Acceleration based on the 2013 CBC for a Site Class D. We also used a moment magnitude (M_w) of 7.0 in our analysis, which corresponds to the maximum magnitude for the Greenville fault based on the United States Geological Survey (USGS) national seismic hazard maps. We considered a design groundwater depth of approximately 20 feet in our analysis. In addition, a

groundwater depth of 23 and 30 feet for 1-B1 and 1-CPT5 respectively were considered based on recorded groundwater depths.

Our liquefaction analysis indicates relatively discontinuous layers silty sand and clean sand layers as potentially liquefiable. These soil layers range from approximately 1 to 8 feet in thickness and range in depth from approximately 20 to 50 feet. We estimate up to 1½ inches of liquefaction-induced settlement and ¾ of an inch of differential settlement in a design-level seismic event based on the results of our liquefaction analysis. Based on the thickness of the non-liquefiable surface soils and the discontinuous nature of the potentially liquefiable soil, it is our opinion that the risk of surface disruption is low. Appendix C includes the results of our CPT-based liquefaction analysis.

2.8.3.1 Dynamic Densification

Densification of loose granular soils can cause settlement of the ground surface due to earthquake-induced vibrations. In general, sands encountered above the groundwater level at the site were loose to medium dense. We evaluated the potential for dynamic densification using SPT- and CPT-based methods outlined in Tokimatsu & Seed (1987) and Robertson (2009), respectively. The results of our analysis indicate up to 2 inches of settlement within the 1B-4 area and up to ½ inch of settlement within the 1-CPT5 area in the event of the design MCE level earthquake.

2.8.4 Ground Lurching

Ground lurching is a result of the rolling motion imparted to the ground surface during energy released by an earthquake. Such rolling motion can cause ground cracks to form in weaker soils. The potential for the formation of these cracks is considered greater at contacts between deep alluvium and bedrock. Such an occurrence is possible at the site as in other locations in the Bay Area, but based on the site location, it is our opinion that the offset is expected to be very minor. We provide recommendations for foundations in this report that are intended to reduce the potential for adverse impacts from lurch cracking.

2.8.5 Lateral Spread

Lateral spreading is a failure within a nearly horizontal soil zone, commonly associated with liquefaction, which causes the overlying soil mass to move toward a free face or down a slope. As previously stated, we encountered layers of loose to medium-dense sands that have a potential for liquefaction. The site is located adjacent to a free face along Marsh Creek. Based on the encountered depth of groundwater and the depth of the liquefiable layers relative to the creek bottom, the potential for lateral spread is low.

2.9 EXPANSIVE SOIL

The near-surface site soils within the topographically lower area of the site exhibit moderate expansion potential with Plasticity Index (PI) of 17. The topographically elevated areas of the

site are non-plastic sand with approximately 5 percent fine-grained material. Expansive soils shrink and swell as a result of moisture changes, which can cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Building damage due to moisture changes in expansive soils and differential conditions between expansive and non-expansive soils can be reduced by appropriate grading practices and using post-tensioned slab foundations or similarly stiffened foundation systems, which are designed to resist the deflections associated with soil expansion. Our recommendations for mitigation of this potential hazard are presented in following sections of this report.

2.10 UNDOCUMENTED FILL

Undocumented fills can undergo excessive settlement, especially under new fill or building loads. As previously discussed, there is undocumented fill within the former alignment of Marsh Creek, Figure 2. There may be additional areas of undocumented fill associated with the former residence and the storm drain alignment. Within areas to receive improvements, we recommend complete removal and recompacting of any undocumented fill, if encountered. In addition, any loose surface soils outside of the dune sand area shown in Figure 2. should be removed if greater than 12 inches in depth and replaced with engineered fill.

2.11 FLOODING

Based on review of the FEMA flood zone map, the central and east topographically lower areas of the site is located within a designated flood zone. The Civil Engineer should review pertinent information relating to possible flood levels for the subject site based on final pad elevations and provide appropriate design measures for development of the project, if necessary.

2.12 CBC SEISMIC DESIGN PARAMETERS

The following table includes seismic design criteria utilizing the 2013 California Building Code (CBC) criteria. The 2013 CBC stipulates the use of design criteria set forth in the 2010 ASCE Standard 7-10. To determine the 2013 CBC seismic parameters, we used the recently developed USGS Seismic Design Map online tool, which includes design spectral response acceleration parameters based on the mapped Risk-Targeted Maximum Considered Earthquake (MCER) spectral response acceleration parameters. Based on the subsurface soil conditions and local seismic sources, the site may be characterized for design based on the 2013 California Building Code using the following information.

TABLE 2.12-1
2013 CBC Seismic Design Parameters

| Parameter | Design Value |
|---|--------------|
| Site Class | D |
| Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S | 1.44 |
| Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 | 0.49 |

| Parameter | Design Value |
|---|--------------|
| MCE _R Spectral Response Acceleration at Short Periods, S _{MS} | 1.44 |
| MCE _R Spectral Response Acceleration at 1-second Period, S _{M1} | 0.74 |
| Design Spectral Response Acceleration at Short Periods, S _{DS} | 0.96 |
| Design Spectral Response Acceleration at 1-second Period, S _{D1} | 0.49 |
| Long period transition-period, T _L | 8 seconds |

2.13 CORROSION CONSIDERATIONS

Two representative soil samples were collected during our field exploration and transported under proper chain-of-custody to Sunland Analytical for laboratory testing. The sample was tested for redox potential, pH, resistivity, sulfate ion and chloride ion concentration. These tests provide an indication of the corrosion potential of the soil environment on buried concrete structures and metal pipes. The results are summarized below and are included in Appendix D.

TABLE 2.13-1
Soil Corrosivity Test Results

| Sample No. | pH | Moisture | Resistivity (ohms-cm) (x1000) | Chloride* (mg/kg) | Sulfate* (mg/kg) | Redox Potential (mv) |
|----------------|------|----------|-------------------------------|-------------------|------------------|----------------------|
| 1-B2 at 1.5 ft | 6.81 | 14.7 | 1.66 | 9.5 | 2.4 | 240 |
| 1-B4 at 2 ft | 6.32 | 5.9 | 20.64 | 7.2 | 1.2 | 232 |

*Results reported on "As Received Basis"

The 2013 CBC references the 2011 American Concrete Institute Manual, ACI 318-11, Chapter 4, Sections 4.2.1 for structural concrete requirements. ACI Table 4.2.1 provides the following exposure categories and classes, and concrete requirements in contact with soil based upon the exposure risk.

TABLE 2.13-2
ACI Table 4.2.1: Exposure Categories and Classes

| Category | Severity | Class | Condition |
|---------------------------|----------------|-------|--|
| F Freezing and thawing | Not Applicable | F0 | Concrete not exposed to freezing-and-thawing cycles |
| | Moderate | F1 | Concrete exposed to freezing-and-thawing cycles and occasional exposure to moisture |
| | Severe | F2 | Concrete exposed to freezing-and-thawing cycles and in continuous contact with moisture |
| | Very Severe | F3 | Concrete exposed to freezing-and-thawing cycles and in continuous contact with moisture and exposed to deicing chemicals |

| Category | Severity | Class | Condition | |
|---|----------------|-------|--|---|
| S Sulfate | | | Water- Soluble Sulfate in Soil % by Weight* | Dissolved Sulfate in Water mg/kg (ppm)** |
| | Not applicable | S0 | $SO_4 < 0.10$ | $SO_4 < 150$ |
| | Moderate | S1 | $0.10 \leq SO_4 < 0.20$ | $150 \leq SO_4 \leq 1,500$ seawater |
| | Severe | S2 | $0.20 \leq SO_4 \leq 2.00$ | $1,500 \leq SO_4 \leq 10,000$ |
| | Very severe | S3 | $SO_4 > 2.00$ | $SO_4 > 10,000$ |
| P Requiring low permeability | Not applicable | P0 | In contact with water where low permeability is not required. | |
| | Required | P1 | In contact with water where low permeability is required. | |
| C Corrosion protection of reinforcement | Not applicable | C0 | Concrete dry or protected from moisture | |
| | Moderate | C1 | Concrete exposed to moisture but not to external sources of chlorides | |
| | Severe | C2 | Concrete exposed to moisture and an external source of chlorides from deicing chemicals, salt, brackish water, seawater, or spray from these sources | |
| *Percent sulfate by mass in soil determined by ASTM C1580 | | | | |
| **Concentration of dissolved sulfates in water in ppm determined by ASTM D516 or ASTM D4130 | | | | |

In accordance with the criteria presented in the above table, these soils are categorized as Not Applicable, and are within the F0 freeze-thaw class, S0 sulfate exposure class, P0 exposure class and C0 corrosion class. Cement type, water-cement ratio, and concrete strength, are not specified for these ranges.

Based on the resistivity measurements, the soils are considered moderately corrosive to buried metal piping. Values tested for chloride do not pose a significant impact to metals or concrete.

In accordance with the criteria presented in ACI 318-08, the test results are classified in the S0 sulfate exposure class. Cement type and water-cement ratio are not specified for this class. However, testing was not completed for all depths of potential embedment. Once more specifics of the proposed improvements are known, we can provide additional testing and/or guidance regarding the exposure risk for sulfates. As minimum requirements, we recommend that Type II cement be used in foundation concrete for structures at the project site, and concrete should incorporate a maximum water cement ratio of 0.5 and a minimum compressive strength of 3,000 psi. It should be noted, however, that the structural engineering design requirements for concrete might result in more stringent concrete specifications.

If desired to investigate this further, we recommend a corrosion consultant be retained to evaluate if specific corrosion recommendations are advised for the project. Please see the test results in Appendix D for complete test results including analytical test methods.

3.0 CONCLUSIONS

It is our opinion that the geotechnical concerns may be mitigated if our recommendations are incorporated in the design of the project and implemented during construction. Based on our geotechnical exploration, the main geotechnical concerns to the project are the potential for settlement due to potentially liquefiable soils, settlement of surface sand deposits, and undocumented fill within the historic Marsh Creek channel alignment. In general, our approach to mitigate potential impacts associated with settlement is to recommend stiffened foundations such as post-tensioned mat foundations for the residential structures and removal of undocumented fill and replacement with engineered fill.

Other geotechnical matters addressed in this report include site preparation and grading, foundation design recommendations, retaining walls, pavements, underground utilities, and drainage. ENGEEO should be retained to provide supplemental recommendations and modifications to geotechnical recommendations presented herein during the plan development and the review process, as necessary. This may include revised grading and foundation design recommendations and remedial grading plan preparation. Additional recommendations may be necessary during site grading, depending on the actual subsurface conditions exposed.

4.0 EARTHWORK RECOMMENDATIONS

All grading and development plans should be coordinated with the geotechnical engineer to modify the plans to mitigate any known soil and geologic hazards, as necessary. We recommend notification at least 48 hours prior to grading to coordinate scheduling with the grading contractor. Grading operations should be observed and tested by the Geotechnical Engineer's field representatives.

The relative compaction and optimum moisture content of soil, rock, and aggregate base referred to in this report are based on the most recent ASTM D1557 test method. Compacted soil is not acceptable if it is unstable. It should exhibit only minimal flexing or pumping, as determined by an ENGEEO representative. As used in this report, the term "moisture condition" refers to adjusting the moisture content of the soil by either drying if too wet or adding water if too dry. We define "structural areas" in Section 4 of this report as any area sensitive to settlement of compacted soil. These areas include, but are not limited to building pads, sidewalks, pavement areas, and retaining walls.

4.1 DEMOLITION AND STRIPPING

Site development should begin with the removal of the existing vegetation and undocumented fill. All excavations from stripping and removal of undocumented fill below design grades should be cleaned to a firm undisturbed soil surface determined by an ENGEEO representative. Backfill excavations extending below the planned finished site grades with suitable material compacted as engineered fill.

Organics should be stripped from the ground surface to a depth of at least 2 to 3 inches below the surface. We recommend strippings be removed from the site or, if considered suitable by the landscape architect and owner, used in landscape fill. It may also be feasible to mulch organics in place, depending on the amount and type of vegetation present at the time of grading as well as the proposed mulching method.

4.2 SITE PREPARATION

After the site has been properly cleared and stripped, and necessary mitigation excavations have been made, the original ground surface should be scarified to a depth of at least 12 inches, then the scarified material should be moisture conditioned and compacted in accordance with the engineered fill recommendations presented below.

4.3 DUNE SAND GRADING

On the northern and southern portions of the site, we encountered dune sands to a depth of approximately 24 feet to 30 feet below the ground surface in 1B-4 and 1CPT-5 respectively. These sands are susceptible to dynamic densification in the event of a design level earthquake as discussed in section 2.8.3.1. We expect that the elevated dune sand material will be in areas of cut when the site is graded. Once a grading plan is prepared, we will need to evaluate the potential settlement of the remaining dune sand to determine if the amount of potential settlement is acceptable. If the amount of potential settlement is not acceptable, additional subexcavation in these areas may be required. To reduce the risk of settlement, we recommend that the cut areas are prepared in accordance with Section 4.3 below.

4.4 OVER-OPTIMUM SOIL MOISTURE CONDITIONS

The contractor should anticipate encountering excessively over-optimum (wet) soil moisture conditions during winter or spring grading, or during or following periods of rain. Wet soil can make proper compaction difficult or impossible. Wet soil conditions can be mitigated by:

1. Frequent spreading and mixing during warm dry weather;
2. Mixing with drier materials;
3. Mixing with a lime, lime-flyash, or cement product; or
4. Stabilizing with aggregate, geotextile stabilization fabric, or both.

Options 3 and 4 should be evaluated and approved by ENGEO prior to implementation.

4.5 CUT/FILL TRANSITION OR CUT LOTS

Building pads constructed in cuts may encounter variably expansive subsurface conditions in the near-surface soil, and these pads may be subject to damaging differential soil movements. Building pads that transition from cut to fill within the building pad area also can experience differential soil movements. Cut/fill transition lots should have the cut portion of the lot overexcavated to provide a uniform thickness of fill within the building envelope . All building

pads should be underlain by a minimum of 24 inches of engineered fill to create relatively uniform subgrade conditions. Engineered fill should be placed in accordance with the Engineered Fill section below.

4.6 ACCEPTABLE FILL

With the exception of organic-laden soils, we anticipate engineered fill will consist of the onsite soil materials. Imported fill materials should have a plasticity index equal to or less than the onsite material and should not contain fragments larger than 6 inches. We recommend that ENGEO sample and test proposed imported fill materials at least 72 hours prior to delivery to the site.

The near surface of the site consists of moderately expansive clays and dune sand deposits. It is imperative to the performance of the proposed structures that the material in the upper two feet of the building pads consists of relatively uniform material. Selective grading may be necessary to achieve this goal.

4.7 ENGINEERED FILL

4.7.1 Grading in Structural Areas

The grading area should be scarified 12 inches in depth; moisture condition and recompact the exposed surface area in-place to provide adequate bonding with the initial fill lift. All fills should be placed in thin lifts, not exceeding 12 inches. We recommend avoiding lift thicknesses exceeding 12 inches or the compaction equipment penetration depth, whichever is less.

Generally apply the following compaction control requirements for on-site soils:

TABLE 4.7.1-1
Engineered Fill Specifications

| Soil Type | Required Moisture Content* | Required Relative Compaction |
|---------------|----------------------------|------------------------------|
| Expansive | 3 | 90% |
| Non-Expansive | 0 | 92% |

* Required Moisture Content: minimum percentage points above the optimum moisture content.

The engineered fill specifications are based on Test Procedure ASTM D-1557 (most recent).

4.7.2 Underground Utility Backfill

The contractor is responsible for conducting all trenching and shoring in accordance with CALOSHA requirements. Project consultants involved in utility design should specify pipe bedding materials. Where utility trenches are located beside foundation areas, careful backfill operations are recommended. Utility trenches should be constructed parallel to foundations entirely above a plane extending down from the lower edge of the footing at an angle of

45 degrees. Utility companies and Landscape Architects should be supplied with this information.

Utility trenches in paved areas should be constructed in accordance with City of Brentwood requirements. Owners should be notified if a conflict between City or other agency requirements and the recommendations contained in this report are observed to provide a resolution prior to submitting bids.

Where utility trenches cross underneath buildings or cross curb lines, we recommend that a plug be placed within the trench backfill to help prevent the normally granular bedding materials from acting as a conduit for water to enter beneath the building or street subgrade. The plug should be constructed using a sand cement slurry (minimum 28-day compressive strength of 500 psi) or relatively impermeable native soil for pipe bedding and backfill. We recommend that the plug extend for a distance of at least 3 feet in each direction from the point where the utility enters the building perimeter or crosses the curb line.

Jetting of backfill is not an acceptable means of compaction.

4.8 SLOPE GRADIENTS

Construct final slopes less than 5 feet in height at a gradient of 2:1 (horizontal:vertical) or flatter. For slopes greater than 5 feet in height, slope-specific recommendations can be made. The contractor is responsible to construct temporary construction slopes in accordance with CALOSHA requirements.

4.9 SITE DRAINAGE

The project Civil Engineer is responsible for designing surface drainage improvements. With regard to geotechnical engineering issues, we provide the following minimum recommendation for surface drainage.

1. Slope pavement areas a minimum of 1 percent towards drop inlets or other surface drainage devices.
2. Slope finished grades away from building exteriors at a minimum of 5 percent for a distance of at least 10 feet, or as constrained by lot layout.
3. Discharge roof down spouts into closed conduits and direct away from buildings to appropriate drainage devices.

4.10 LANDSCAPING CONSIDERATION

As the near-surface soils are moderately to highly expansive, we recommend greatly restricting the amount of surface water infiltration near structures, pavements, and flatwork. This may be accomplished by:

- Selecting landscaping that requires little or no watering, especially within 5 feet of structures or pavements.
- Using low precipitation sprinkler heads.
- Regulating the amount of water distributed to lawn or planter areas by installing timers on the sprinkler system.
- Providing surface grades to drain rainfall or landscape watering to appropriate collection systems and away from structures and pavements.
- Preventing water from draining toward or ponding near building foundations or pavements.
- Avoiding open planting areas within 3 feet of the building perimeter.

We recommend that these items be incorporated into the landscaping plans.

5.0 FOUNDATION RECOMMENDATIONS

5.1 SLOPE SETBACK

If improvements are planned adjacent to Marsh Creek, we recommend a minimum setback of 2:1(horizontal:vertical) from the toe of the adjacent creek bank.

5.2 POST-TENSIONED MAT FOUNDATIONS

The 2013 CBC requires post-tensioned (PT) mat foundation design criteria be determined in accordance with the Post Tensioning Institute's (PTI) "Design of Post-Tensioned Slabs-on-Ground, Third Edition" (2004). The following post-tensioned mat soil design parameters were developed according to methods recommended in PTI's "Design of Post-Tensioned Slabs-on-Ground, Third Edition" (2004), in accordance with Addendum 3, "Standard Requirements for Analysis of Shallow Concrete Foundations on Expansive Soils" (2007):

TABLE 5.2-1
Post-Tensioned Mat Foundation Design Criteria

| Condition | Center Lift | Edge Lift |
|--|-------------|-----------|
| Edge Moisture Variation Distance, e_m (feet) | 9.0 | 4.8 |
| Differential Soil Movement, y_m (inches) | 0.1 | 0.8 |

PT mats should be designed for an average allowable bearing pressure of 1,000 pounds per square foot (psf) for dead-plus-live loads with maximum localized bearing pressures of 1,500 psf at column or wall loads. Allowable bearing pressures can be increased by one-third for all loads, including wind or seismic. We recommend a minimum mat thickness of 10 inches with a 2-inch thickened edge. As previously discussed, approximately 1 ½ inches of total settlement and ¾ of an inch of differential settlement could occur during a design level seismic event and should be considered in the design of the proposed structures.

We recommend that PT mats be underlain with a moisture reduction system as recommended below. In addition, moisture condition the pad subgrade to moisture content at least 3 percentage points above optimum prior to foundation construction. The subgrade should not be allowed to dry prior to concrete placement.

5.3 SLAB MOISTURE VAPOR REDUCTION

When buildings are constructed with post-tensioned mats, water vapor from beneath the mat will migrate through the concrete and into the building. This water vapor can be reduced but not stopped. Vapor transmission can negatively affect floor coverings and lead to increased moisture within a building. When water vapor migrating through the mat would be undesirable, we recommend the following to reduce, but not stop, water vapor transmission upward through the mat foundation.

1. Install a vapor retarder membrane directly beneath the slab. Seal the vapor retarder at all seams and pipe penetrations. Vapor retarders shall conform to Class A in the current ASTM E 1745 “Standard Specification for Plastic Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs”.
2. Concrete shall have a concrete water-cement ratio of no more than 0.50.
3. Provide inspection and testing during concrete placement to check that the proper concrete and water cement ratio are used.

The structural engineer should be consulted as to the use of a layer of clean sand (less than 5 percent passing the U.S. Standard No. 200 Sieve) placed on top of the vapor retarder membrane to assist in concrete curing.

5.4 FOUNDATION LATERAL RESISTANCE

Lateral loads may be resisted by friction along the base of the mat using an allowable coefficient of friction of 0.30.

6.0 SECONDARY SLABS-ON-GRADE

This section provides guidelines for secondary slabs such as walkways, driveways, and steps. Construct secondary slabs-on-grade structurally independent of the foundation system. This

allows slab movement to occur with a reduced potential for foundation distress. Where slabs-on-grade construction is anticipated, care must be exercised in attaining a near-saturation condition of the subgrade soil before concrete placement.

The structural engineer should design slab reinforcement. The site soil has moderate expansion potential; therefore, cracking of conventional slabs should be expected in the future. As a minimum requirement, reinforce slabs-on-grade to reduce cracking. Provide frequent control joints to control the cracking. In our experience, welded wire mesh is not sufficient to control slab cracking. Reinforce slabs-on-grade with No. 4 bars spaced 18 inches on center each way, as a minimum.

Provide a minimum section of 4 inches of concrete over 4 inches of aggregate base. Compact the aggregate base to at least 90 percent relative compaction (ASTM D1557). Thicken flatwork edges to at least 10 inches to help control moisture variations in the subgrade and place rebar within the middle third of the slab to help control the width and offset of cracks. Construct control and construction joints in accordance with current Portland Cement Association Guidelines.

7.0 RETAINING AND SOUND WALLS

7.1 STRUCTURAL WALLS AND SOUNDS WALLS

Retaining walls not restrained at the top should be designed for active lateral loading conditions. The recommended lateral equivalent fluid pressures for unrestrained retaining wall design are presented below.

TABLE 7.1-1
Lateral Earth Pressures for Unrestrained Wall Design
(Active Loading Condition)

| Backfill Slope Condition | Equivalent Fluid Pressures (pcf) |
|--------------------------|----------------------------------|
| Level | 50 |
| 4:1 | 55 |
| 3:1 | 60 |
| 2:1 | 70 |

7.2 RETAINING WALL DRAINAGE

Construct either graded rock drains or geosynthetic drainage composites behind the retaining walls to reduce hydrostatic forces. For rock drain construction, we recommend two types of rock drain alternatives:

1. A minimum 12-inch-thick layer of Class 2 Permeable Filter Material (Caltrans Specification 68-1.025) placed directly behind the wall, or

2. A minimum 12-inch-thick layer of washed, crushed rock with 100 percent passing the ¾-inch sieve and less than 5 percent passing the No. 4 sieve. Envelop rock in a minimum 6-ounce, nonwoven geotextile filter fabric.

For both types of rock drains:

1. Place the rock drain directly behind the walls of the structure.
2. Extend rock drains from the wall base to within 12 inches of the top of the wall. The upper 12 inches of backfill should consist of compacted clayey soils.
3. Place a minimum of 4-inch-diameter perforated pipe at the base of the wall, inside the rock drain and fabric, with perforations placed down.
4. Place pipe at a gradient at least 1 percent to direct water away from the wall by gravity to a drainage facility.

ENGEO should review and approve geosynthetic composite drainage systems prior to use.

7.3 BACKFILL

Backfill behind retaining walls should be placed and compacted in accordance with Section 4.7. Use light compaction equipment within 5 feet of the wall face. If heavy compaction equipment is used, the walls should be temporarily braced to avoid excessive wall movement.

7.4 FOUNDATIONS

Proposed retaining walls can be supported on continuous spread footings or pier foundations. Sound walls should be supported on piers. Appropriate safety factors against overturning and sliding should be incorporated into the design calculations. The Geotechnical Engineer should be consulted on design values where surcharge loads, such as from automobiles, are expected or where a downhill slope exists below a proposed wall.

7.4.1 Shallow Footings

The structural engineer should design the footing layout and steel reinforcement using the criteria presented below.

| | |
|--|-----------|
| Minimum Width..... | 15 inches |
| Minimum Depth ⁽¹⁾ | 18 inches |
| Allowable Bearing Capacity (dead-plus-live loads) ⁽²⁾ | 2,000 psf |
| Lateral Passive Resistance ⁽³⁾ | 250 pcf |
| Base Friction Coefficient..... | 0.35 |

- (1) Depth below lowest adjacent finish grade.
- (2) May be increased by ½ for total loads including wind and seismic.
- (3) Ignore upper 12 inches unless confined by pavement or slab.

7.4.2 Drilled Piers Foundation

Retaining and sound walls can be supported on a pier-and-grade-beam foundation system based on the following design and construction criteria:

| | |
|----------------------------------|---|
| Pier diameter: | Minimum 12 inches. |
| Pier depth: | Minimum 8 feet. |
| Maximum allowable skin friction: | 500 pounds per square foot (psf). This value may be increased by one-third when considering seismic or wind loads. For pier load capacity computations, exclude the upper 3 feet. |
| Minimum pier spacing: | Three pier diameters, center-to-center. |

An equivalent fluid weight of 250 pounds per cubic foot acting on two times the pier diameter may be used to evaluate passive resistance. The passive pressure may be increased by one-third for transient loads such as wind or seismic. The passive earth pressure should start at a depth of 12 inches or where there is 10 feet horizontal distance to daylight in sloping areas.

In addition, the moderately expansive soils may exert upward pressure on the base of grade beams or precast panels. This force can be neglected if a 2-inch void form of degradable material is utilized at the base of the beams/panels. Otherwise, the beams/panels should be designed for an uplift pressure of 3,000 psf if the elements are not provided with a void. This value can be reduced by 1,000 psf for each foot of embedment. These design guidelines assume the subgrade soils are well over optimum moisture at the time of concrete or panel placement. Under no circumstance should grade beams be cast upon dry, desiccated soil. Similarly, precast panels should not be set upon dry, desiccated soil.

The pier reinforcement should be designed by the Structural Engineer, but as a minimum, at least two No. 4 rebars should extend the full length of each pier. Where applicable, the pier reinforcement should be tied to the grade beam as recommended by the Structural Engineer.

8.0 PAVEMENT DESIGN

Because surface soils vary across the site, we judged an R-value of 5 to be applicable for preliminary design. Using estimated traffic indices for various pavement loading requirements, we developed the following recommended preliminary pavement sections using Procedure 608 of the Caltrans Highway Design Manual (including the asphalt factor of safety).

TABLE 8.0-1
Recommended Asphalt Concrete Pavement Sections

| Traffic Index | Section | |
|---------------|---------------------------|---------------------------------|
| | Asphalt Concrete (inches) | Class 2 Aggregate Base (inches) |
| 5 | 4* | 8* |

| Traffic Index | Section | |
|---------------|---------------------------|---------------------------------|
| | Asphalt Concrete (inches) | Class 2 Aggregate Base (inches) |
| 6 | 4* | 11 |
| 7 | 4 | 14 |

Note: * minimum pavement section component thickness as required by City of Brentwood.

The City of Brentwood requires a geotextile fabric over the subgrade soil prior to aggregate base placement where the subgrade soil has an R-value of 10 or less.

Use the above design sections for estimating purposes only. The actual design sections should be based on R-value tests performed on subgrade material samples recovered at the time of grading. Pavement materials and construction should comply with the specifications and requirements of the Standard Specifications by the State of California Division of Highways, City of Brentwood and the following minimum requirements.

- Scarify all pavement subgrades to a minimum depth of 12 inches below finished subgrade elevation; moisture condition to 3 percentage points above optimum and compact to at least 90 percent relative compaction and/or in accordance with City requirements. Where non-expansive or non-cohesive subgrades are present, increase the minimum relative compaction to 95 percent.
- Provide stable subgrade soils. Avoid pumping conditions at the time of aggregate base rock material placement and compaction.
- Make adequate provisions to avoid subgrade soil and aggregate base rock material saturation.
- Aggregate baserock materials should meet current Caltrans specifications for Class 2 aggregate base rock. Compact to at least 95 percent of maximum dry density and moisture conditioned to at least optimum moisture as determined by ASTM D-1557.
- Asphalt paving materials should meet current Caltrans specifications for asphalt concrete.
- Extend all concrete curbs separating pavement and irrigated landscaped areas into the subgrade and below the bottom of adjacent aggregate base rock materials.

9.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report presents geotechnical recommendations for design of the improvements discussed in Section 1.2 for the subject project. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and

recommendations contained in this report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

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

This report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data is representative of the actual subsurface conditions across the site. Considering possible underground variability of soil, rock, stockpiled material, and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, notify ENGEO immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, then notify the proper regulatory officials immediately.

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

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

We determined the lines designating the interface between layers on the exploration logs using visual observations. The transition between the materials may be abrupt or gradual. The exploration logs contain information concerning samples recovered, indications of the presence of various materials such as clay, sand, silt, rock, existing fill, etc., and observations of groundwater encountered. The field logs also contain our interpretation of the subsurface conditions between sample locations. Therefore, the logs contain both factual and interpretative information. Our recommendations are based on the contents of the final logs, which represent our interpretation of the field logs.

SELECTED REFERENCES

1. American Society of Civil Engineers. *Minimum Design Loads for Buildings and other Structures ASCE 7-10*. Reston: American Society of Civil Engineers. 2011.
2. California Building Standards Commission, *2010 California Building Code*, Volumes 1 and 2, Sacramento, California.
3. California Building Standards Commission, *2013 California Building Code*, <http://geohazards.usgs.gov/designmaps/us/application.php>.
4. California Department of Transportation, 2008, Highway Design Manual.
5. California Geological Survey, by Bryant, W.A. and Hart, E.W; Fault-Rupture Hazard Zones in California; Special Publication 42, Interim Revision 2007.
6. Dibblee, T.W.; 2006, Geologic Map of the Antioch South and Brentwood Quadrangles, Contra Costa County, California; Dibblee Geology Center Map #DF-193; 1:24,000.
7. Petersen, Mark D., et al., 2008, Documentation for the 2008 Update of the United States National Seismic Hazard Maps: U.S. Geological Survey Open-File Report 2008-1128, 61 p.
8. SEAOC, 1996, Recommended Lateral Force Requirements and Tentative Commentary.
9. U.S. Geological Survey, Seismic Design Map, <http://earthquake.usgs.gov/designmaps/us/application.php>.
10. U.S. Geological Survey and California Geological Survey, 2006, Quaternary fault and fold database for the United States, accessed March 12, 2014, from USGS web site: <http://earthquakes.usgs.gov/regional/qfaults/>.
11. Tokimatsu & Seed (1987). Evaluation of Settlements in Sands Due to Earthquake Shaking. *Journal of Geotechnical Engineering*. August 1987.
12. Robertson, P.K. (2009). "Performance based earthquake design using the CPT." Gregg Drilling & Testing Inc.
13. Youd, T.L., et al. (2001). Liquefaction Resistance of Soils; Summary report from the 1996 NCEER and 1998 NCEER/NSF workshops on evaluation of liquefaction resistance of soils. *Journal of Geotechnical and Geoenvironmental Engineering*. April 2001. p. 297-313.

FIGURES

Figure 1 - Vicinity Map

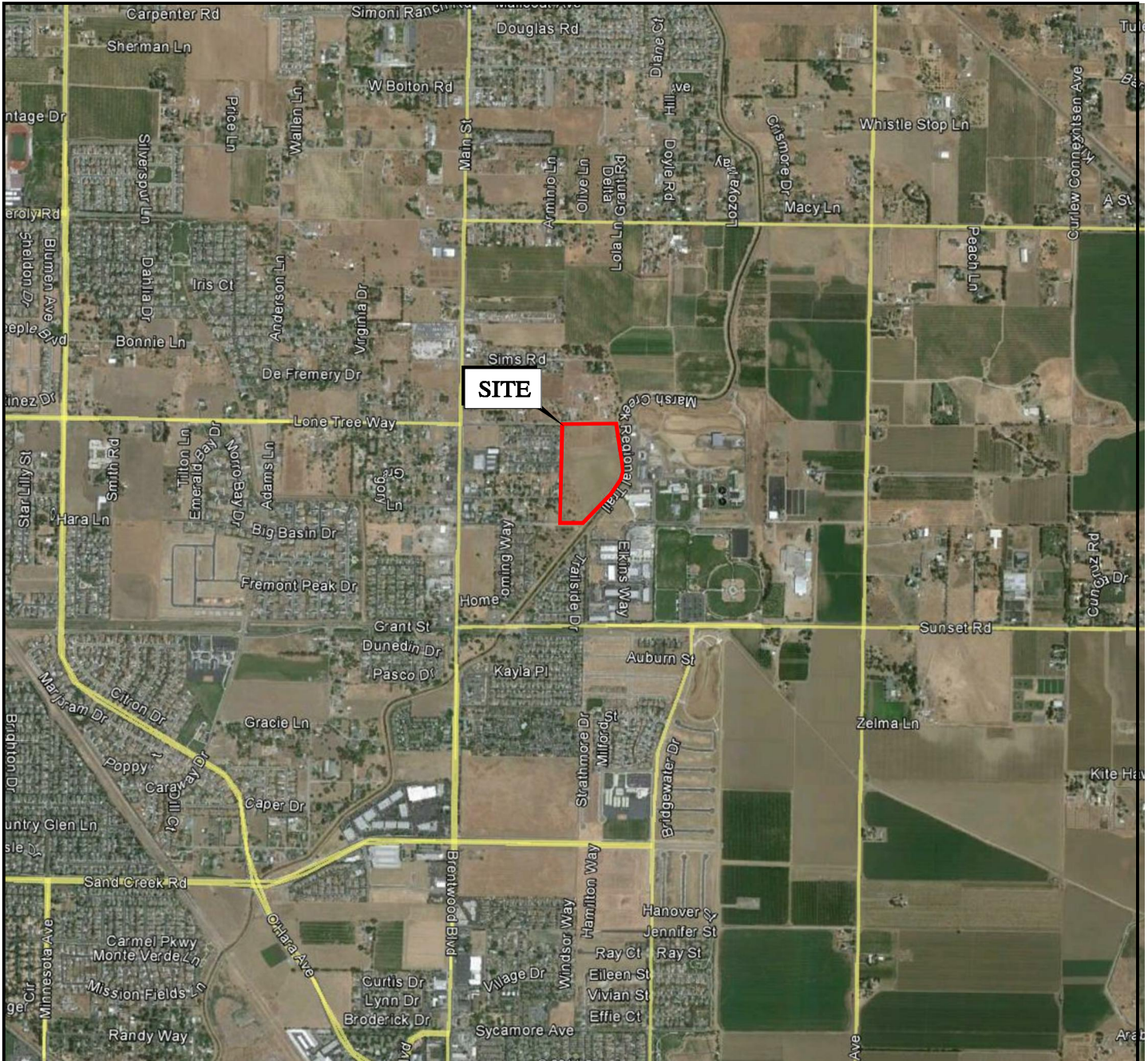
Figure 2 - Site Plan

Figure 3 - Regional Geologic Map

Figure 4 - Regional Faulting and Seismicity



COPYRIGHT © 2015 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



BASE MAP SOURCE: GOOGLE EARTH PRO



VICINITY MAP
HANSON RANCH
BRENTWOOD, CALIFORNIA

PROJECT NO.: 11788.000.000

FIGURE NO.

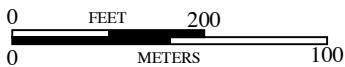
SCALE: AS SHOWN

DRAWN BY: LL

CHECKED BY: JB

1

COPYRIGHT © 2015 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- 1-B5** BORING
- 1-CPT5** CONE PENETRATION TEST

BASE MAP SOURCE: GOOGLE EARTH PRO



SITE PLAN
HANSON RANCH
BRENTWOOD, CALIFORNIA

PROJECT NO.: 11788.000.000

SCALE: AS SHOWN

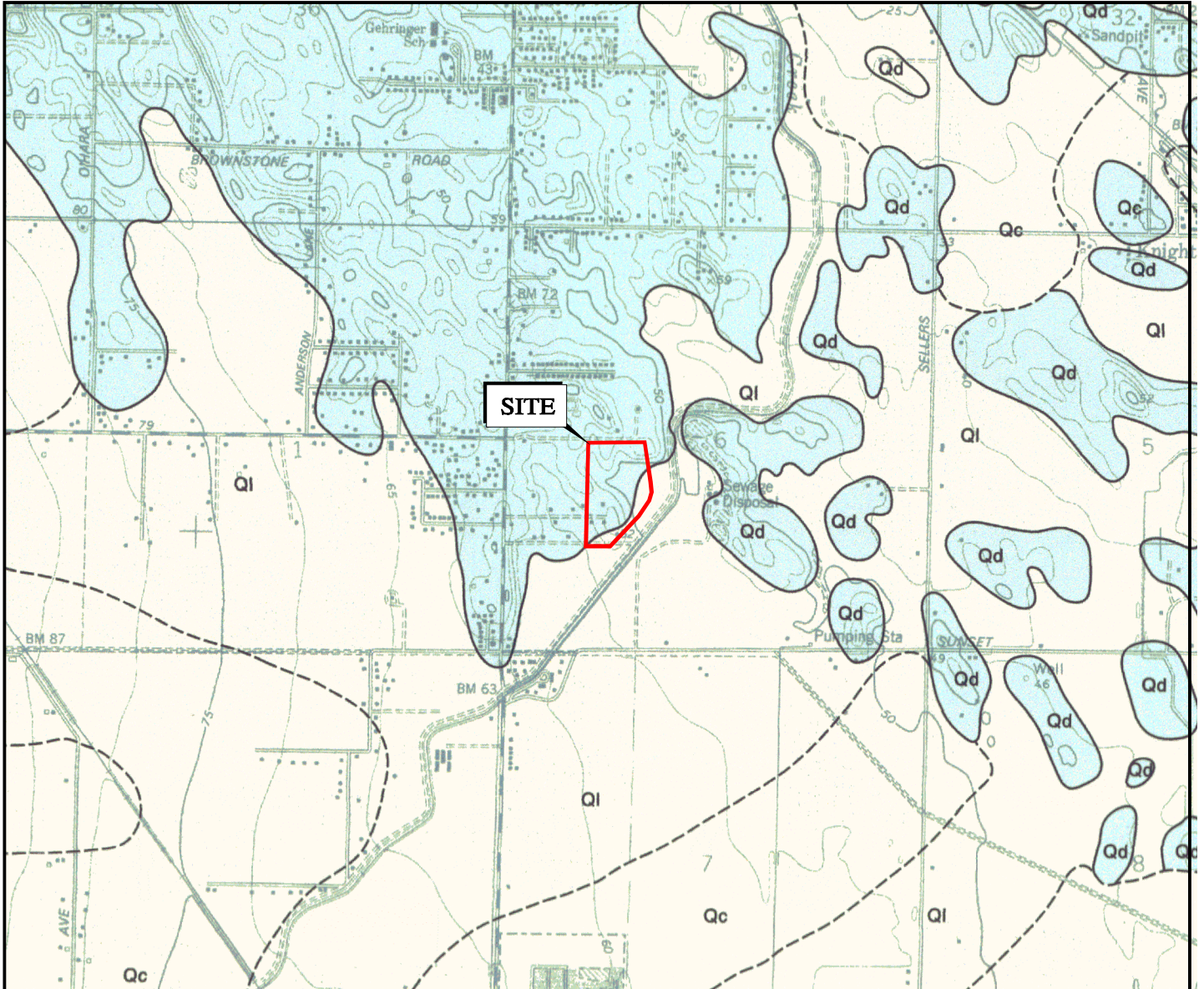
DRAWN BY: LL

CHECKED BY: JB

FIGURE NO.

2

COPYRIGHT © 2015 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



EXPLANATION

- GEOLOGIC CONTACT-DASHED WHERE GRADATIONAL OR APPROXIMATELY LOCATED
- Qd SAND DUNES
- Ql ALLUVIAL LOAM OF VALLEY AREAS
- Qc ALLUVIAL CLAY OF VALLEY AREAS



BASE MAP SOURCE: DIBBLEE, 2006



REGIONAL GEOLOGIC MAP
HANSON RANCH
BRENTWOOD, CALIFORNIA

PROJECT NO.: 11788.000.000

SCALE: AS SHOWN

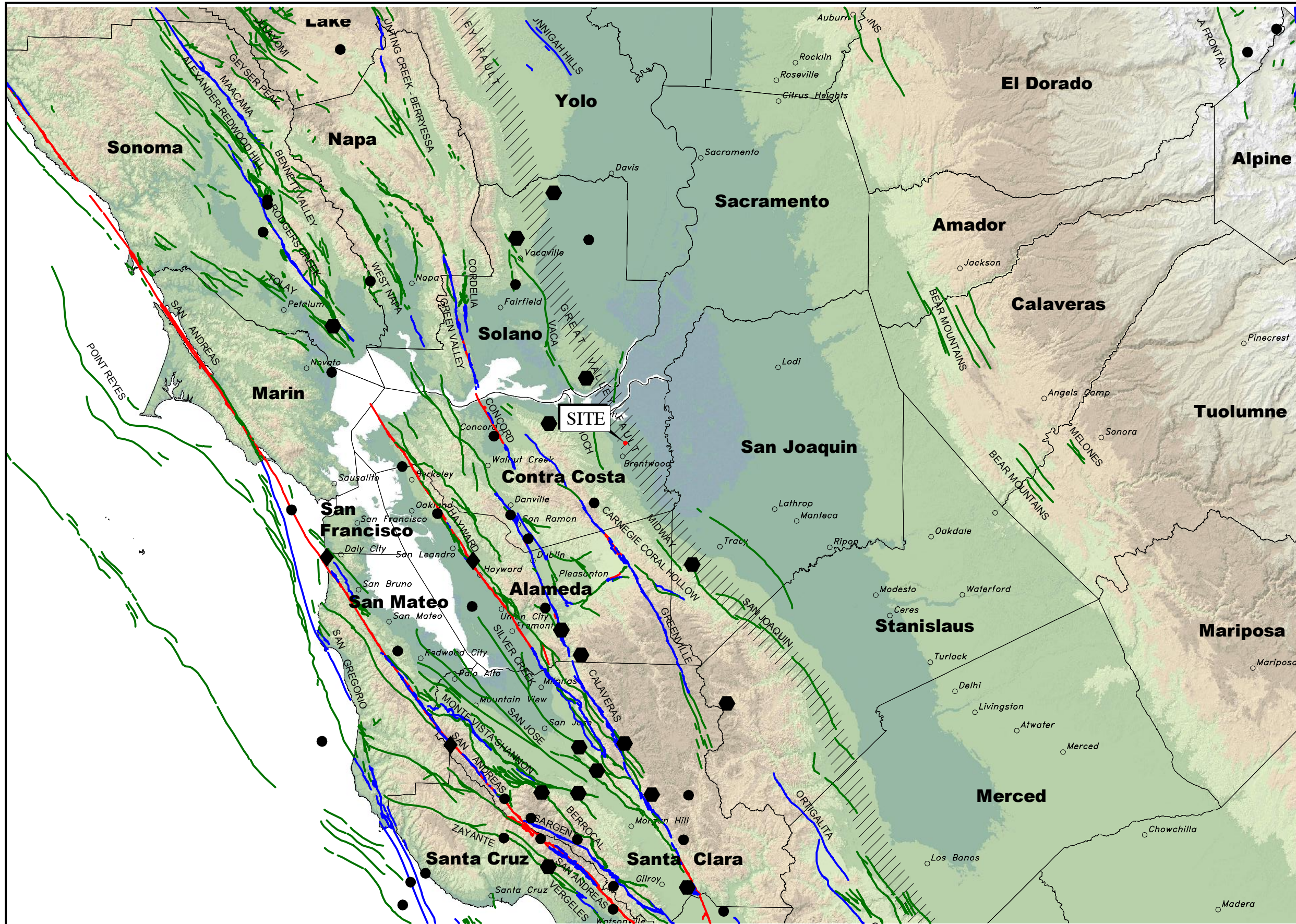
DRAWN BY: LL

CHECKED BY: JB

FIGURE NO.

3

COPYRIGHT © 2015 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.



EXPLANATION

| | |
|-----------|----------------------------------|
| ◆ | MAGNITUDE 7+ |
| ⬠ | MAGNITUDE 6-7 |
| ● | MAGNITUDE 5-6 |
| — (Red) | HISTORIC FAULT |
| — (Blue) | HOLOCENE FAULT |
| — (Green) | QUATERNARY FAULT |
| /// | HISTORIC BLIND THRUST FAULT ZONE |

BASE MAP SOURCE:
 COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATASET (NED) AT 30 METER RESOLUTION
 U.S.G.S. QUATERNARY FAULT DATABASE, NOVEMBER, 2010
 U.S.G.S. HISTORIC EARTHQUAKE DATABASE (1800-2000)

| | | | |
|--|--|--|---|
| | REGIONAL FAULTING AND SEISMICITY HANSON RANCH BRENTWOOD, CALIFORNIA | | PROJECT NO.: 11788.000.000 FIGURE NO 4 |
| | SCALE: AS SHOWN DRAWN BY: LL CHECKED BY: JB | | |

**A
P
P
E
N
D
I
X

A**

APPENDIX A

Cone Penetration Test Data



LIQUEFACTION ANALYSIS REPORT

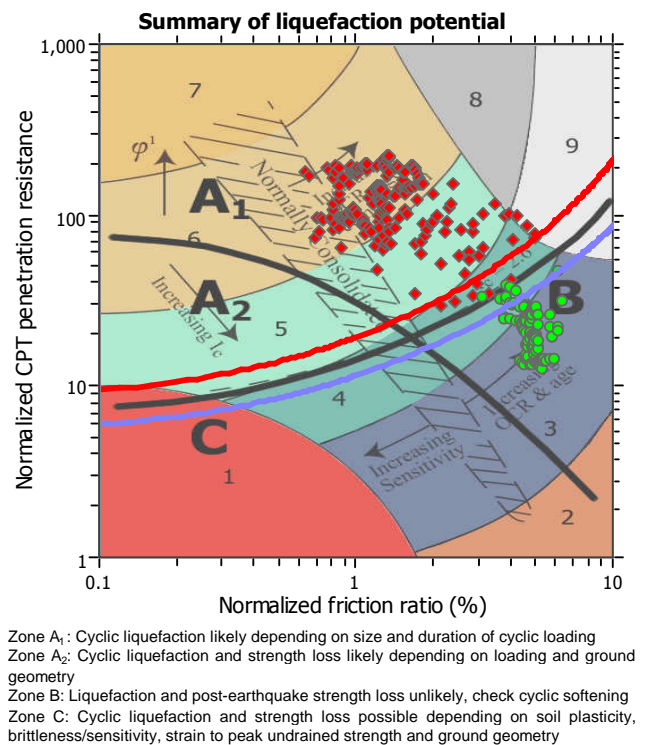
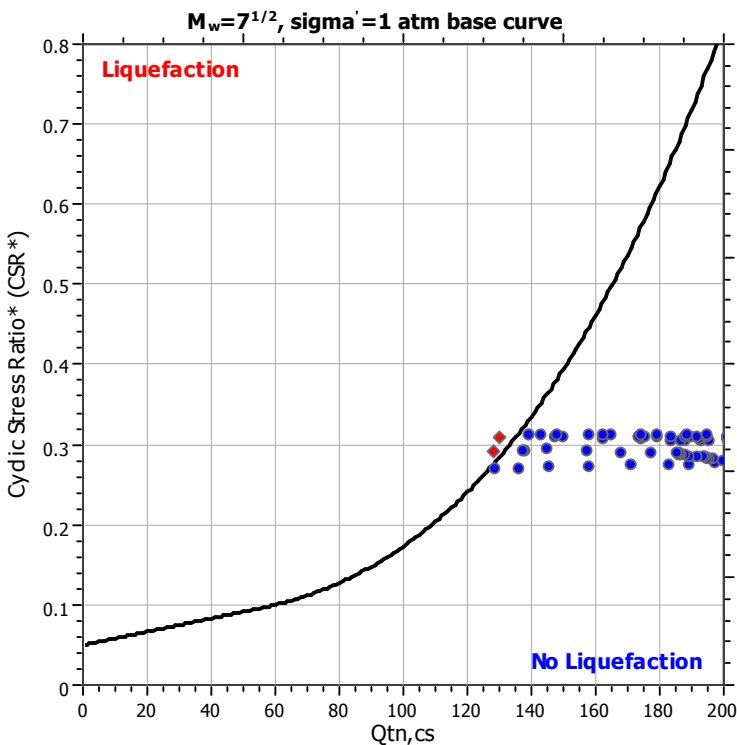
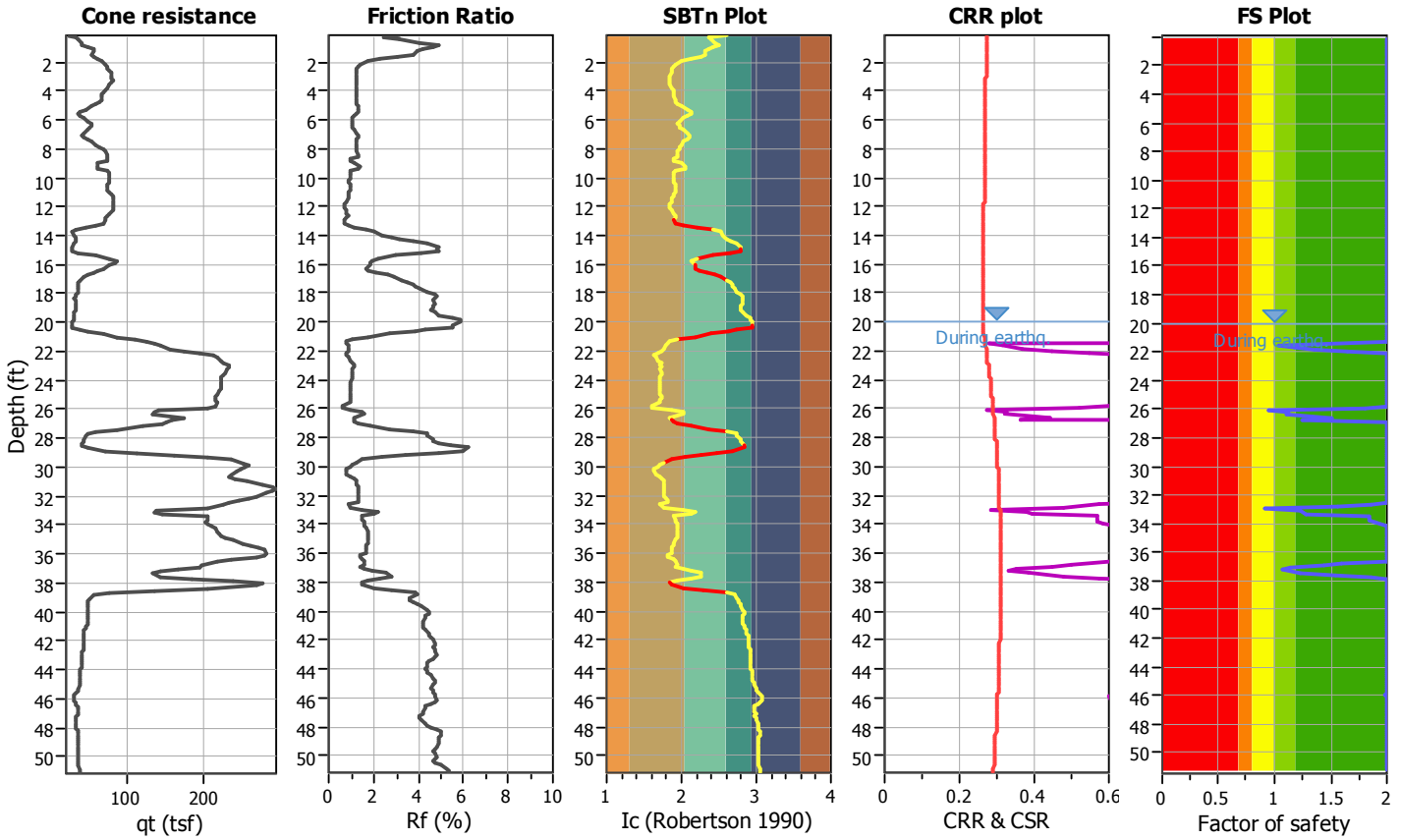
Project title : Hanson Ranch

Location : Brentwood, California

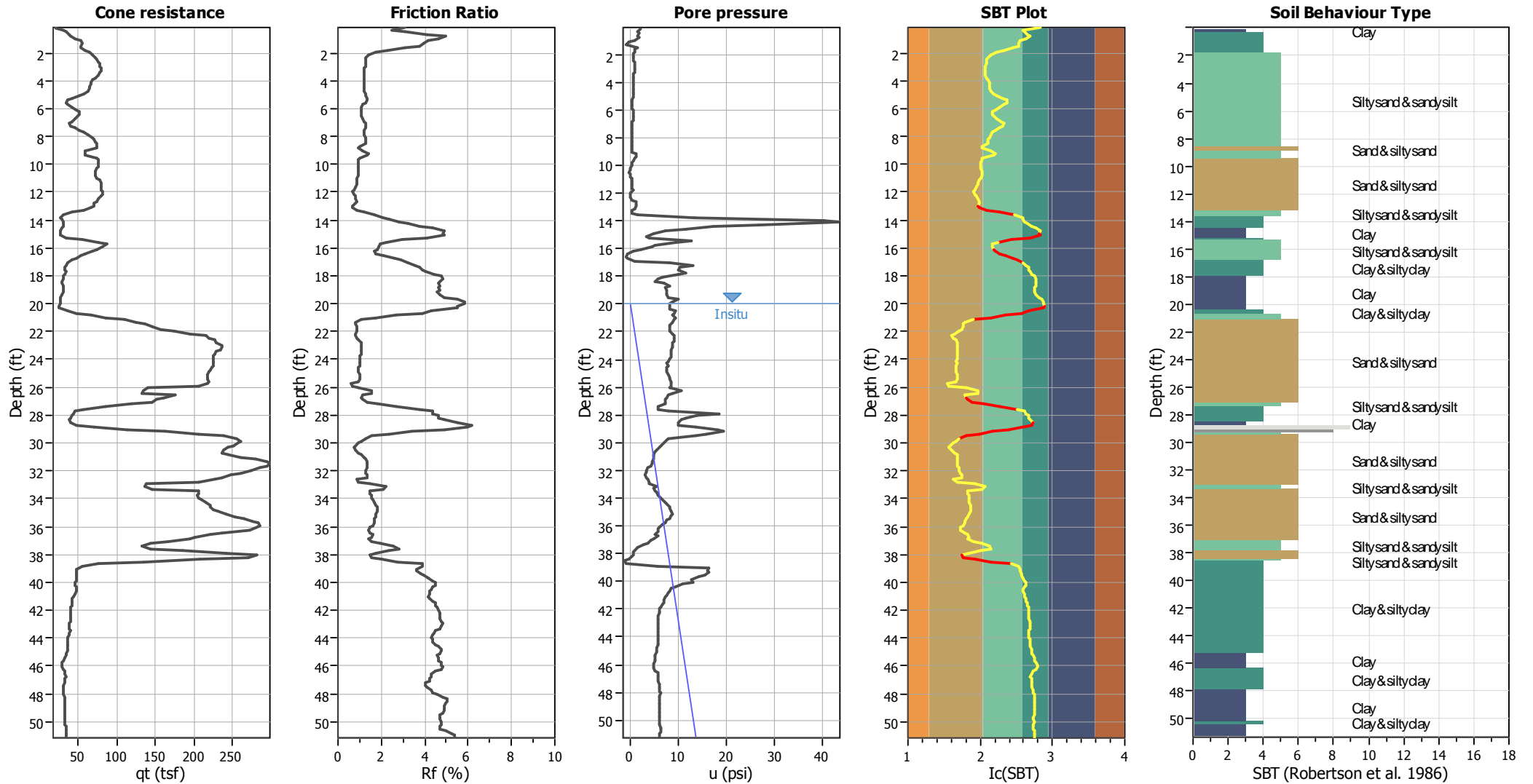
CPT file : 1-CPT2

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | Robertson (2009) | G.W.T. (in-situ): | 20.00 ft | Use fill: | No | Clay like behavior | |
| Fines correction method: | Robertson (2009) | G.W.T. (earthq.): | 20.00 ft | Fill height: | N/A | applied: | All soils |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 7.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | Limit depth: | N/A |
| Peak ground acceleration: | 0.50 | Unit weight calculation: | Based on SBT | K_0 applied: | No | MSF method: | Method based |



CPT basic interpretation plots



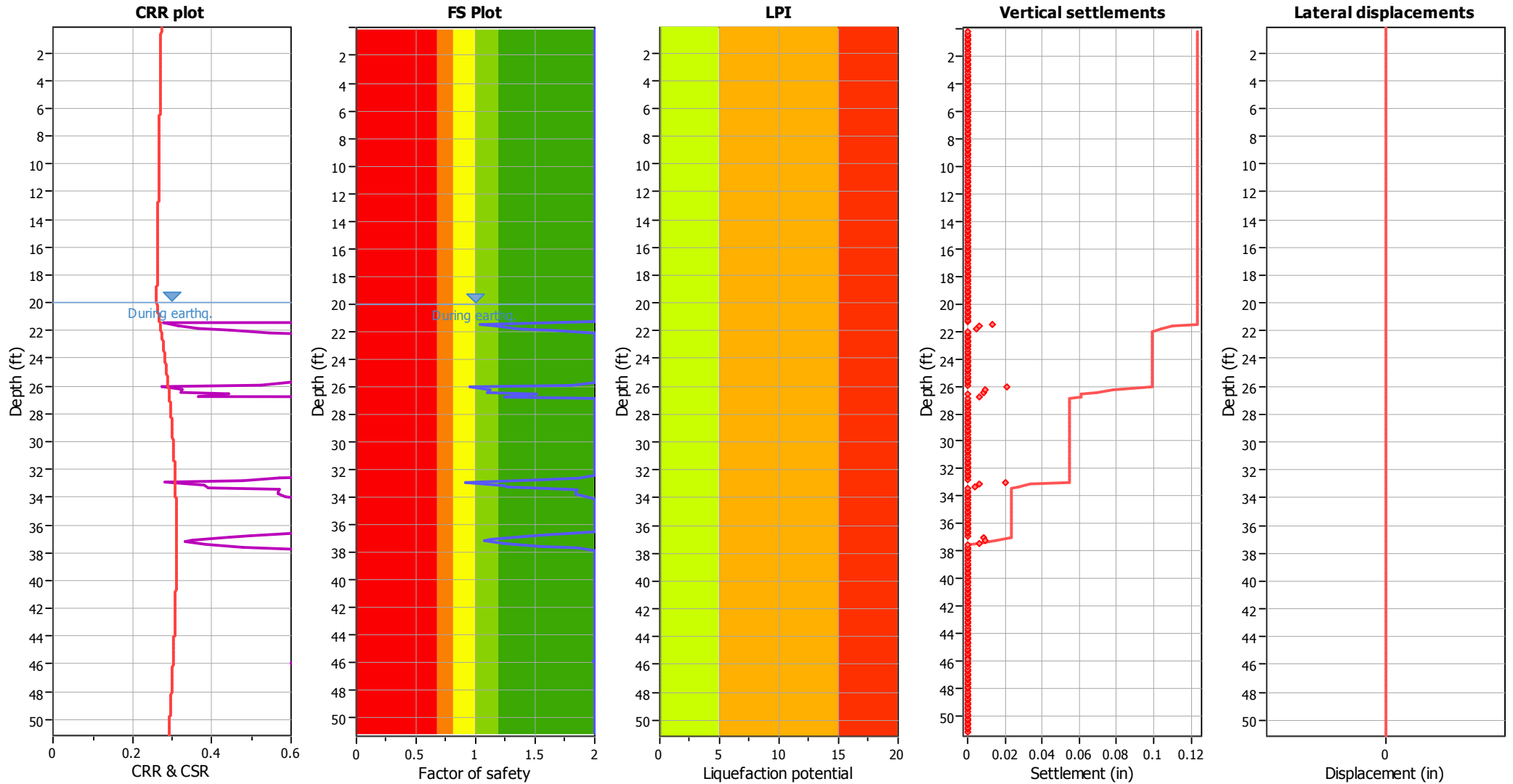
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|-----------|
| Analysis method: | Robertson (2009) | Depth to water table (erthq.): | 20.00 ft | Fill weight: | N/A |
| Fines correction method: | Robertson (2009) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K _s applied: | No |
| Earthquake magnitude M _w : | 7.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | All soils |
| Peak ground acceleration: | 0.50 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 20.00 ft | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

Liquefaction analysis overall plots



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|-----------|
| Analysis method: | Robertson (2009) | Depth to water table (earthq.): | 20.00 ft | Fill weight: | N/A |
| Fines correction method: | Robertson (2009) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_s applied: | No |
| Earthquake magnitude M_w : | 7.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | All soils |
| Peak ground acceleration: | 0.50 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 20.00 ft | Fill height: | N/A | Limit depth: | N/A |

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

LIQUEFACTION ANALYSIS REPORT

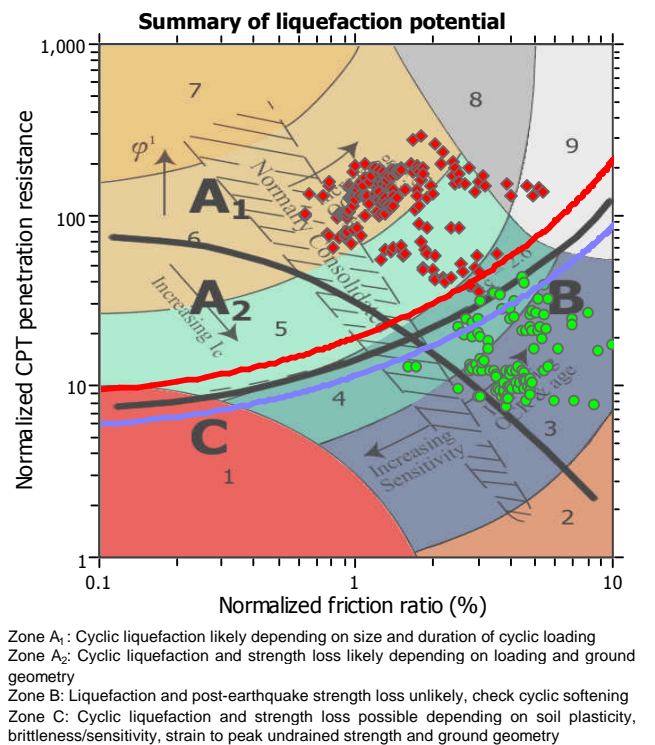
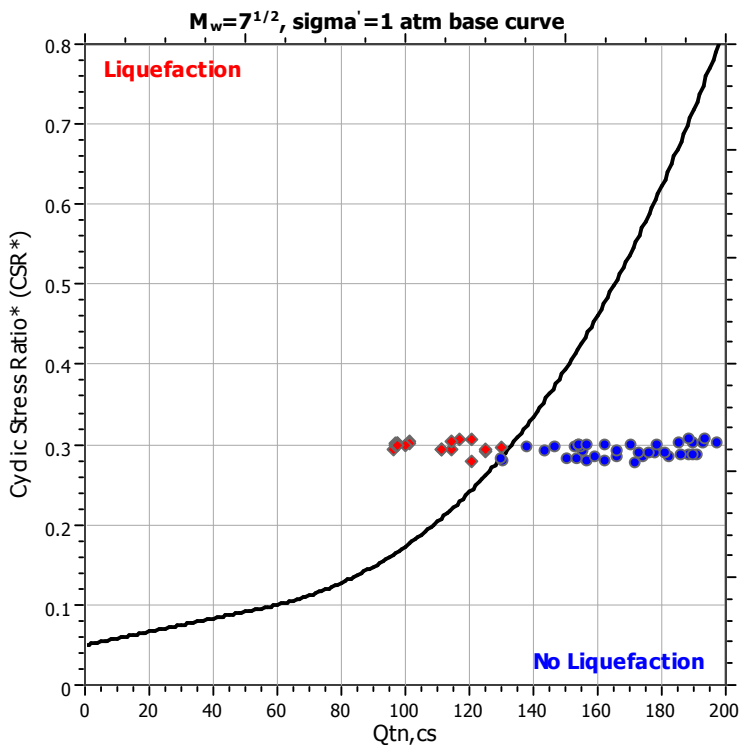
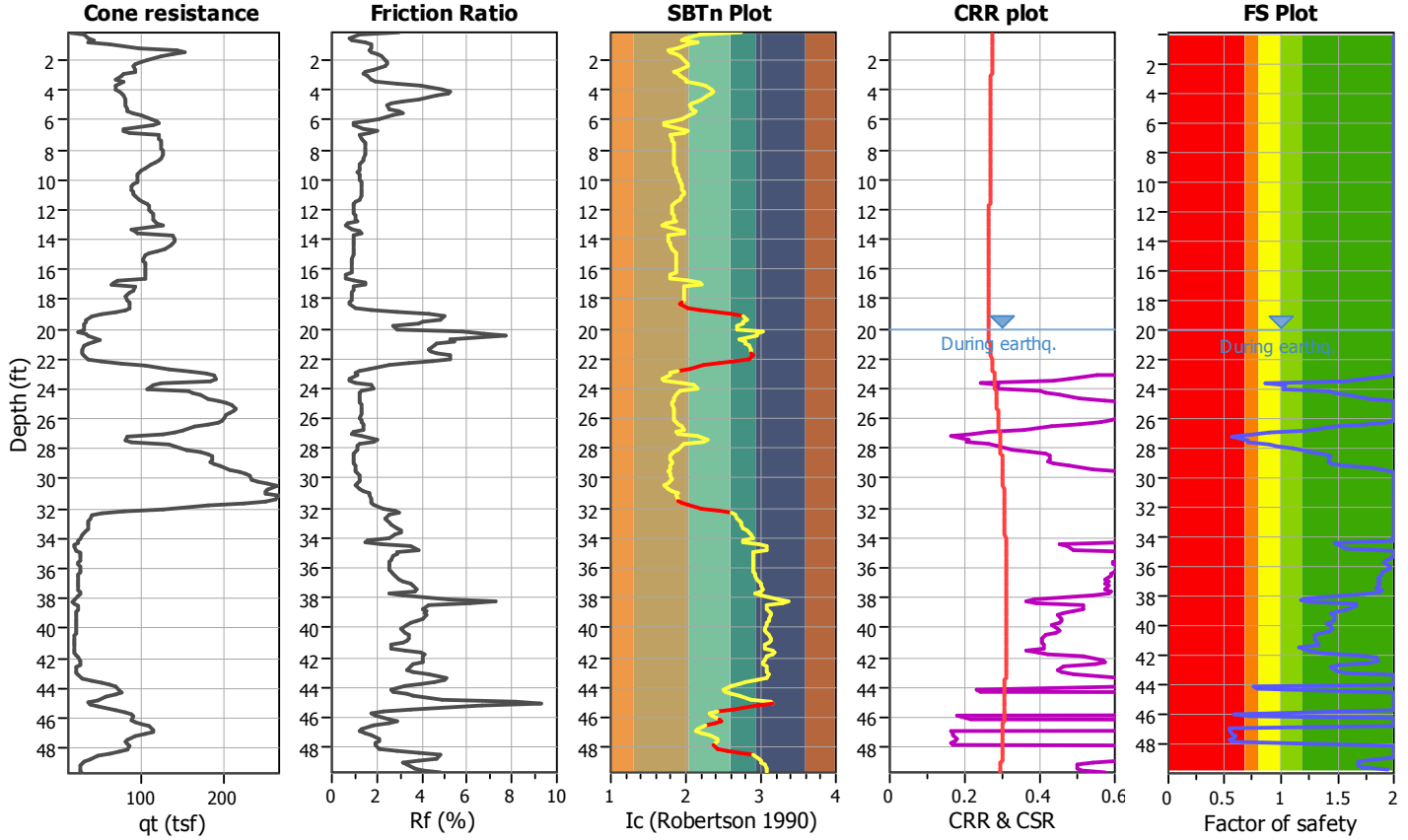
Project title : Hanson Ranch

Location : Brentwood, California

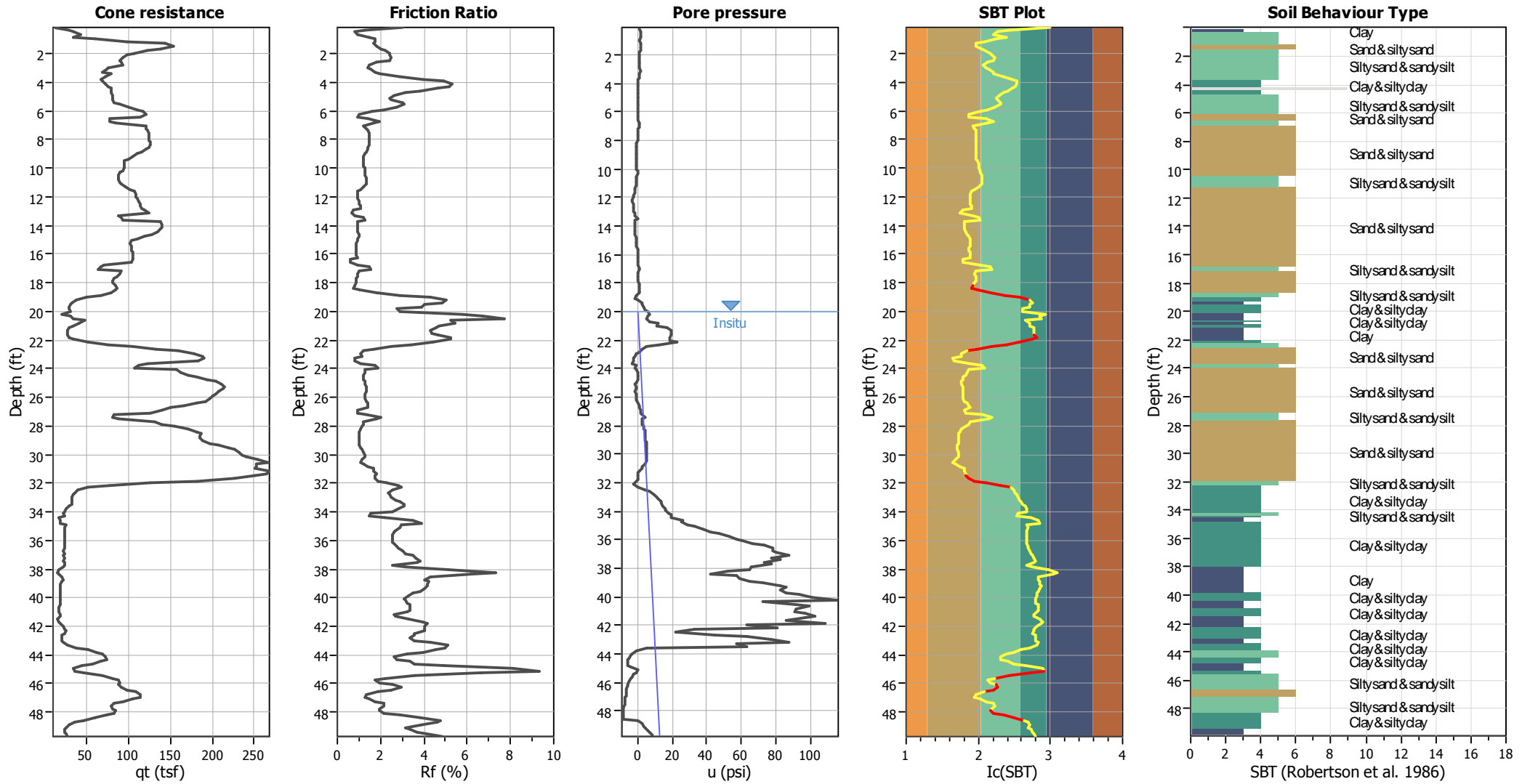
CPT file : 1-CPT4

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|-----------------------------|--------------|
| Analysis method: | Robertson (2009) | G.W.T. (in-situ): | 20.00 ft | Use fill: | No | Clay like behavior applied: | All soils |
| Fines correction method: | Robertson (2009) | G.W.T. (earthq.): | 20.00 ft | Fill height: | N/A | Limit depth applied: | No |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth: | N/A |
| Earthquake magnitude M_w : | 7.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | MSF method: | Method based |
| Peak ground acceleration: | 0.50 | Unit weight calculation: | Based on SBT | K_0 applied: | No | | |



CPT basic interpretation plots



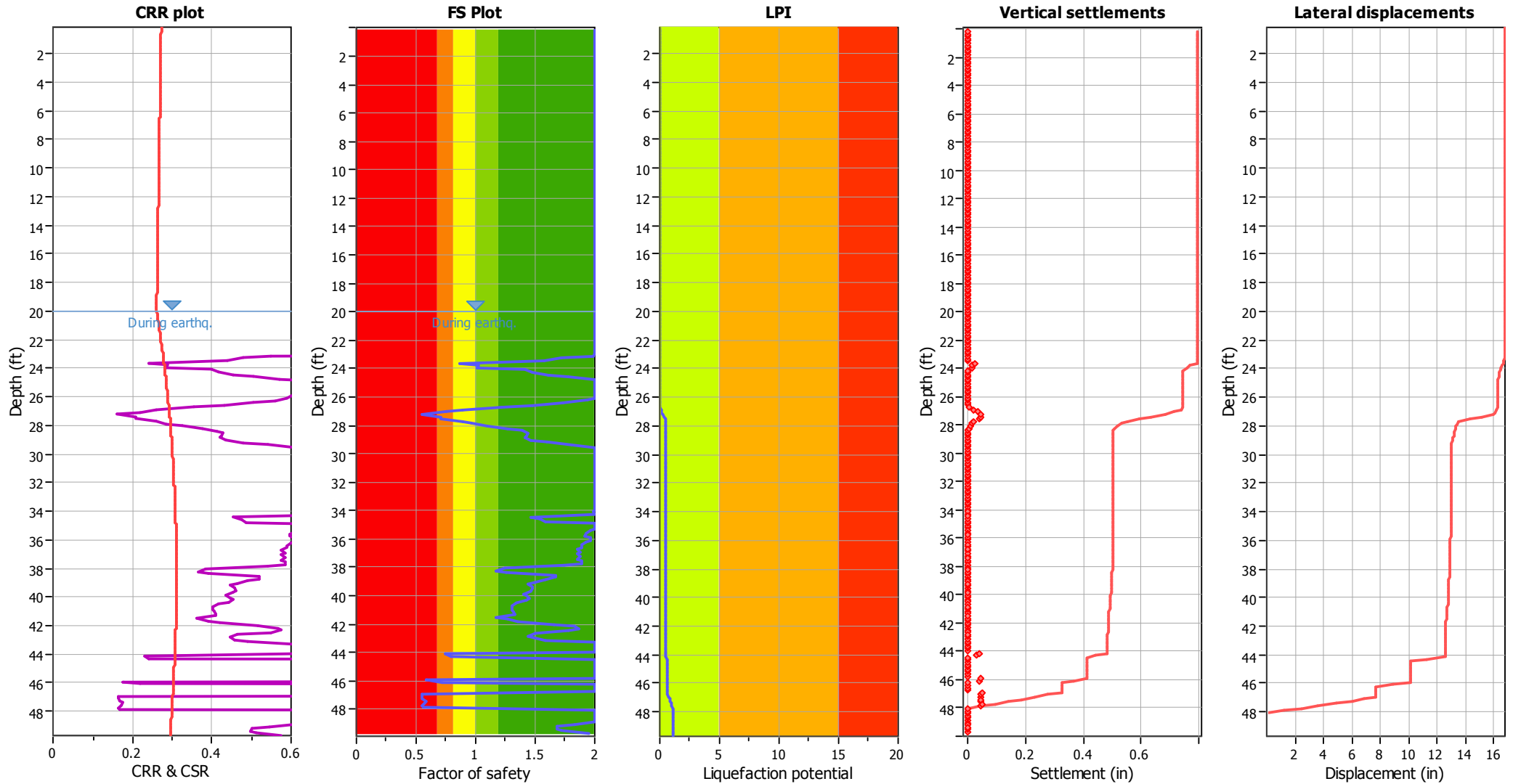
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|-----------|
| Analysis method: | Robertson (2009) | Depth to water table (erthq.): | 20.00 ft | Fill weight: | N/A |
| Fines correction method: | Robertson (2009) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K _s applied: | No |
| Earthquake magnitude M _w : | 7.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | All soils |
| Peak ground acceleration: | 0.50 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 20.00 ft | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

Liquefaction analysis overall plots



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|-----------|
| Analysis method: | Robertson (2009) | Depth to water table (earthq.): | 20.00 ft | Fill weight: | N/A |
| Fines correction method: | Robertson (2009) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_s applied: | No |
| Earthquake magnitude M_w : | 7.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | All soils |
| Peak ground acceleration: | 0.50 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 20.00 ft | Fill height: | N/A | Limit depth: | N/A |

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

LIQUEFACTION ANALYSIS REPORT

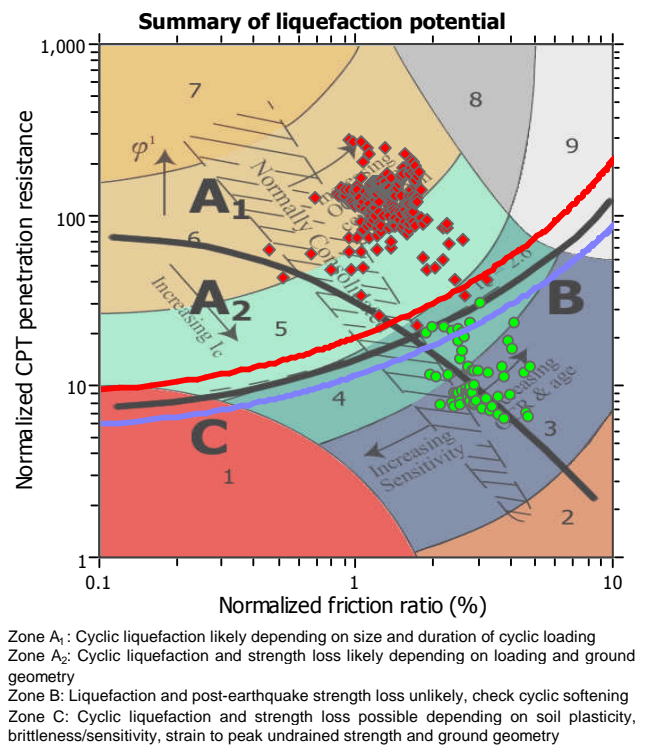
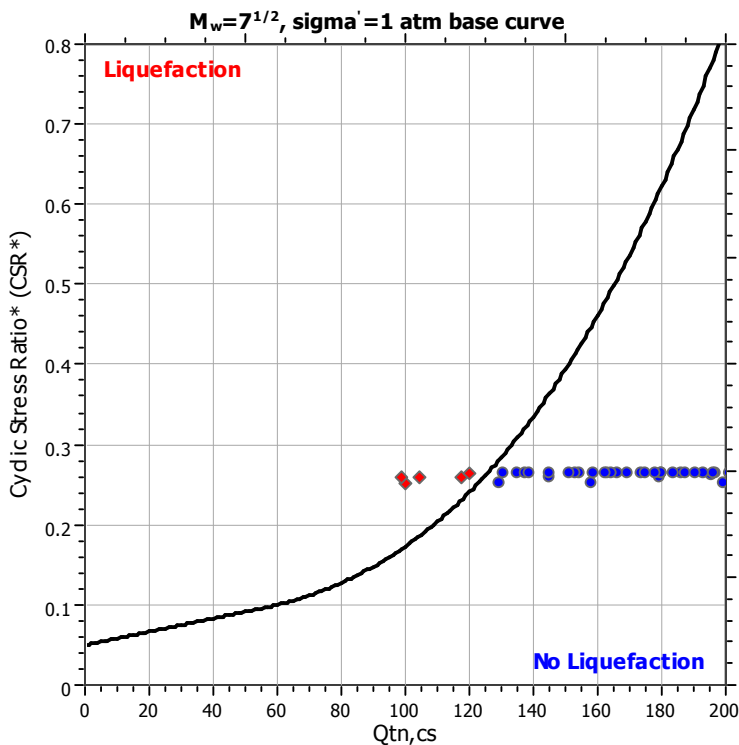
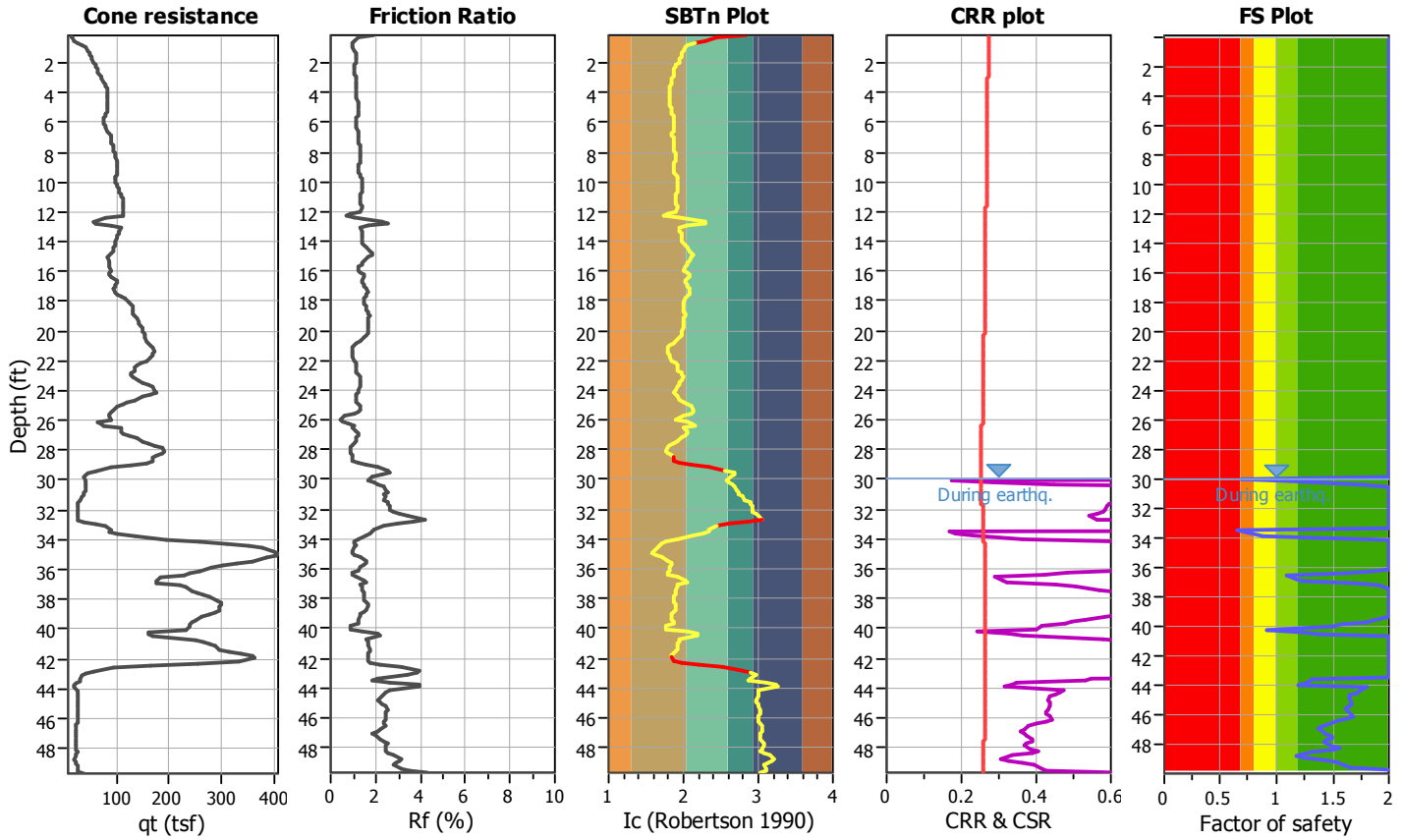
Project title : Hanson Ranch

Location : Brentwood, California

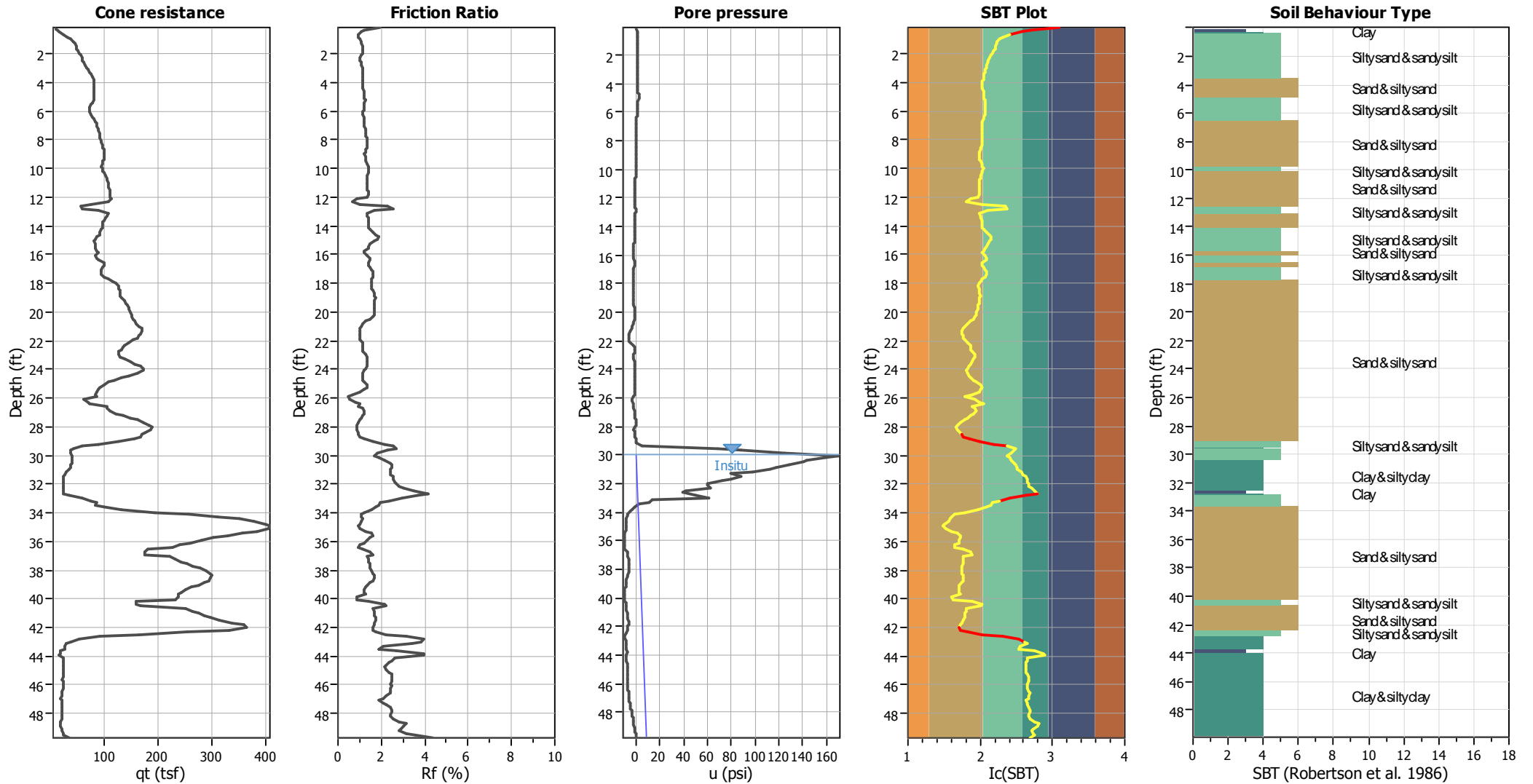
CPT file : 1-CPT5

Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | Robertson (2009) | G.W.T. (in-situ): | 30.00 ft | Use fill: | No | Clay like behavior | |
| Fines correction method: | Robertson (2009) | G.W.T. (earthq.): | 30.00 ft | Fill height: | N/A | applied: | All soils |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 7.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | Limit depth: | N/A |
| Peak ground acceleration: | 0.50 | Unit weight calculation: | Based on SBT | K_0 applied: | No | MSF method: | Method based |



CPT basic interpretation plots



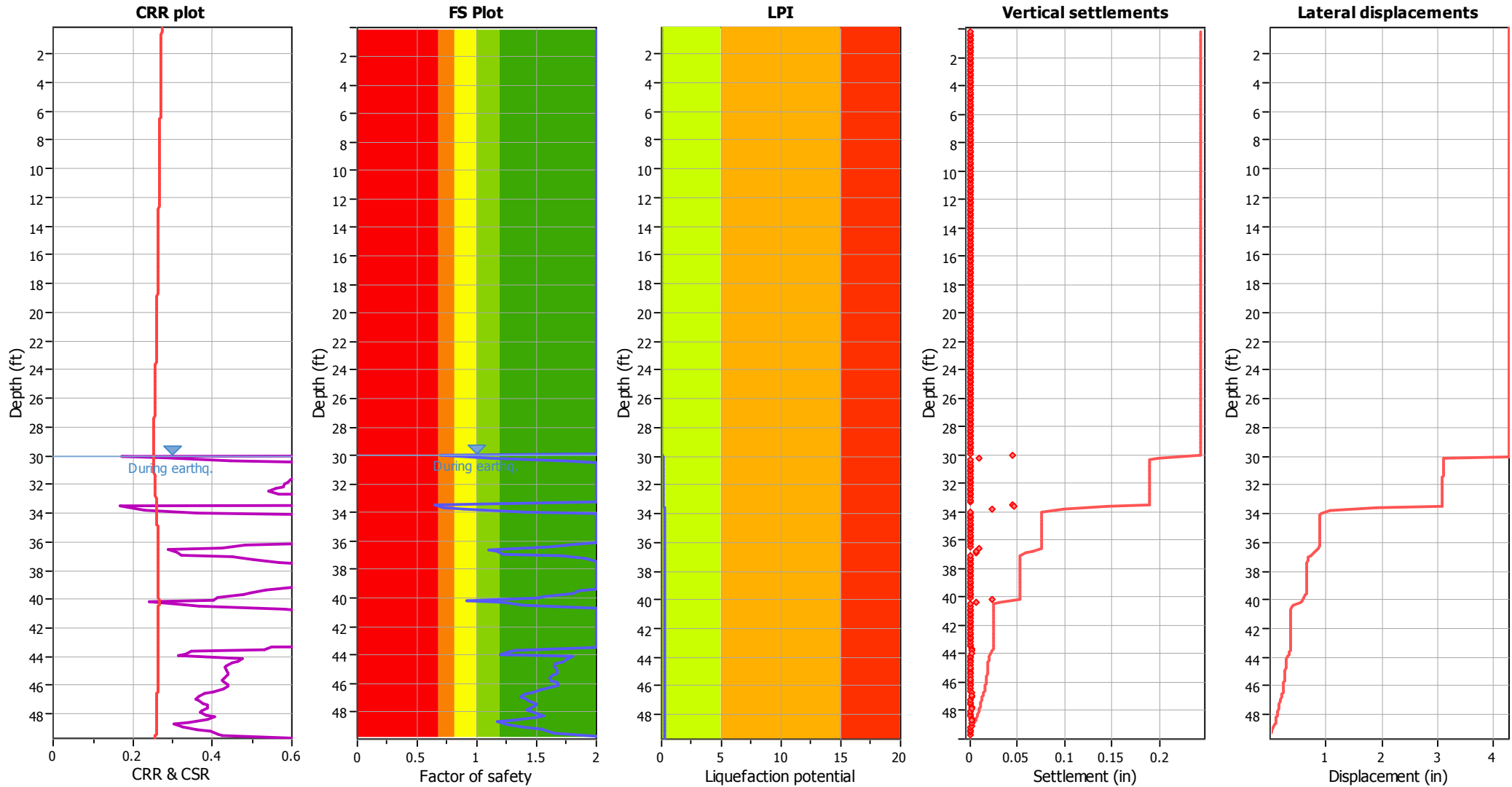
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|-----------|
| Analysis method: | Robertson (2009) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | Robertson (2009) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K _s applied: | No |
| Earthquake magnitude M _w : | 7.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | All soils |
| Peak ground acceleration: | 0.50 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 30.00 ft | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

Liquefaction analysis overall plots



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|-----------|
| Analysis method: | Robertson (2009) | Depth to water table (earthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | Robertson (2009) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_s applied: | No |
| Earthquake magnitude M_w : | 7.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | All soils |
| Peak ground acceleration: | 0.50 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 30.00 ft | Fill height: | N/A | Limit depth: | N/A |

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

LIQUEFACTION ANALYSIS REPORT

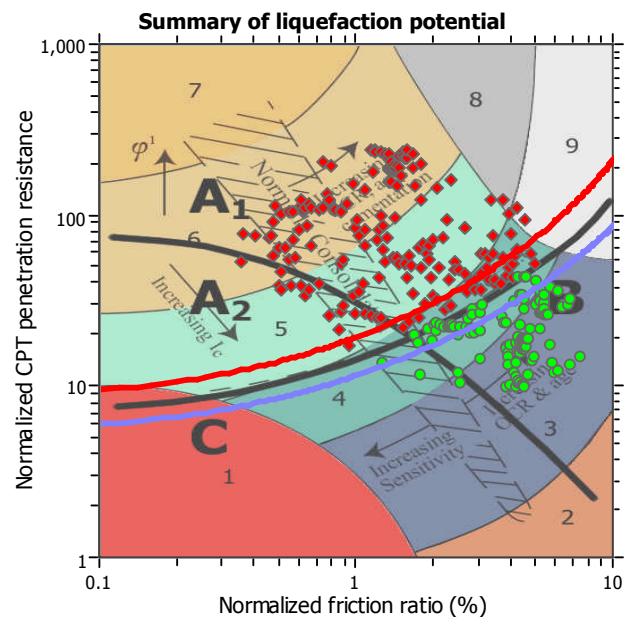
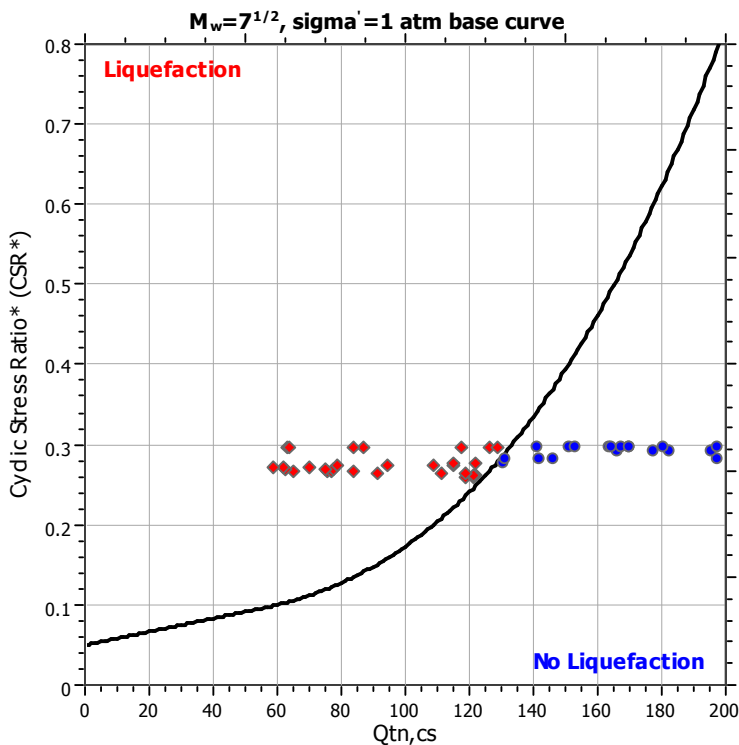
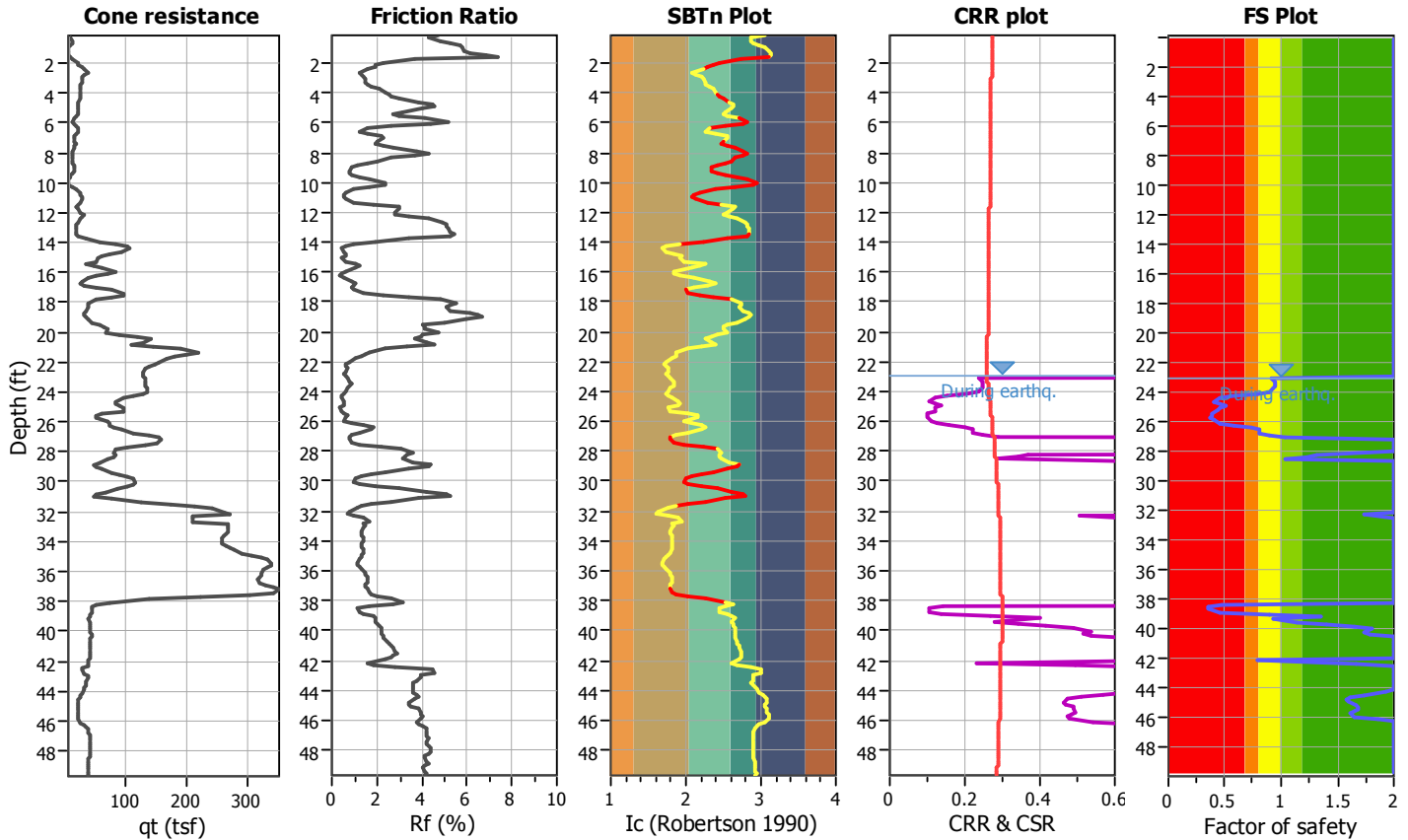
Project title : Hanson Ranch

Location : Brentwood, California

CPT file : 1-CPT1

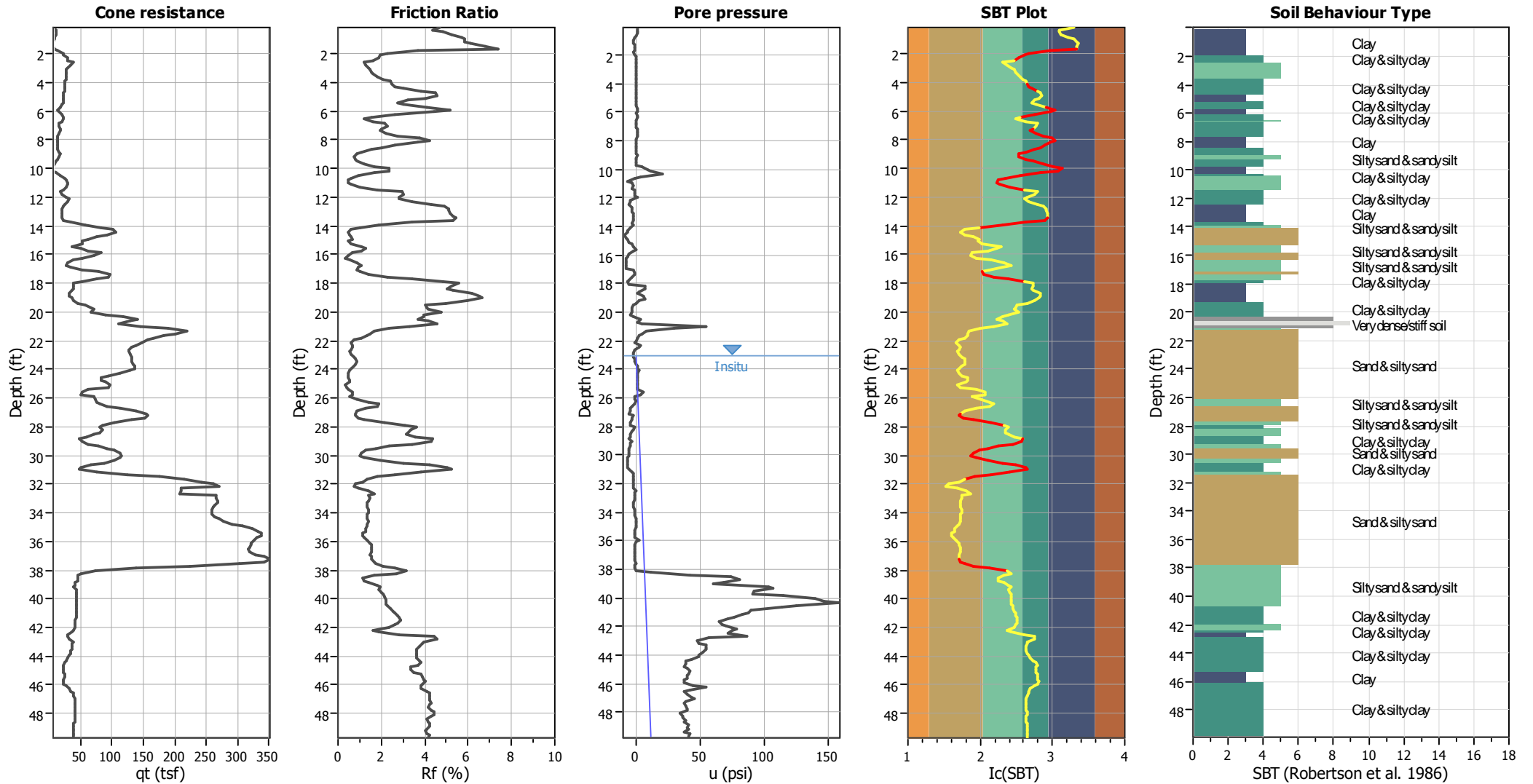
Input parameters and analysis data

| | | | | | | | |
|------------------------------|-------------------|---------------------------|--------------|-------------------------|-----|----------------------|--------------|
| Analysis method: | Robertson (2009) | G.W.T. (in-situ): | 23.00 ft | Use fill: | No | Clay like behavior | |
| Fines correction method: | Robertson (2009) | G.W.T. (earthq.): | 23.00 ft | Fill height: | N/A | applied: | All soils |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth applied: | No |
| Earthquake magnitude M_w : | 7.00 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | Limit depth: | N/A |
| Peak ground acceleration: | 0.50 | Unit weight calculation: | Based on SBT | K_0 applied: | No | MSF method: | Method based |



Zone A₁: Cyclic liquefaction likely depending on size and duration of cyclic loading
 Zone A₂: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
 Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
 Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



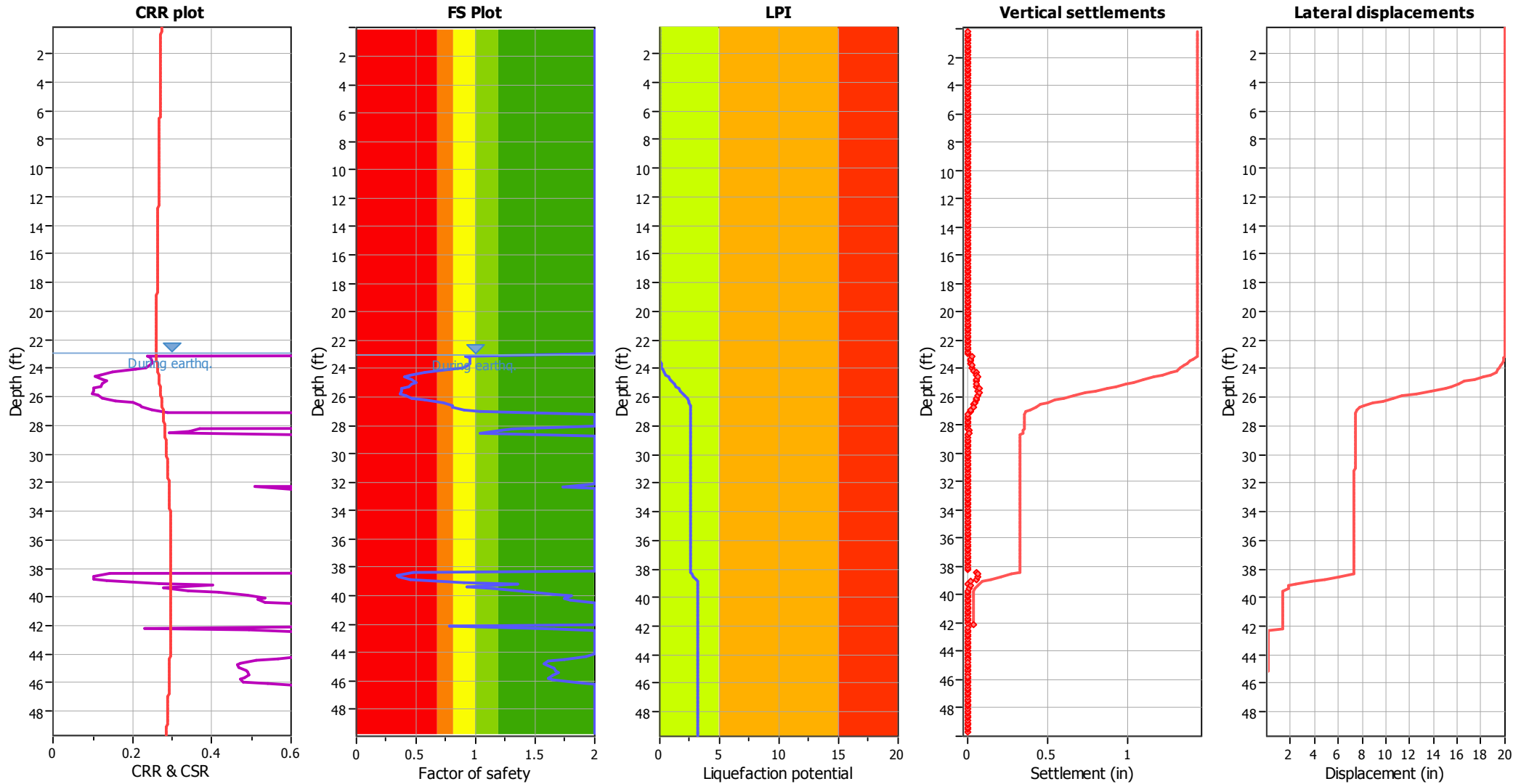
Input parameters and analysis data

| | | | | | |
|---------------------------------------|-------------------|--------------------------------|--------------|-----------------------------|-----------|
| Analysis method: | Robertson (2009) | Depth to water table (erthq.): | 23.00 ft | Fill weight: | N/A |
| Fines correction method: | Robertson (2009) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K _s applied: | No |
| Earthquake magnitude M _w : | 7.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | All soils |
| Peak ground acceleration: | 0.50 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 23.00 ft | Fill height: | N/A | Limit depth: | N/A |

SBT legend

| | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

Liquefaction analysis overall plots



Input parameters and analysis data

| | | | | | |
|--------------------------------|-------------------|---------------------------------|--------------|-----------------------------|-----------|
| Analysis method: | Robertson (2009) | Depth to water table (earthq.): | 23.00 ft | Fill weight: | N/A |
| Fines correction method: | Robertson (2009) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | K_s applied: | No |
| Earthquake magnitude M_w : | 7.00 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | All soils |
| Peak ground acceleration: | 0.50 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 23.00 ft | Fill height: | N/A | Limit depth: | N/A |

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

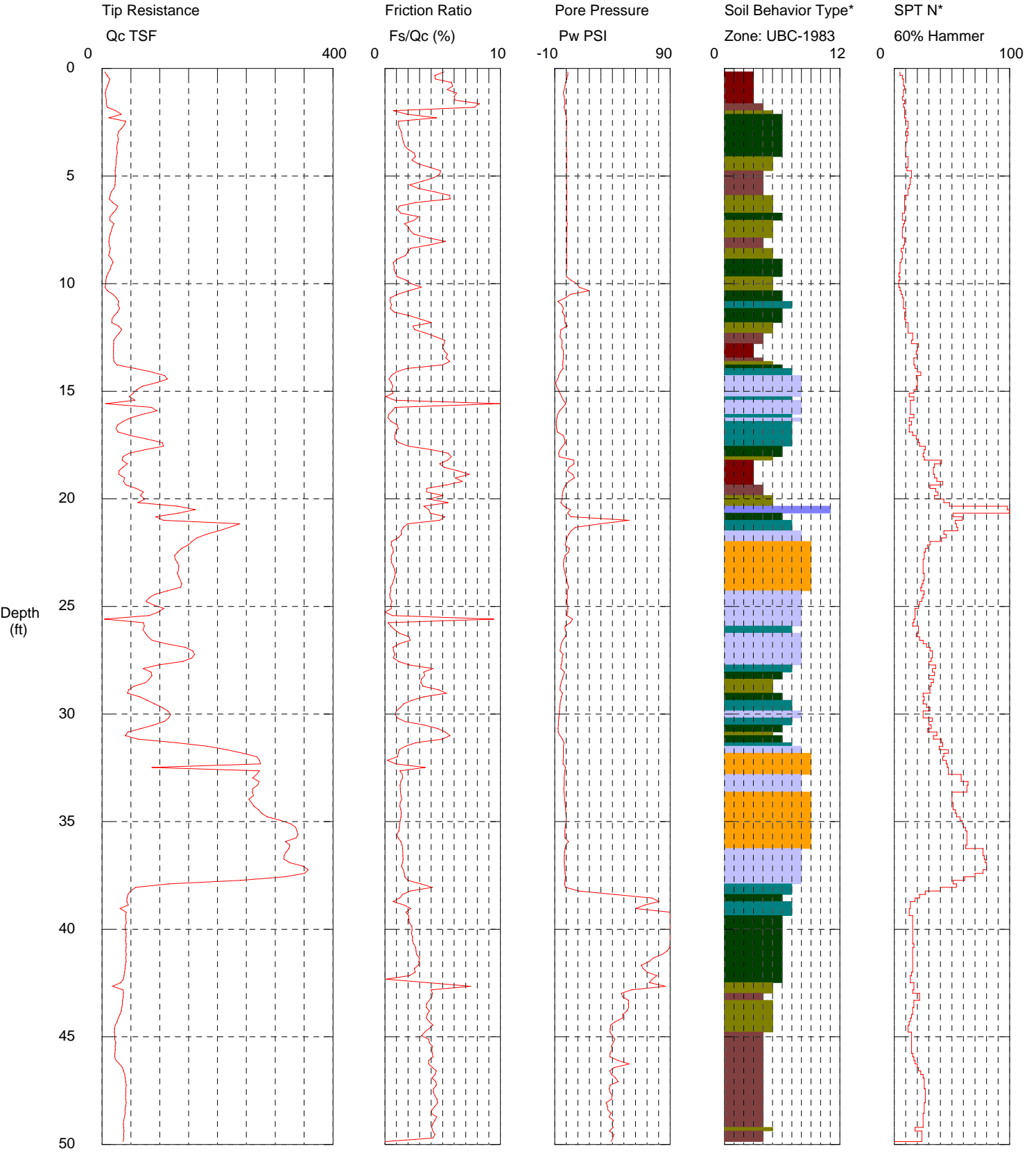
LPI color scheme

- Very high risk
- High risk
- Low risk

ENGEO

Operator: Miles
 Sounding: CPT-1
 Cone Used: DSG1150

CPT Date/Time: 12/9/2014 8:01:09 AM
 Location: Discovery Bay
 Job Number: ENG-500



Maximum Depth = 49.87 feet

Depth Increment = 0.164 feet

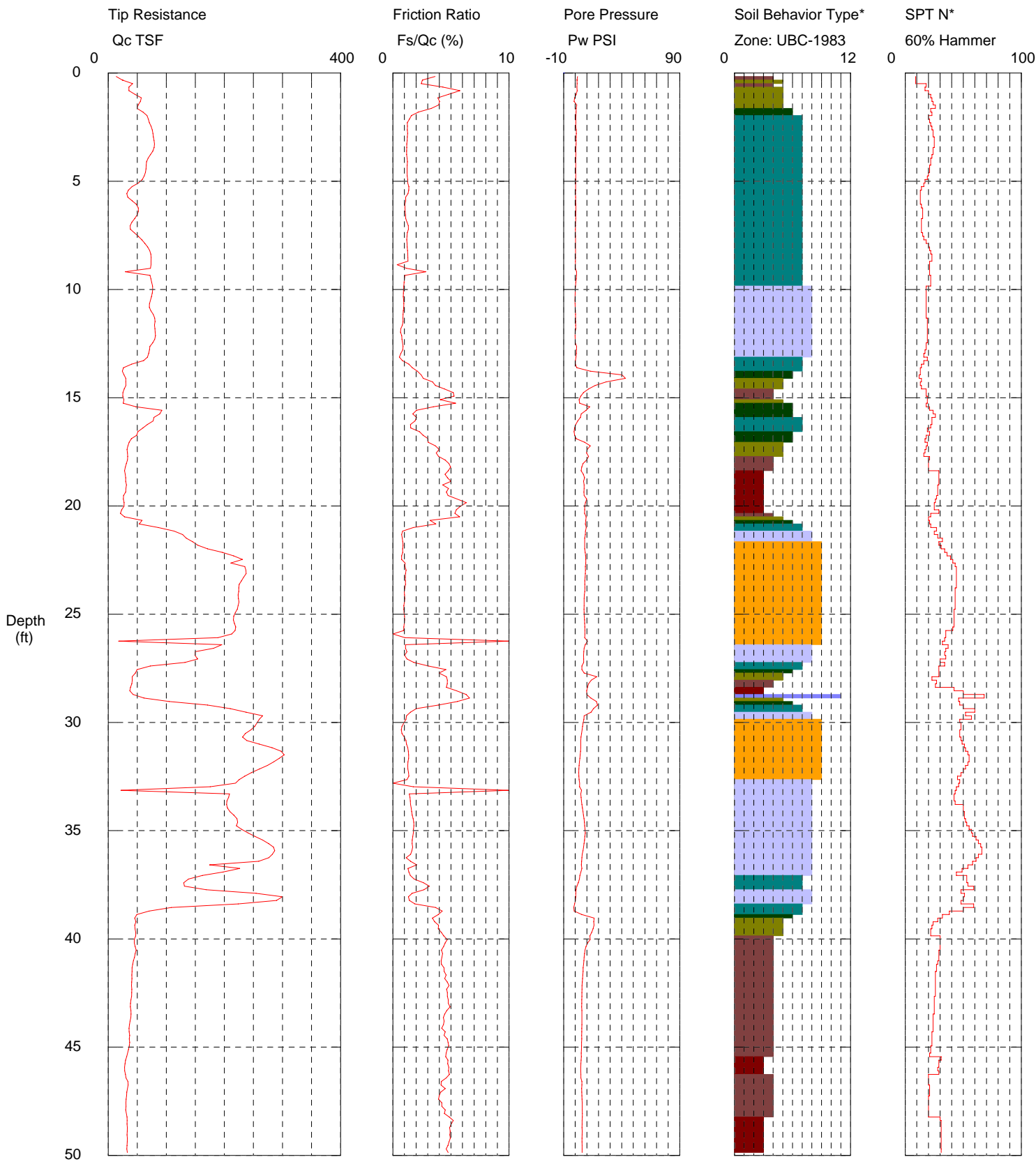
- | | | | |
|--------------------------|-----------------------------|----------------------------|--------------------------------|
| 1 sensitive fine grained | 4 silty clay to clay | 7 silty sand to sandy silt | 10 gravelly sand to sand |
| 2 organic material | 5 clayey silt to silty clay | 8 sand to silty sand | 11 very stiff fine grained (*) |
| 3 clay | 6 sandy silt to clayey silt | 9 sand | 12 sand to clayey sand (*) |

*Soil behavior type and SPT based on data from UBC-1983

ENGEO

Operator: Miles
 Sounding: CPT-2
 Cone Used: DSG1150

CPT Date/Time: 12/9/2014 8:50:28 AM
 Location: Discovery Bay
 Job Number: ENG-500



Maximum Depth = 51.35 feet

Depth Increment = 0.164 feet

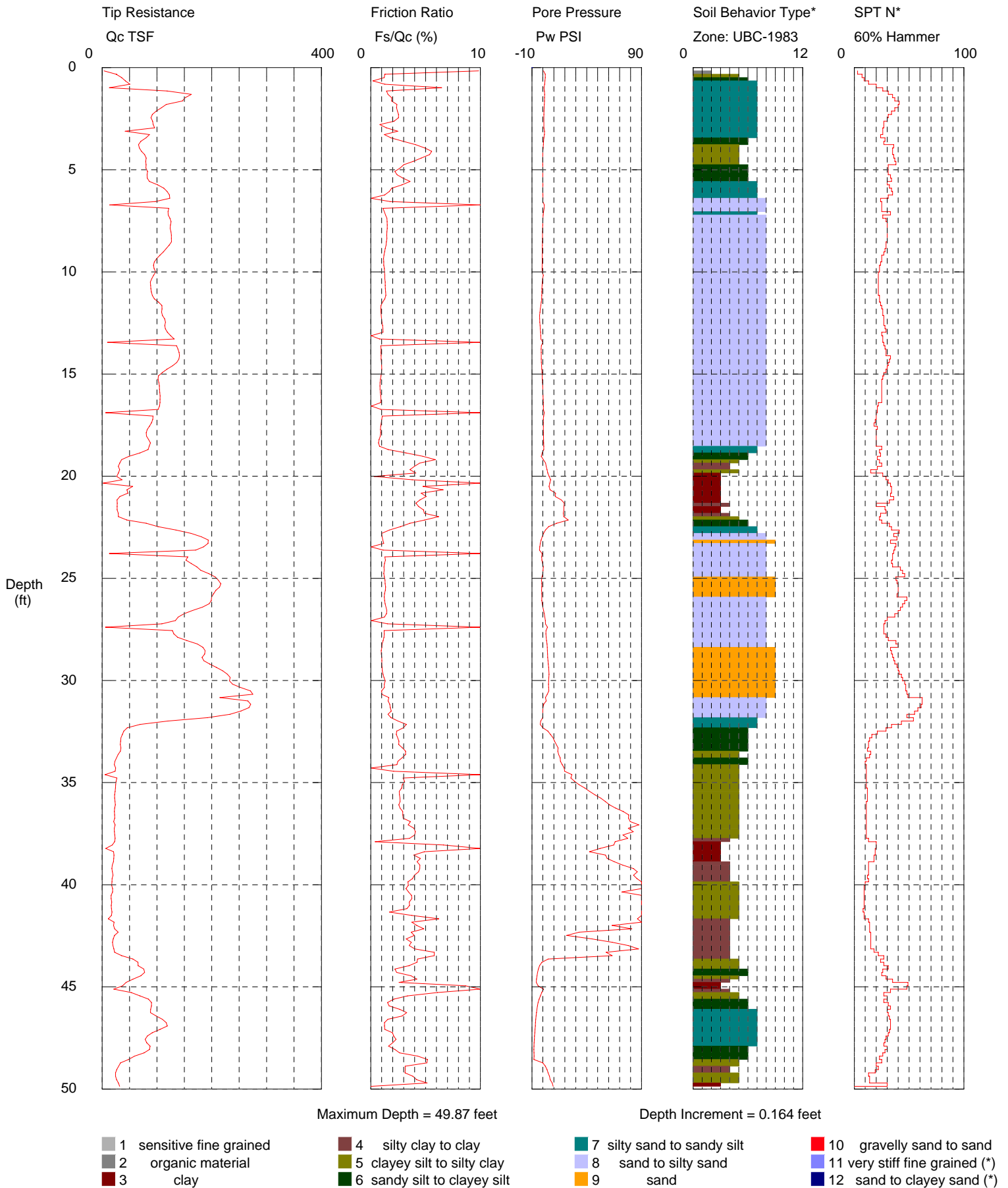
- | | | | |
|--------------------------|-----------------------------|----------------------------|--------------------------------|
| 1 sensitive fine grained | 4 silty clay to clay | 7 silty sand to sandy silt | 10 gravelly sand to sand |
| 2 organic material | 5 clayey silt to silty clay | 8 sand to silty sand | 11 very stiff fine grained (*) |
| 3 clay | 6 sandy silt to clayey silt | 9 sand | 12 sand to clayey sand (*) |

*Soil behavior type and SPT based on data from UBC-1983

ENGEO

Operator: Miles
 Sounding: CPT-4
 Cone Used: DSG1150

CPT Date/Time: 12/9/2014 10:41:13 AM
 Location: Discovery Bay
 Job Number: ENG-500

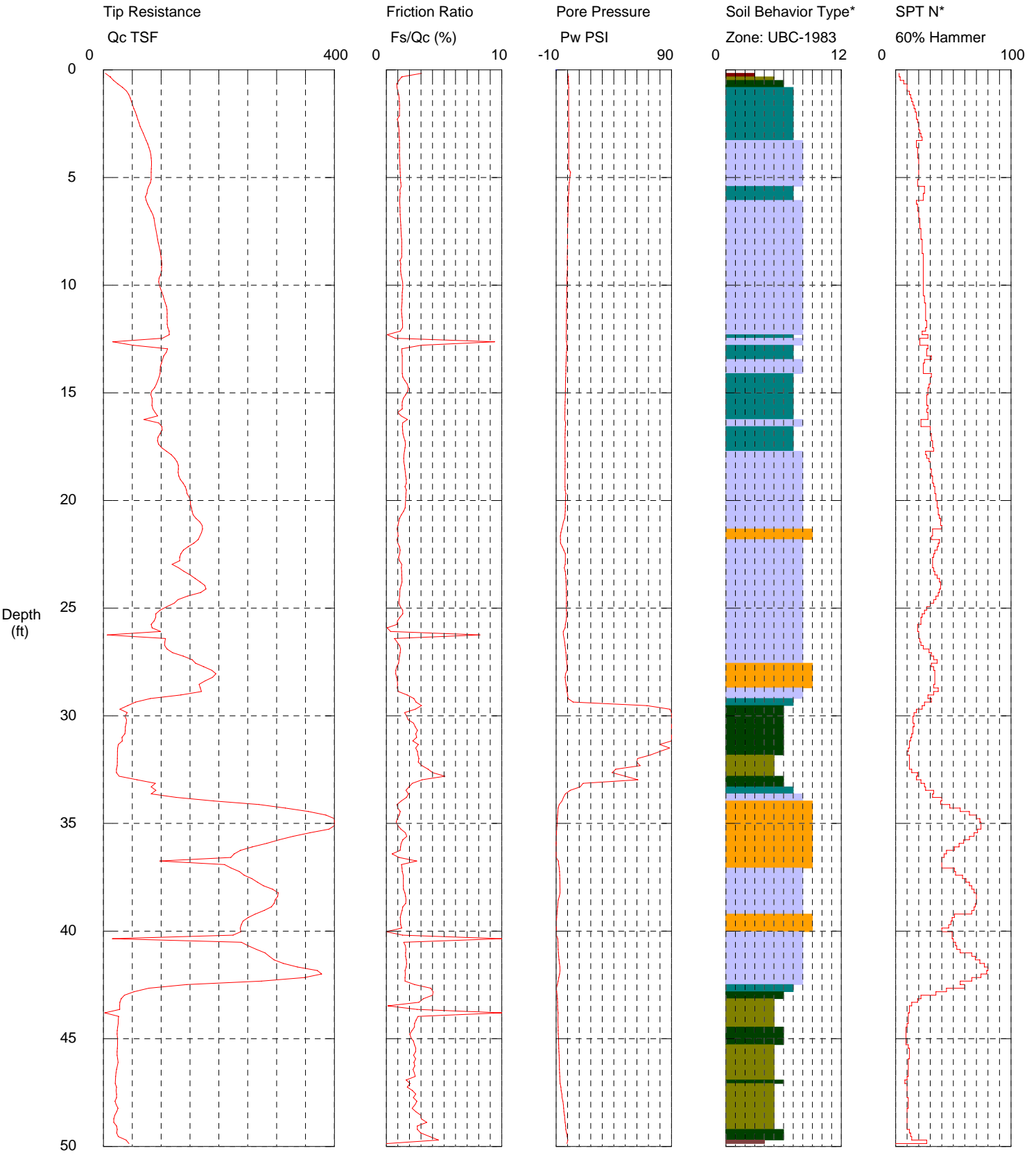


*Soil behavior type and SPT based on data from UBC-1983

ENGEO

Operator: Miles
 Sounding: CPT-5
 Cone Used: DSG1150

CPT Date/Time: 12/9/2014 7:24:01 AM
 Location: Discovery Bay
 Job Number: ENG-500



Maximum Depth = 49.87 feet

Depth Increment = 0.164 feet

- | | | | |
|--------------------------|-----------------------------|----------------------------|--------------------------------|
| 1 sensitive fine grained | 4 silty clay to clay | 7 silty sand to sandy silt | 10 gravelly sand to sand |
| 2 organic material | 5 clayey silt to silty clay | 8 sand to silty sand | 11 very stiff fine grained (*) |
| 3 clay | 6 sandy silt to clayey silt | 9 sand | 12 sand to clayey sand (*) |

*Soil behavior type and SPT based on data from UBC-1983

**A
P
P
E
N
D
I
X

B**

APPENDIX B

Key to Boring Logs
Exploration Logs



KEY TO BORING LOGS

| MAJOR TYPES | | DESCRIPTION | |
|---|--|--|---|
| COARSE-GRAINED SOILS MORE THAN HALF OF MAT'L LARGER THAN #200 SIEVE | GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE | CLEAN GRAVELS WITH LESS THAN 5% FINES | GW - Well graded gravels or gravel-sand mixtures GP - Poorly graded gravels or gravel-sand mixtures |
| | | GRAVELS WITH OVER 12 % FINES | GM - Silty gravels, gravel-sand and silt mixtures GC - Clayey gravels, gravel-sand and clay mixtures |
| | SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE | CLEAN SANDS WITH LESS THAN 5% FINES | SW - Well graded sands, or gravelly sand mixtures SP - Poorly graded sands or gravelly sand mixtures |
| | | SANDS WITH OVER 12 % FINES | SM - Silty sand, sand-silt mixtures SC - Clayey sand, sand-clay mixtures |
| FINE-GRAINED SOILS MORE THAN HALF OF MAT'L SMALLER THAN #200 SIEVE | SILTS AND CLAYS LIQUID LIMIT 50 % OR LESS | | ML - Inorganic silt with low to medium plasticity CL - Inorganic clay with low to medium plasticity OL - Low plasticity organic silts and clays |
| | SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 % | | MH - Elastic silt with high plasticity CH - Fat clay with high plasticity OH - Highly plastic organic silts and clays |
| | HIGHLY ORGANIC SOILS | | PT - Peat and other highly organic soils |
| | | | |

For fine-grained soils with 15 to 29% retained on the #200 sieve, the words "with sand" or "with gravel" (whichever is predominant) are added to the group name.

For fine-grained soil with >30% retained on the #200 sieve, the words "sandy" or "gravelly" (whichever is predominant) are added to the group name.

GRAIN SIZES

| U.S. STANDARD SERIES SIEVE SIZE | | | | CLEAR SQUARE SIEVE OPENINGS | | | | |
|---------------------------------|------|--------|--------|-----------------------------|--------|----|---------|----------|
| | 200 | 40 | 10 | 4 | 3/4 " | 3" | 12" | |
| SILTS AND CLAYS | SAND | | | GRAVEL | | | COBBLES | BOULDERS |
| | FINE | MEDIUM | COARSE | FINE | COARSE | | | |

RELATIVE DENSITY

| <u>SANDS AND GRAVELS</u> | BLOWS/FOOT (S.P.T.) |
|--------------------------|------------------------|
| VERY LOOSE | 0-4 |
| LOOSE | 4-10 |
| MEDIUM DENSE | 10-30 |
| DENSE | 30-50 |
| VERY DENSE | OVER 50 |

CONSISTENCY

| <u>SILTS AND CLAYS</u> | <u>STRENGTH*</u> |
|------------------------|------------------|
| VERY SOFT | 0-1/4 |
| SOFT | 1/4-1/2 |
| MEDIUM STIFF | 1/2-1 |
| STIFF | 1-2 |
| VERY STIFF | 2-4 |
| HARD | OVER 4 |

MOISTURE CONDITION

| | |
|-------|---------------------------|
| DRY | Dusty, dry to touch |
| MOIST | Damp but no visible water |
| WET | Visible freewater |

LINE TYPES

| | |
|-------|---|
| ————— | Solid - Layer Break |
| ----- | Dashed - Gradational or approximate layer break |

GROUND-WATER SYMBOLS

| | |
|--|-----------------------------------|
| | Groundwater level during drilling |
| | Stabilized groundwater level |

SAMPLER SYMBOLS

| | |
|----|---------------------------------------|
| | Modified California (3" O.D.) sampler |
| | California (2.5" O.D.) sampler |
| | S.P.T. - Split spoon sampler |
| | Shelby Tube |
| | Continuous Core |
| | Bag Samples |
| | Grab Samples |
| NR | No Recovery |

(S.P.T.) Number of blows of 140 lb. hammer falling 30" to drive a 2-inch O.D. (1-3/8 inch I.D.) sampler

* Unconfined compressive strength in tons/sq. ft., asterisk on log means determined by pocket penetrometer



LOG OF BORING 1-B1

Geotechnical Exploration
Hansen
Brentwood, California
11788.000.000

DATE DRILLED: 12/16/2014
HOLE DEPTH: Approx. 51½ ft.
HOLE DIAMETER: 4.5 in.
SURF ELEV (MSV 84): Approx. 53 ft.

LOGGED / REVIEWED BY: T. Strack / JB
DRILLING CONTRACTOR: Britton Exploration
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Automatic Trip Hammer

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits | | | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Unconfined Strength (tsf) *field approx |
|---------------|-------------------|-------------|---|------------|-------------|-----------------|------------------|---------------|------------------|---|------------------------------------|--------------------------|--|
| | | | | | | | Liquid Limit | Plastic Limit | Plasticity Index | | | | |
| 50 | | | SANDY LEAN CLAY (CL), dark brown, soft, moist to wet, 35-45% fine-grained sand [FILL?] | | | | | | | | | | |
| | | | LEAN CLAY (CL), brown, soft, moist to wet, fine-grained sand [FILL?] | | | 4 | | | | 82 | 25 | 97 | 0.44 |
| 5 | | | | | | 8 | | | | | | | |
| | | | SILTY SAND (SM), dark brown, medium dense, moist, 20-30% fines, fine-grained sand [FILL?] | | | 12 | | | | | | | >4.5* |
| 45 | | | SILTY SAND (SM), dark yellowish brown, loose, moist, 40-50% fines, fine-grained sand [FILL?] | | | 4 | | | | 25 | | | |
| 10 | | | SANDY LEAN CLAY (CL), olive brown, soft, wet, 20-30% fine-grained sand (perched groundwater) [FILL?] | | | 2 | | | | 35 | 29 | | |
| | | | SILTY SAND (SM), yellowish brown, loose, wet, 5-12% fines, fine- to medium-grained sand [FILL?] | | | | | | | | | | |
| 40 | | | SANDY LEAN CLAY (CL), olive brown, soft, wet, >30% fine-grained sand [FILL?] | | | | | | | | | | |
| 15 | | | SANDY LEAN CLAY (CL), dark yellowish brown, soft to stiff, moist to wet, >30% fine-grained sand [FILL?] | | | 9 | | | | | | | |
| 35 | | | | | | | | | | | | | |
| 20 | | | CLAYEY SAND (SC), olive gray, medium dense, moist, fine-grained sand | | | 20 | | | | 41 | | | |
| 30 | | | POORLY GRADED SAND (SP), olive brown, medium dense, wet, fine-grained sand | | | 9 | | | | 4 | | | |
| 25 | | | | | | | | | | | | | |
| 25 | | | LEAN CLAY WITH SAND (CL), dark yellowish brown, stiff, wet, fine-grained sand | | | | | | | | | | |
| 30 | | | | | | | | | | | | | |

LOG - GEOTECHNICAL W/ELEV. 11788.000.000 BORINGS 1-5.GPJ ENGEO INC.GDT 12/29/14



LOG OF BORING 1-B1

Geotechnical Exploration
Hansen
Brentwood, California
11788.000.000

DATE DRILLED: 12/16/2014
HOLE DEPTH: Approx. 51½ ft.
HOLE DIAMETER: 4.5 in.
SURF ELEV (MSV 84): Approx. 53 ft.

LOGGED / REVIEWED BY: T. Strack / JB
DRILLING CONTRACTOR: Britton Exploration
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Automatic Trip Hammer

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits | | | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Unconfined Strength (tsf) *field approx |
|---------------|-------------------|-------------|---|------------|-------------|-----------------|------------------|---------------|------------------|---|------------------------------------|--------------------------|--|
| | | | | | | | Liquid Limit | Plastic Limit | Plasticity Index | | | | |
| 12 | | | LEAN CLAY WITH SAND (CL), dark yellowish brown, stiff, wet, fine-grained sand | | | 12 | | | | 67 | | | |
| 20 | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 40 | | | LEAN CLAY (CL), olive brown, stiff, wet, <15% fine-grained sand | | | 16 | | | | | | | >4.5* |
| 10 | | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | |
| | | | Bottom of boring at approximately 51 1/2 feet. | | | | | | | | | | |
| | | | Groundwater encountered at approximately 23 feet during drilling. | | | | | | | | | | |



LOG OF BORING 1-B2

Geotechnical Exploration
Hansen
Brentwood, California
11788.000.000

DATE DRILLED: 12/16/2014
HOLE DEPTH: Approx. 26½ ft.
HOLE DIAMETER: 4.5 in.
SURF ELEV (MSV 84): Approx. 53 ft.

LOGGED / REVIEWED BY: T. Strack / JB
DRILLING CONTRACTOR: Britton Exploration
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Automatic Trip Hammer

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits | | | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Unconfined Strength (tsf) *field approx |
|---------------|-------------------|-------------|--|------------|-------------|-----------------|------------------|---------------|------------------|---|------------------------------------|--------------------------|--|
| | | | | | | | Liquid Limit | Plastic Limit | Plasticity Index | | | | |
| | | | LEAN CLAY WITH SAND (CL), dark brown, soft, moist to wet, 15-30% fine-grained sand, surface organics | | | | | | | | | | |
| | | | LEAN CLAY (CL), dark brown, medium stiff, moist to wet, <15% fine-grained sand | | | 5 | | | | 84 | 23 | 98 | 0.51 |
| 50 | | | | | | 5 | | | | | | | |
| 5 | | | | | | 10 | | | | | | | >4.5* |
| 45 | | | | | | 9 | | | | | | | |
| | | | SILTY SAND (SM), dark yellowish brown, medium dense, moist, 15-25% fines, fine- to medium-grained | | | 15 | | | | | | | 3.5* |
| 10 | | | | | | 15 | | | | | | | |
| | | | CLAYEY SAND (SC), dark brown, medium dense, moist, fine- to medium-grained sand | | | 11 | | | | 49 | | | |
| 40 | | | | | | 11 | | | | | | | |
| 15 | | | | | | 11 | | | | | | | |
| 35 | | | POORLY GRADED SAND WITH SILT (SP-SM), yellowish brown, medium dense, wet, fine- to medium-grained sand | | | 18 | | | | 7 | | | |
| 20 | | | | | | 18 | | | | | | | |
| 30 | | | | | | 18 | | | | | | | |
| 25 | | | LEAN CLAY (CL), olive brown, stiff, wet, <15% fine-grained sand | | | 15 | | | | | | | |
| | | | Bottom of boring at approximately 26 1/2 feet. | | | | | | | | | | |
| | | | Groundwater encountered at approximately 20 feet during drilling. | | | | | | | | | | |

LOG - GEOTECHNICAL W/ELEV. 11788.000.000 BORINGS 1-5.GPJ ENGEO INC.GDT 12/29/14



LOG OF BORING 1-B3

Geotechnical Exploration
Hansen
Brentwood, California
11788.000.000

DATE DRILLED: 12/16/2014
HOLE DEPTH: Approx. 21½ ft.
HOLE DIAMETER: 4.5 in.
SURF ELEV (MSV 84): Approx. 52 ft.

LOGGED / REVIEWED BY: T. Strack / JB
DRILLING CONTRACTOR: Britton Exploration
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Automatic Trip Hammer

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits | | | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Unconfined Strength (tsf) *field approx |
|---------------|-------------------|-------------|--|------------|-------------|-----------------|------------------|---------------|------------------|---|------------------------------------|--------------------------|--|
| | | | | | | | Liquid Limit | Plastic Limit | Plasticity Index | | | | |
| 50 | | | LEAN CLAY WITH SAND (CL), dark brown, soft, moist to wet, 15-25% fine-grained sand | | | 9 | | | | | | | |
| 5 | | | LEAN CLAY (CL), dark brown, medium stiff to very stiff, moist to wet, <15% fine-grained sand | | | 7 | | | | | | | |
| 45 | | | | | | 21 | | | | | | | >4.5* |
| 40 | | | | | | 14 | | | | | | | |
| 35 | | | CLAYEY SAND (SC), grayish brown, medium dense, moist, fine-to medium-grained sand | | | 24 | | | | 37 | | | 4.0* |
| 20 | | | LEAN CLAY (CL), grayish brown, stiff, wet, <15% fine-grained sand | | ▽ | 14 | | | | | | | 2.5* |
| | | | Bottom of boring at approximately 21 1/2 feet. | | | | | | | | | | |
| | | | Groundwater encountered at approximately 20 feet during drilling. | | | | | | | | | | |

LOG - GEOTECHNICAL W/ELEV. 11788.000.000 BORINGS 1-5.GPJ ENGEO INC.GDT 12/29/14



LOG OF BORING 1-B4

Geotechnical Exploration
Hansen
Brentwood, California
11788.000.000

DATE DRILLED: 12/16/2014
HOLE DEPTH: Approx. 31½ ft.
HOLE DIAMETER: 4.5 in.
SURF ELEV (MSV 84): Approx. 60 ft.

LOGGED / REVIEWED BY: T. Strack / JB
DRILLING CONTRACTOR: Britton Exploration
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Automatic Trip Hammer

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits | | | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Unconfined Strength (tsf) *field approx |
|---------------|-------------------|-------------|--|------------|-------------|-----------------|------------------|---------------|------------------|---|------------------------------------|--------------------------|--|
| | | | | | | | Liquid Limit | Plastic Limit | Plasticity Index | | | | |
| 5 | 55 | | POORLY GRADED SAND (SP), dark yellowish brown, loose, moist to wet, <5% fine-grained sand POORLY GRADED SAND WITH SILT (SP-SM), brown, loose, moist to wet, fine-grained sand | | | 7 | | | | 7 | | | |
| 10 | 50 | | POORLY GRADED SAND (SP), brown, loose to medium dense, moist to wet, fine-grained sand | | | 10 | | | | 4 | | | |
| 15 | 45 | | | | | 13 | | | | | | | |
| 20 | 40 | | | | | 11 | | | | | | | |
| 25 | 35 | | LEAN CLAY WITH SAND (CL), olive gray, medium stiff to stiff, wet, 15-30% fine-grained sand, contains silt | | | 14 | | | | | | | 1.5* |
| 30 | 30 | | | | | | | | | | | | |

LOG - GEOTECHNICAL W/ELEV. 11788.000.000 BORINGS 1-5.GPJ ENGEO INC.GDT 12/29/14



LOG OF BORING 1-B4

Geotechnical Exploration
Hansen
Brentwood, California
11788.000.000

DATE DRILLED: 12/16/2014
HOLE DEPTH: Approx. 31½ ft.
HOLE DIAMETER: 4.5 in.
SURF ELEV (MSV 84): Approx. 60 ft.

LOGGED / REVIEWED BY: T. Strack / JB
DRILLING CONTRACTOR: Britton Exploration
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Automatic Trip Hammer

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits | | | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Unconfined Strength (tsf) *field approx |
|---------------|-------------------|-------------|---|------------|-------------|-----------------|------------------|---------------|------------------|---|------------------------------------|--------------------------|--|
| | | | | | | | Liquid Limit | Plastic Limit | Plasticity Index | | | | |
| | | | LEAN CLAY WITH SAND (CL), olive gray, medium stiff to stiff, wet, 15-30% fine-grained sand, contains silt | | | 23 | | | | | | | >4.5* |
| | | | Bottom of boring at approximately 31 1/2 feet. | | | | | | | | | | |
| | | | Perched groundwater encountered at approximately 20 feet depth. | | | | | | | | | | |



LOG OF BORING 1-B5

Geotechnical Exploration
Hansen
Brentwood, California
11788.000.000

DATE DRILLED: 12/16/2014
HOLE DEPTH: Approx. 21½ ft.
HOLE DIAMETER: 4.5 in.
SURF ELEV (MSV 84): Approx. 53 ft.

LOGGED / REVIEWED BY: T. Strack / JB
DRILLING CONTRACTOR: Britton Exploration
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Automatic Trip Hammer

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits | | | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Unconfined Strength (tsf) *field approx |
|---------------|-------------------|-------------|---|------------|-------------|-----------------|------------------|---------------|------------------|---|------------------------------------|--------------------------|--|
| | | | | | | | Liquid Limit | Plastic Limit | Plasticity Index | | | | |
| 50 | | | POORLY GRADED SAND WITH SILT (SP-SM), dark brown, loose, moist to wet, 5-12% fines, fine- to medium-grained sand SILTY SAND (SM), dark brown, loose, moist, 20-30% fines, fine- to medium-grained sand | | | 8 | | | | 15 | 106 | 2.0* | |
| 5 | | | SANDY LEAN CLAY (CL), dark brown, medium stiff, moist, 30-40% fine-grained sand LEAN CLAY (CL), dark brown, stiff, moist, <15% fine-grained sand | | | 11 | | | | | | | |
| 45 | | | | | | 31 | | | | 17 | 103 | | |
| 10 | | | | | | 16 | | | | | | | |
| 40 | | | POORLY GRADED SAND WITH SILT (SP-SM), dark yellowish brown, medium dense, moist to wet, fine-grained sand | | | 12 | | | | | | | |
| 15 | | | | | ▽ | 16 | | | | 8 | | | |
| 35 | | | | | | | | | | | | | |
| 20 | | | LEAN CLAY (CL), yellowish brown, medium stiff, wet, <15% fine-grained sand | | | 9 | | | | | | 1.5* | |
| | | | Bottom of boring at approximately 21 1/2 feet. | | | | | | | | | | |
| | | | Perched groundwater encountered at approximately 15 feet depth. | | | | | | | | | | |

LOG - GEOTECHNICAL W/ELEV. 11788.000.000 BORINGS 1-5.GPJ ENGEO INC.GDT 12/29/14

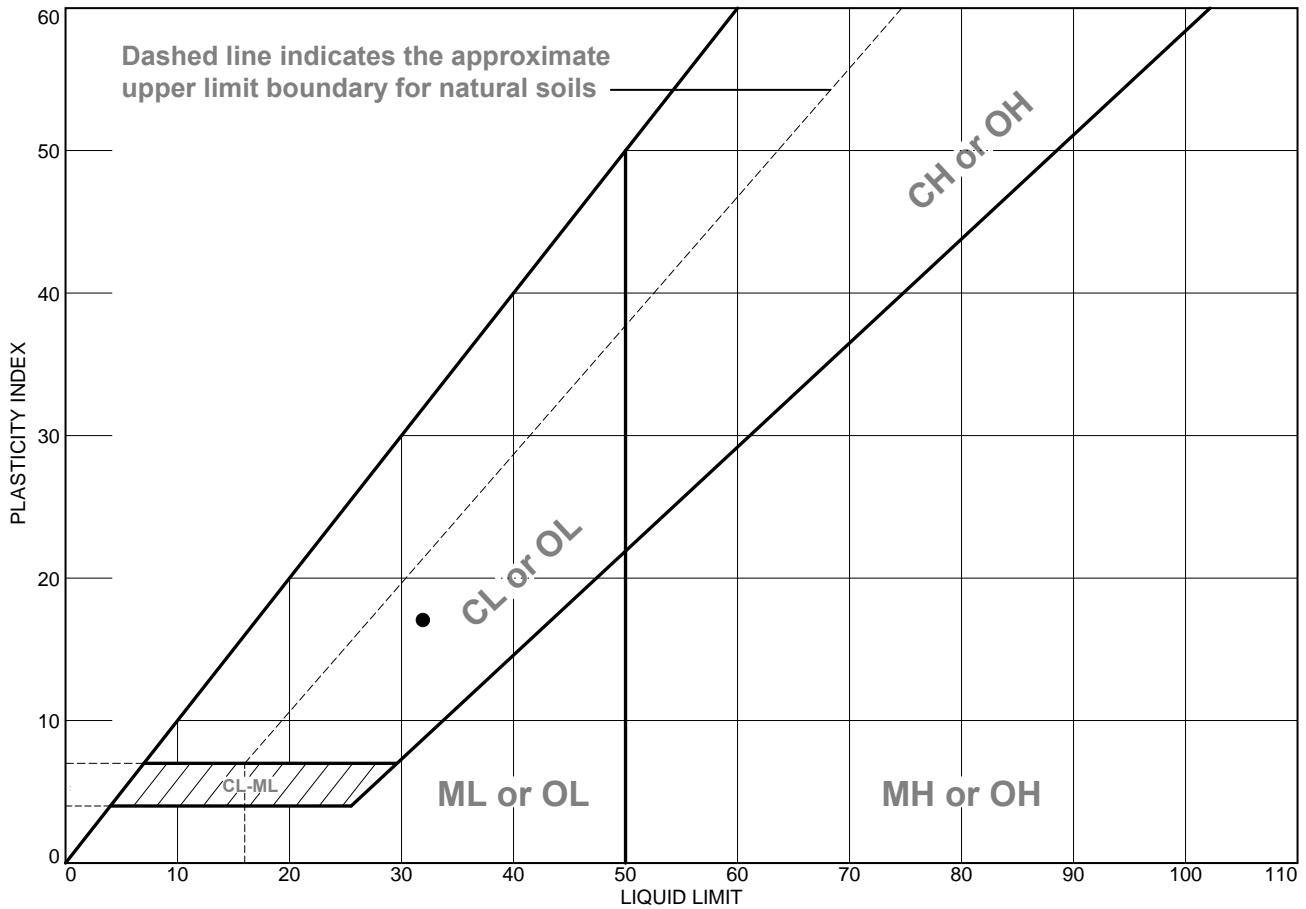
APPENDIX C

Laboratory Test Data

Liquid and Plastic Limits Test Report
Particle Size Distribution Reports



LIQUID AND PLASTIC LIMITS TEST REPORT



| | MATERIAL DESCRIPTION | LL | PL | PI | %<#40 | %<#200 | USCS |
|---|-----------------------|----|----|----|-------|--------|------|
| ● | Brown sandy lean CLAY | 32 | 15 | 17 | 97.2 | 56.5 | CL |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Project No. 11788.000.000 **Client:** Meritage Homes of California, Inc.
Project: Hansen ranch
● Depth: Surface **Sample Number:** 1B-2 (surface)

Remarks:



Figure

Tested By: KEL **Checked By:** RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 40.7 | 19.8 | 36.7 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4" | 100.0 | | |
| 3/8" | 100.0 | | |
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 100.0 | | |
| #40 | 97.2 | | |
| #60 | 84.7 | | |
| #140 | 61.3 | | |
| #200 | 56.5 | | |
| 0.0413 mm. | 54.0 | | |
| 0.0298 mm. | 50.3 | | |
| 0.0191 mm. | 48.1 | | |
| 0.0163 mm. | 46.6 | | |
| 0.0113 mm. | 43.6 | | |
| 0.0081 mm. | 40.7 | | |
| 0.0058 mm. | 38.4 | | |
| 0.0042 mm. | 34.7 | | |
| 0.0034 mm. | 33.3 | | |
| 0.0029 mm. | 31.7 | | |
| 0.0021 mm. | 30.3 | | |
| 0.0013 mm. | 27.2 | | |

Soil Description
Brown sandy lean CLAY

Atterberg Limits
 PL= 15 LL= 32 PI= 17

Coefficients
 D₉₀= 0.3023 D₈₅= 0.2530 D₆₀= 0.0988
 D₅₀= 0.0286 D₃₀= 0.0020 D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= CL AASHTO= A-6(6)

Remarks

* (no specification provided)

Sample Number: 1B-2 (surface) Depth: Surface Date: 12-11-14

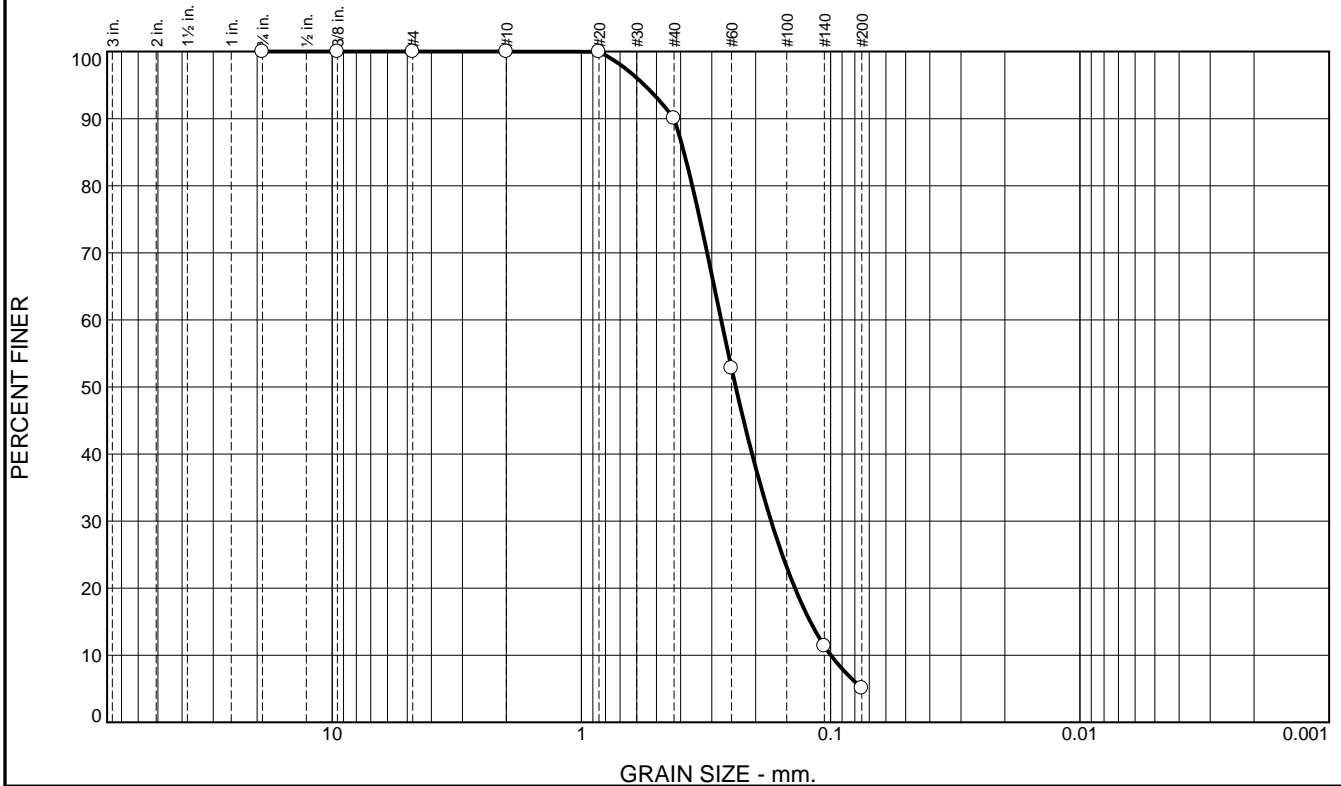


Client: Meritage Homes of California, Inc.
 Project: Hansen ranch
 Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.0 | 9.9 | 85.0 | 5.1 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4" | 100.0 | | |
| 3/8" | 100.0 | | |
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 100.0 | | |
| #40 | 90.1 | | |
| #60 | 52.8 | | |
| #140 | 11.4 | | |
| #200 | 5.1 | | |

Soil Description

Brown SAND with trace silt

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= 0.4245 D₈₅= 0.3877 D₆₀= 0.2751
D₅₀= 0.2404 D₃₀= 0.1733 D₁₅= 0.1207
D₁₀= 0.0998 C_u= 2.76 C_c= 1.09

Classification

USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1B-4 (surface)

Depth: Surface

Date: 12-11-14



Client: Meritage Homes of California, Inc.

Project: Hansen ranch

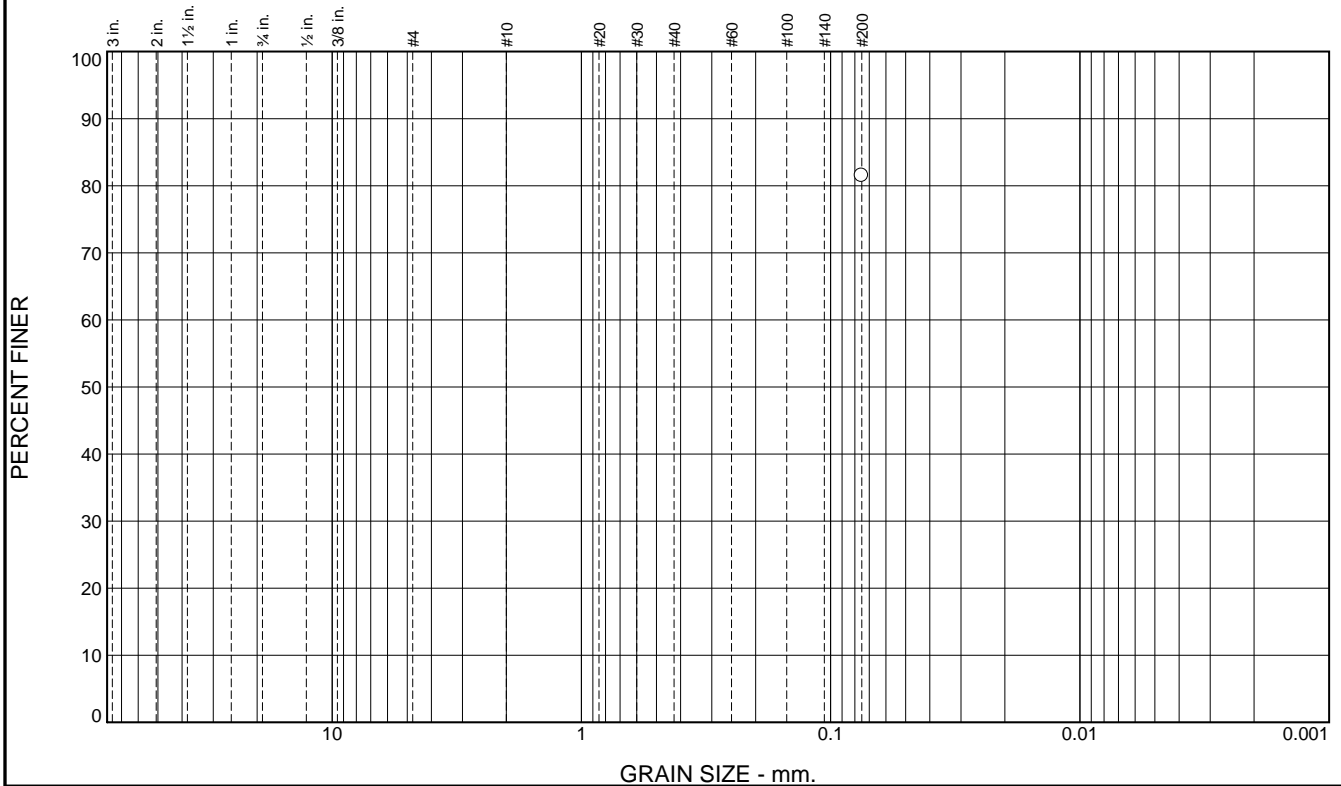
Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL

Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 81.5 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 81.5 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= D₈₅= D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B1 @ 2

Depth: 2

Date: 12-22-14



Client: Meritage Homes of California, Inc.

Project: Hansen ranch

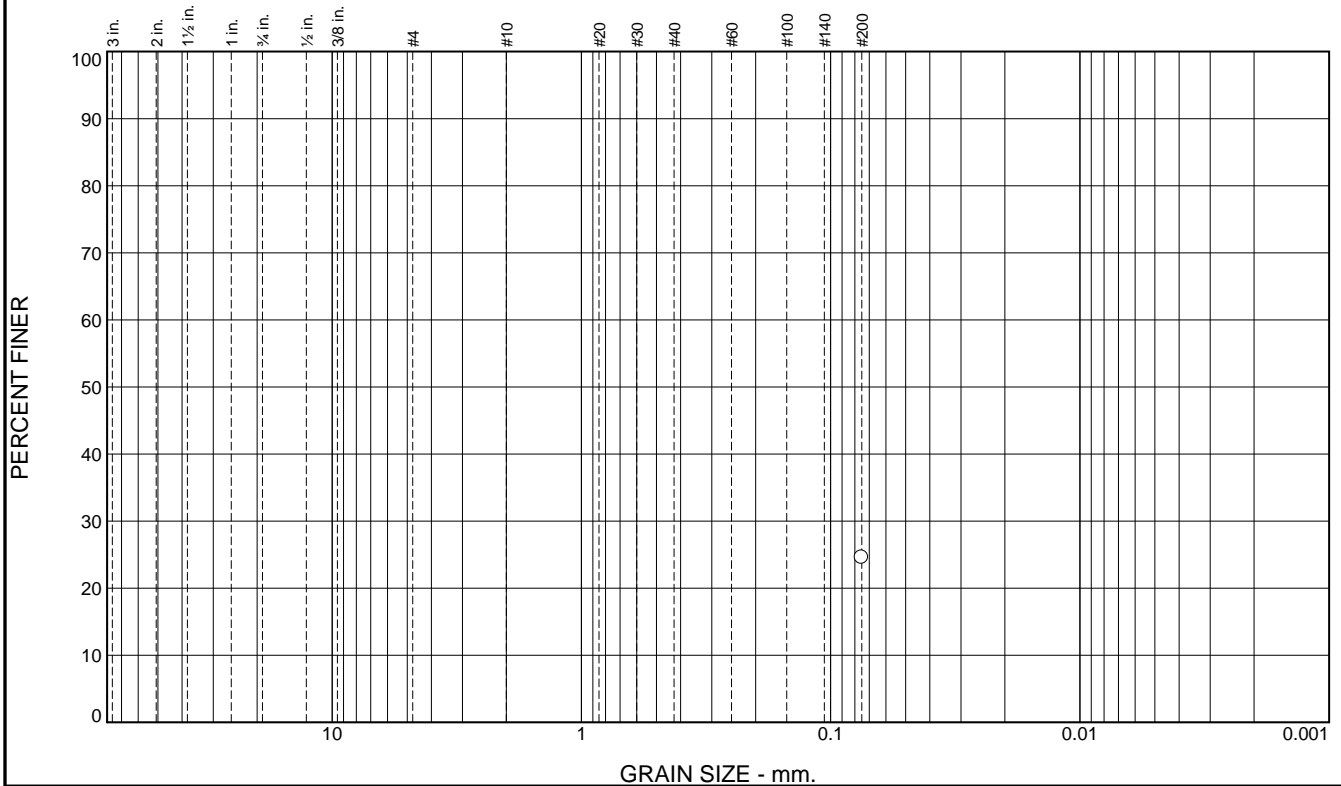
Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL

Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 24.6 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 24.6 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= D₈₅= D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B1 @ 6.5

Depth: 6.5

Date: 12-22-14



Client: Meritage Homes of California, Inc.

Project: Hansen ranch

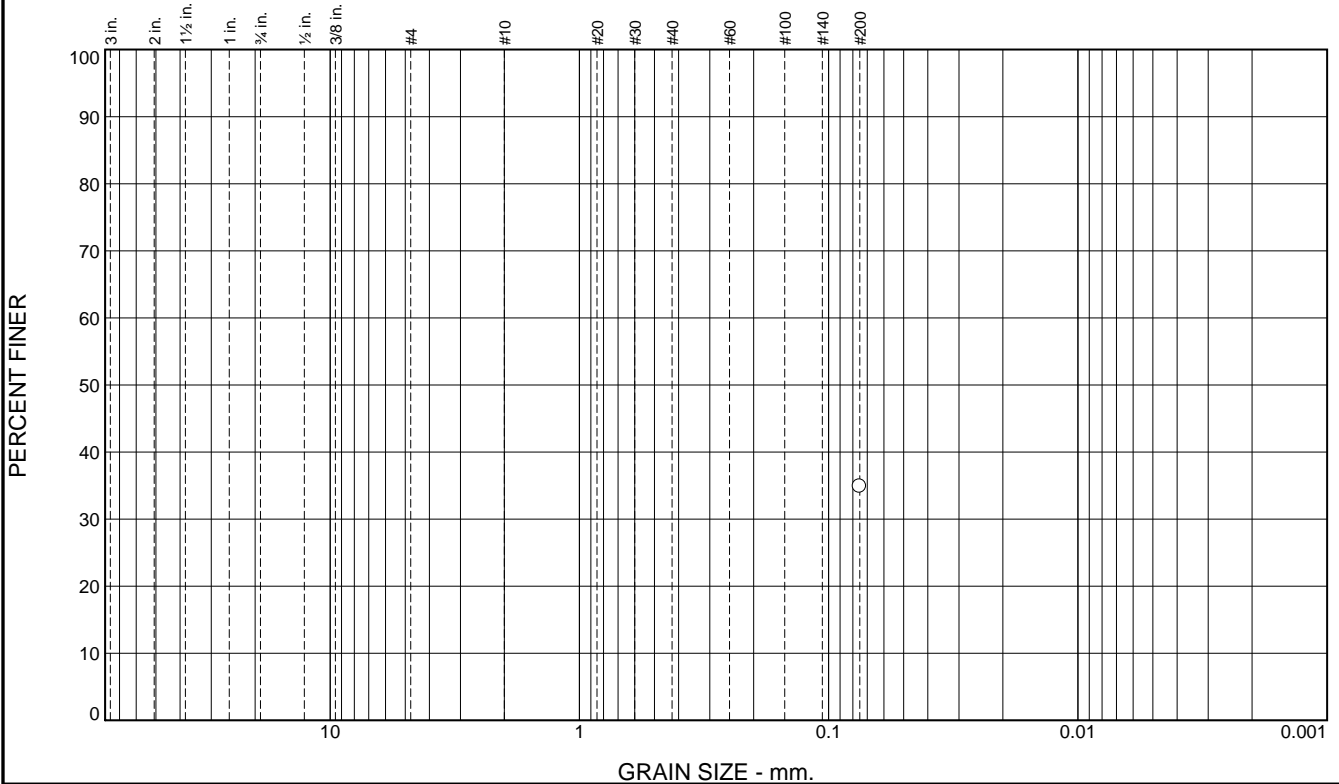
Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL

Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 34.9 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 34.9 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= D₈₅= D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B1 @ 10 Depth: 10

Date: 12-22-14



Client: Meritage Homes of California, Inc.

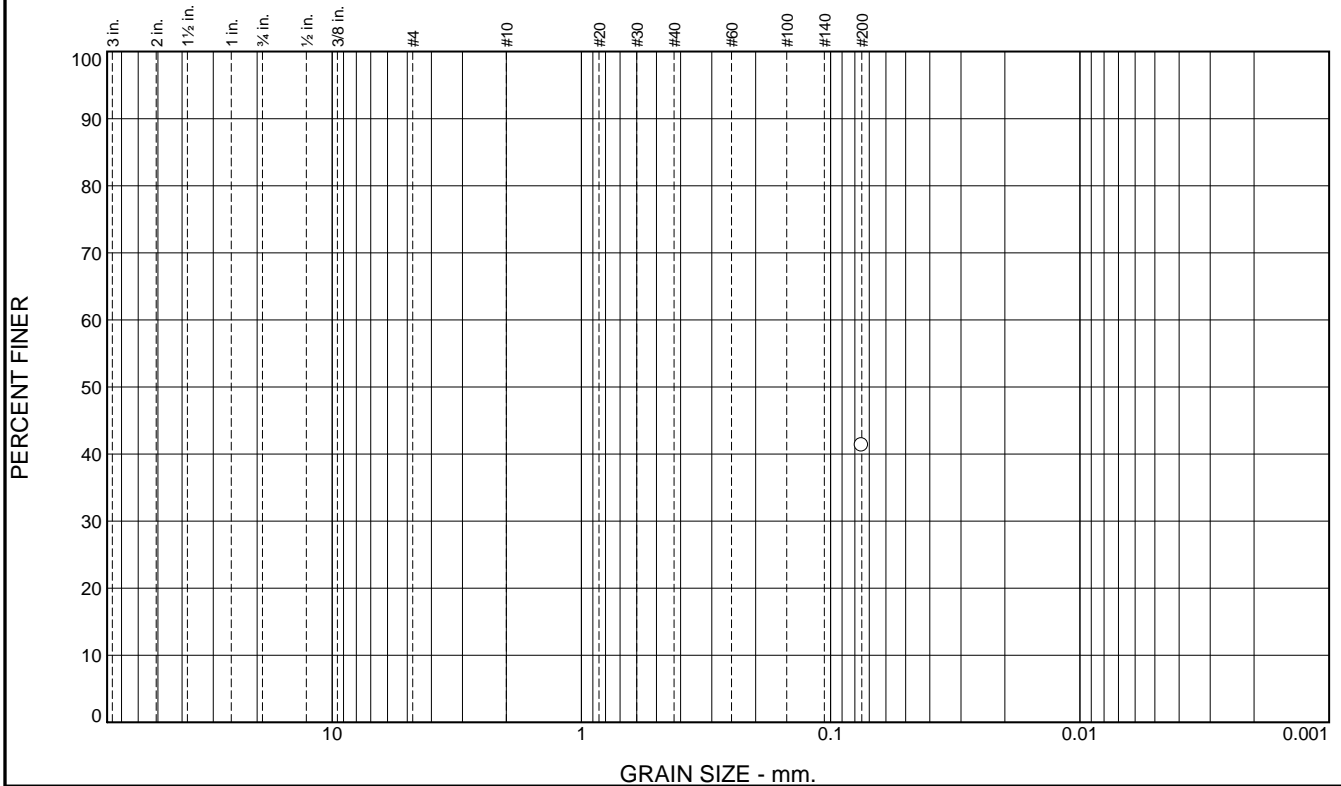
Project: Hansen ranch

Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 41.3 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 41.3 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= D₈₅= D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B1 @ 20 **Depth:** 20

Date: 12-22-14



Client: Meritage Homes of California, Inc.

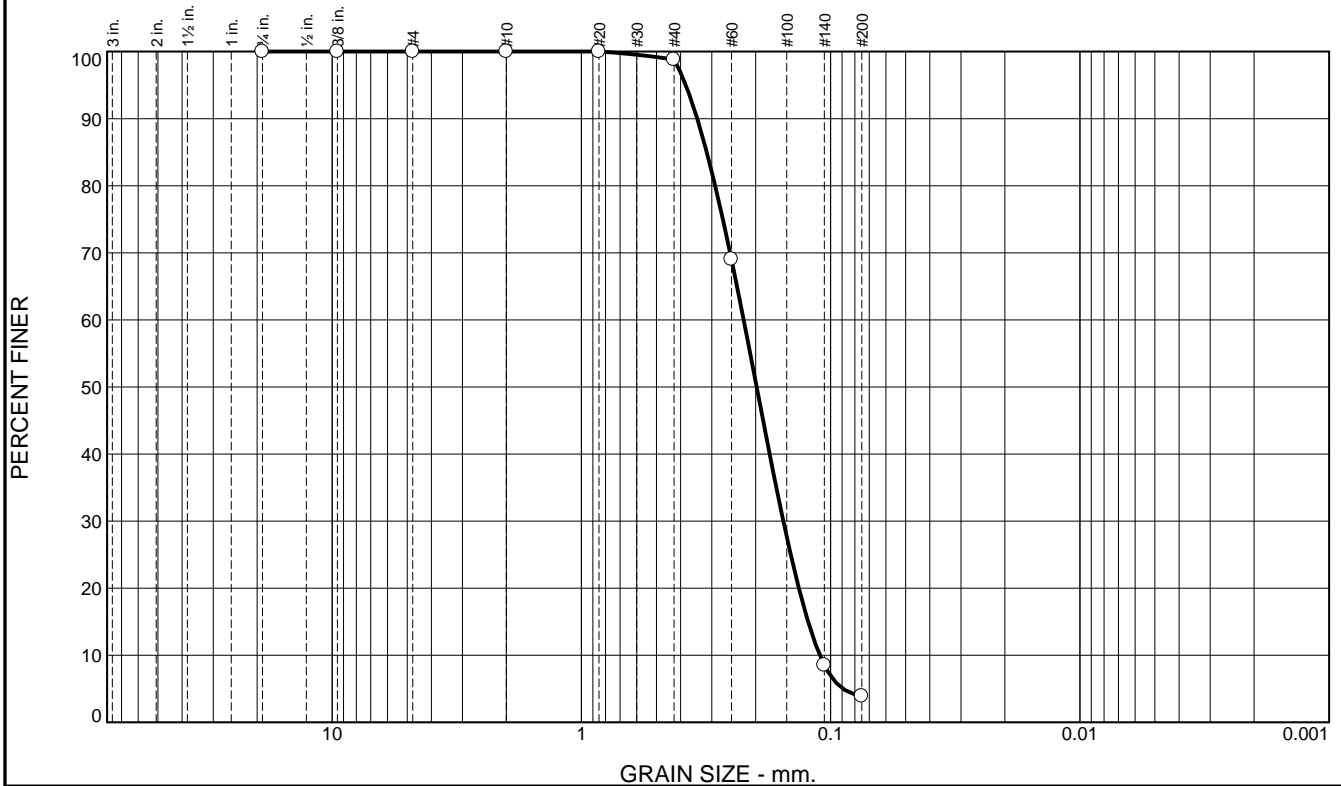
Project: Hansen ranch

Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL **Checked By:** RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 94.9 | 3.9 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4" | 100.0 | | |
| 3/8" | 100.0 | | |
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 100.0 | | |
| #40 | 98.8 | | |
| #60 | 69.0 | | |
| #140 | 8.5 | | |
| #200 | 3.9 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.3430 D₈₅= 0.3143 D₆₀= 0.2234
 D₅₀= 0.1982 D₃₀= 0.1548 D₁₅= 0.1231
 D₁₀= 0.1105 C_u= 2.02 C_c= 0.97

Classification
 USCS= SP AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B1 @ 25 Depth: 25

Date: 12-22-14



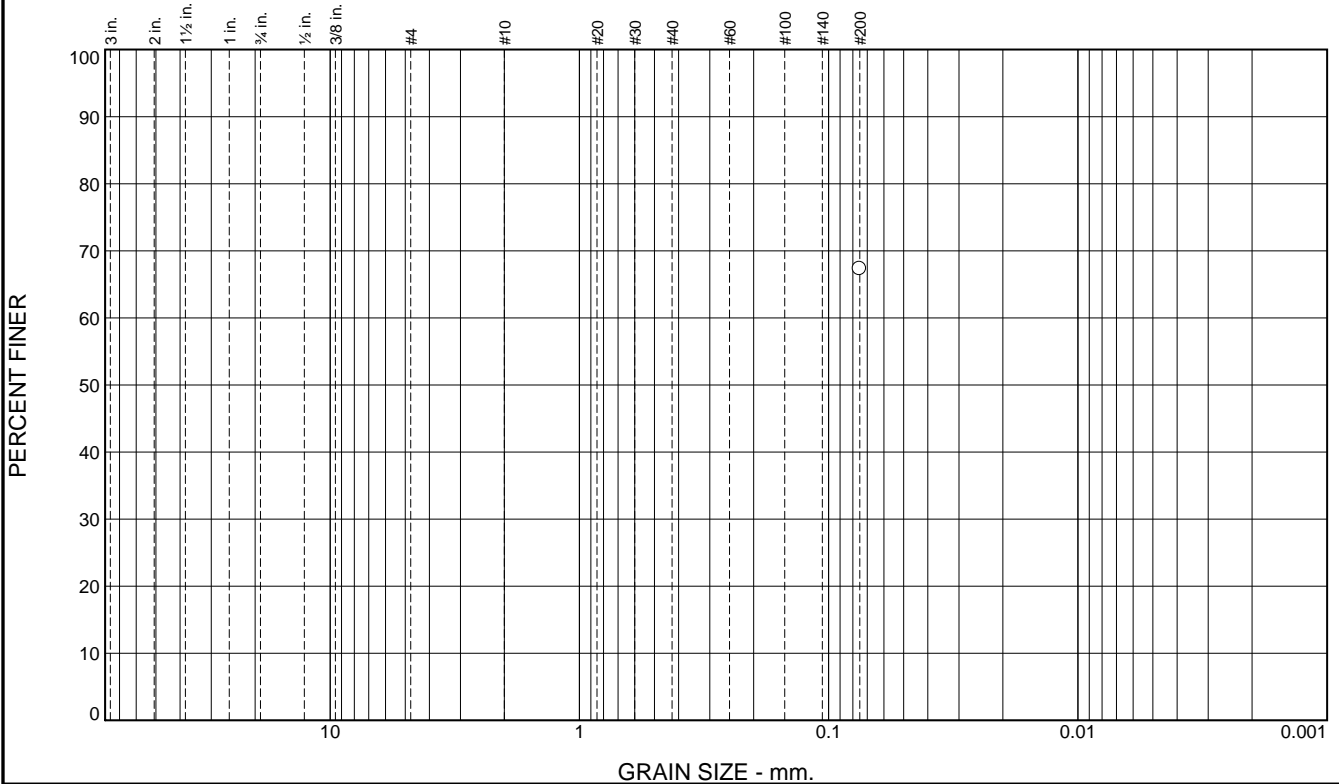
Client: Meritage Homes of California, Inc.
Project: Hansen ranch

Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 67.3 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 67.3 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= D₈₅= D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B1 @ 30 Depth: 30

Date: 12-22-14



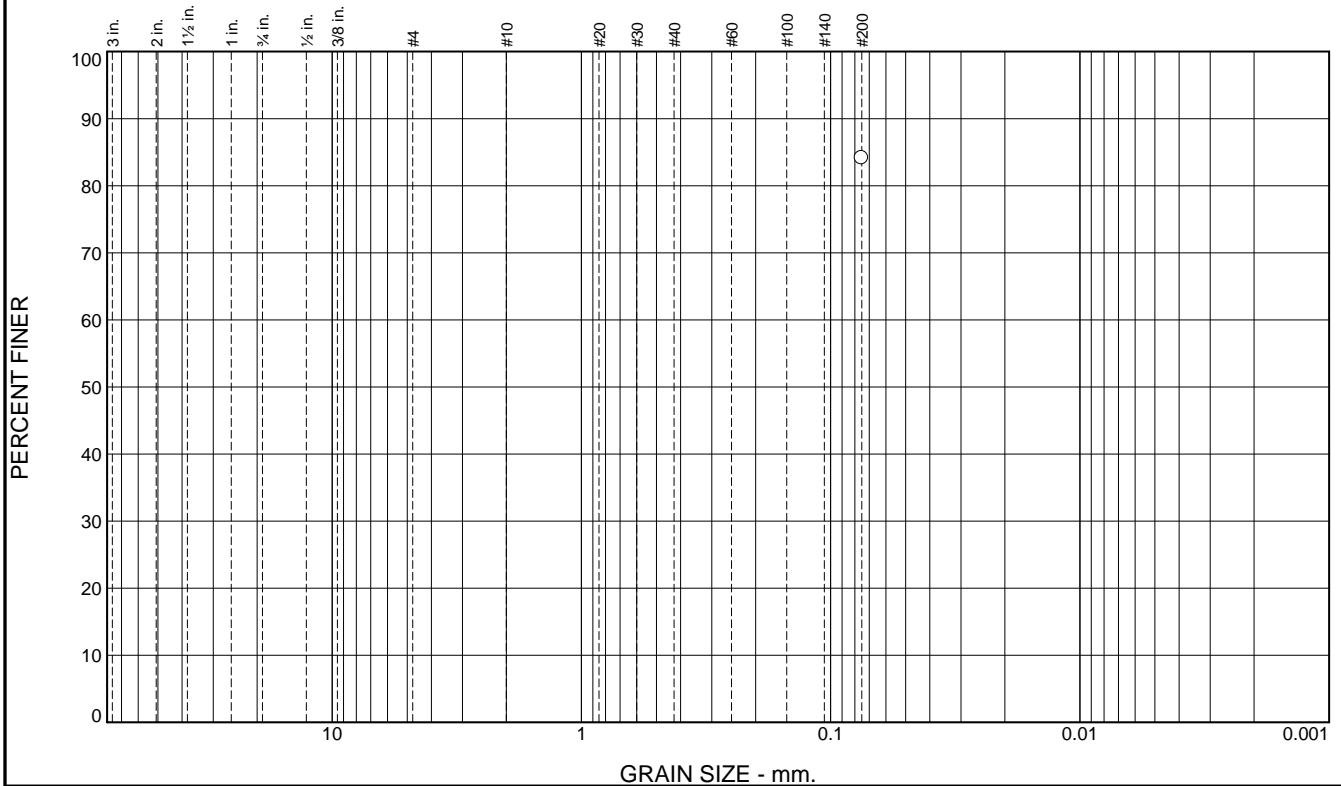
Client: Meritage Homes of California, Inc.
Project: Hansen ranch

Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 84.1 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 84.1 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= D₈₅= D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B2 @ 2

Depth: 2

Date: 12-22-14



Client: Meritage Homes of California, Inc.

Project: Hansen ranch

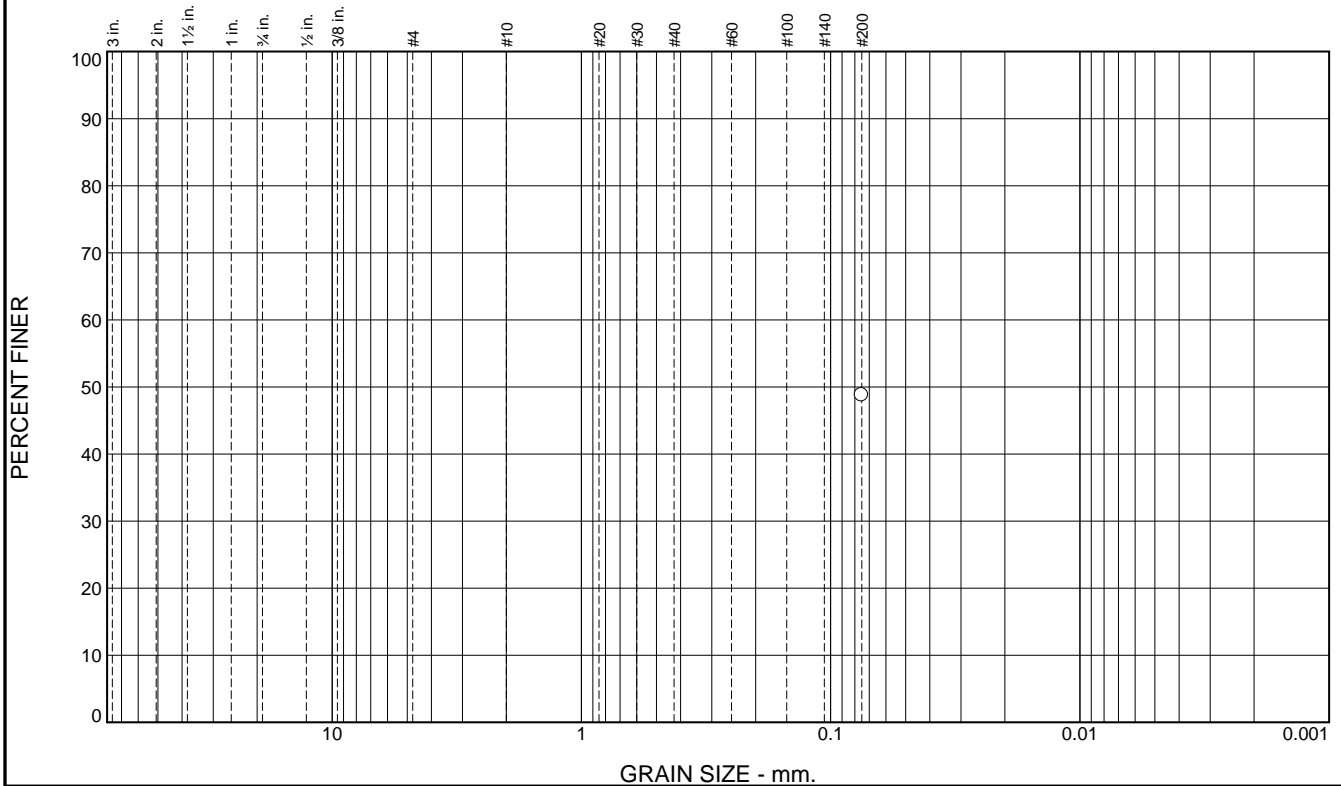
Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL

Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 48.8 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 48.8 | | |

Soil Description

See Exploratory Boring Log

Atterberg Limits

PL= LL= PI=

Coefficients

D₉₀= D₈₅= D₆₀=
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B2 @ 16

Depth: 16

Date: 12-22-14



Client: Meritage Homes of California, Inc.

Project: Hansen ranch

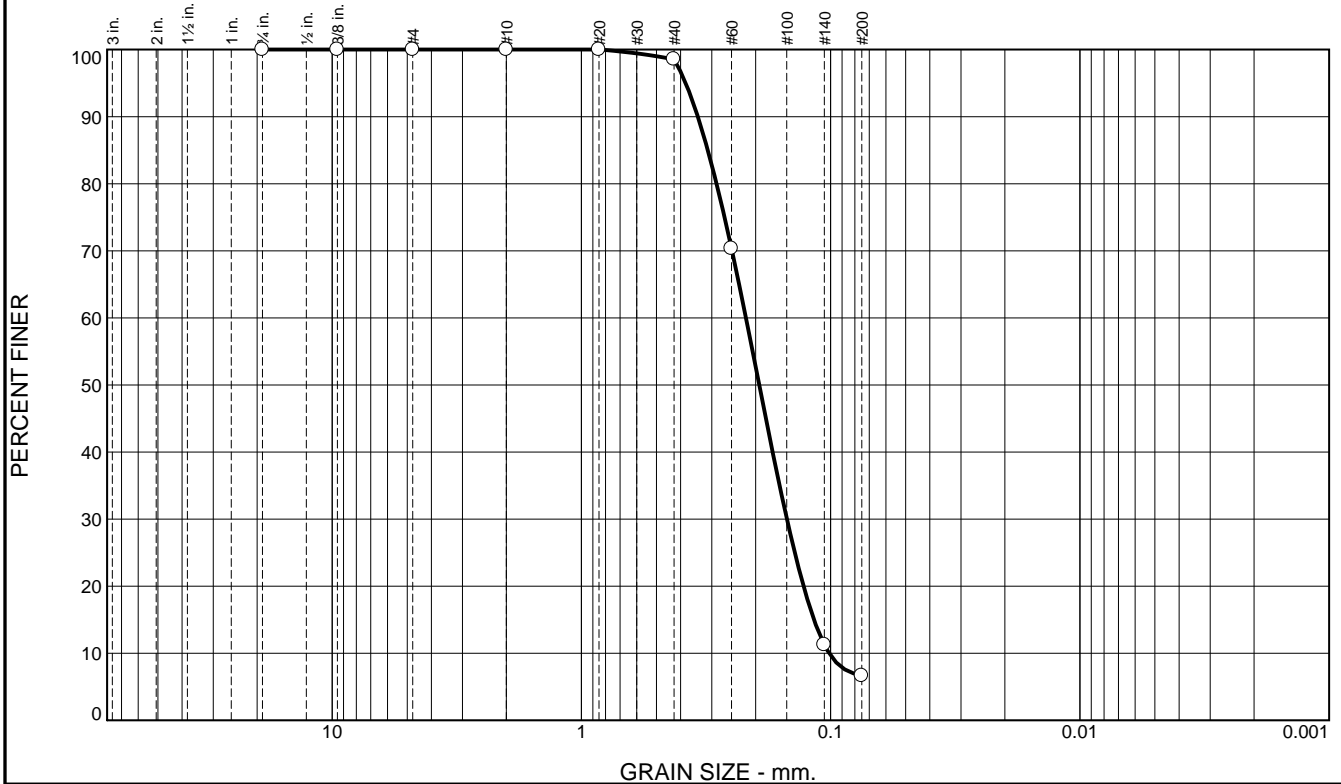
Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL

Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 91.9 | 6.6 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4" | 100.0 | | |
| 3/8" | 100.0 | | |
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 100.0 | | |
| #40 | 98.5 | | |
| #60 | 70.3 | | |
| #140 | 11.3 | | |
| #200 | 6.6 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.3412 D₈₅= 0.3113 D₆₀= 0.2188
 D₅₀= 0.1935 D₃₀= 0.1497 D₁₅= 0.1167
 D₁₀= 0.1014 C_u= 2.16 C_c= 1.01

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B2 @ 21 Depth: 21

Date: 12-22-14



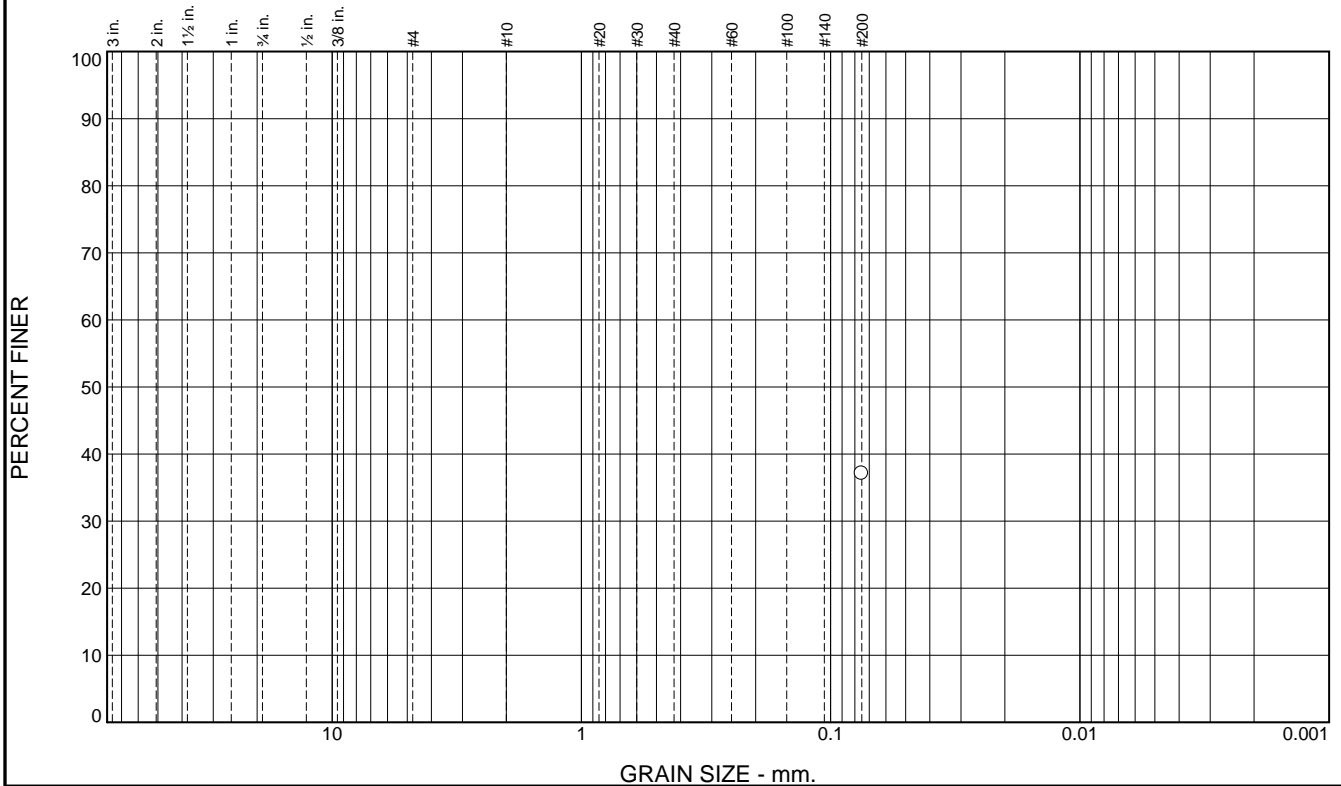
Client: Meritage Homes of California, Inc.
Project: Hansen ranch

Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 37.1 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 37.1 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= D₈₅= D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B3 @ 16 **Depth:** 16

Date: 12-22-14



Client: Meritage Homes of California, Inc.

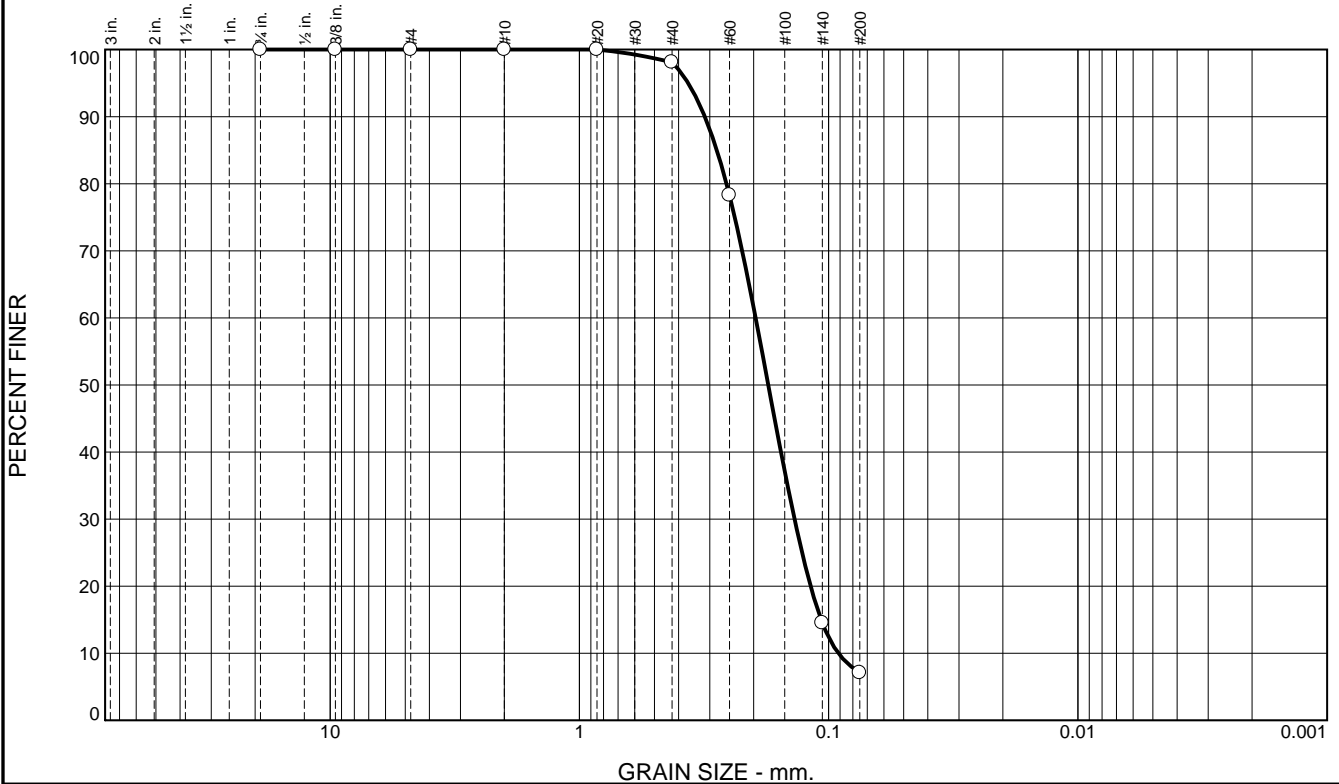
Project: Hansen ranch

Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL **Checked By:** RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 91.0 | 7.1 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4" | 100.0 | | |
| 3/8" | 100.0 | | |
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 100.0 | | |
| #40 | 98.1 | | |
| #60 | 78.3 | | |
| #140 | 14.5 | | |
| #200 | 7.1 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.3140 D₈₅= 0.2810 D₆₀= 0.1964
 D₅₀= 0.1747 D₃₀= 0.1370 D₁₅= 0.1072
 D₁₀= 0.0915 C_u= 2.15 C_c= 1.04

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B4 @ 2.5

Depth: 2.5

Date: 12-22-14



Client: Meritage Homes of California, Inc.

Project: Hansen ranch

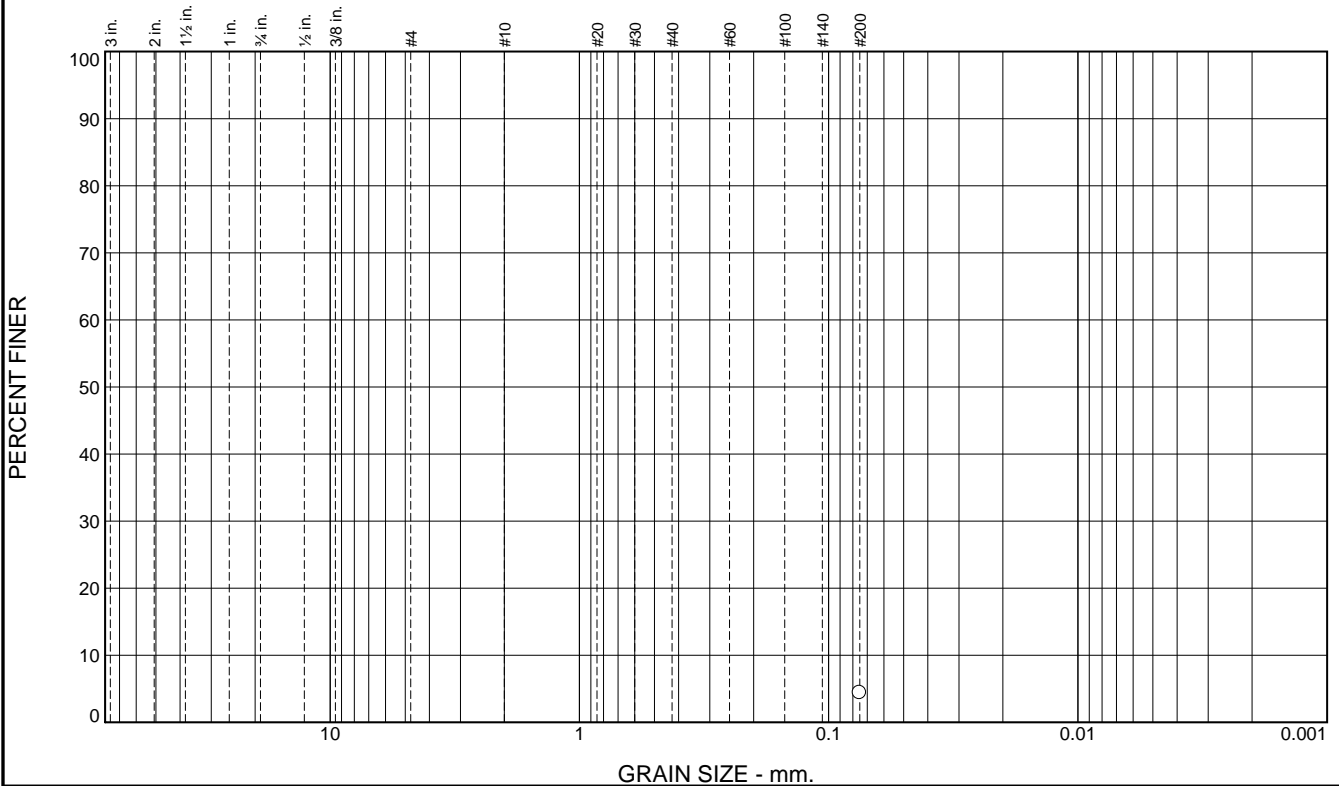
Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL

Checked By: RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| | | | | | | 4.4 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| #200 | 4.4 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= D₈₅= D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B4 @ 10 **Depth:** 10

Date: 12-22-14



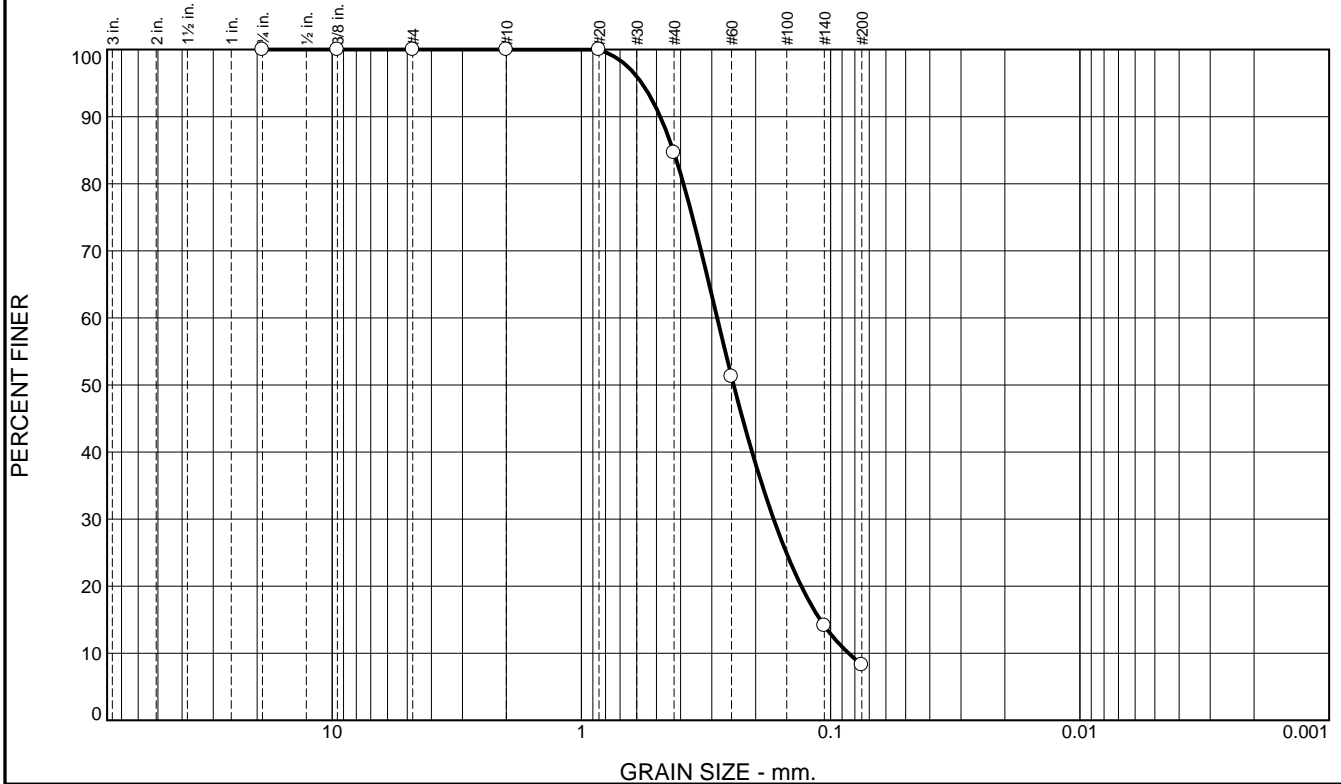
Client: Meritage Homes of California, Inc.
Project: Hansen ranch

Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL **Checked By:** RWS

Particle Size Distribution Report



| % +75mm | % Gravel | | % Sand | | | % Fines | |
|---------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.0 | 15.4 | 76.4 | 8.2 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3/4" | 100.0 | | |
| 3/8" | 100.0 | | |
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 100.0 | | |
| #40 | 84.6 | | |
| #60 | 51.2 | | |
| #140 | 14.1 | | |
| #200 | 8.2 | | |

Soil Description
See Exploratory Boring Log

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 0.4825 D₈₅= 0.4283 D₆₀= 0.2854
 D₅₀= 0.2451 D₃₀= 0.1693 D₁₅= 0.1101
 D₁₀= 0.0847 C_u= 3.37 C_c= 1.19

Classification
 USCS= AASHTO=

Remarks

* (no specification provided)

Sample Number: 1-B5 @ 16 Depth: 16

Date: 12-22-14



Client: Meritage Homes of California, Inc.
Project: Hansen ranch

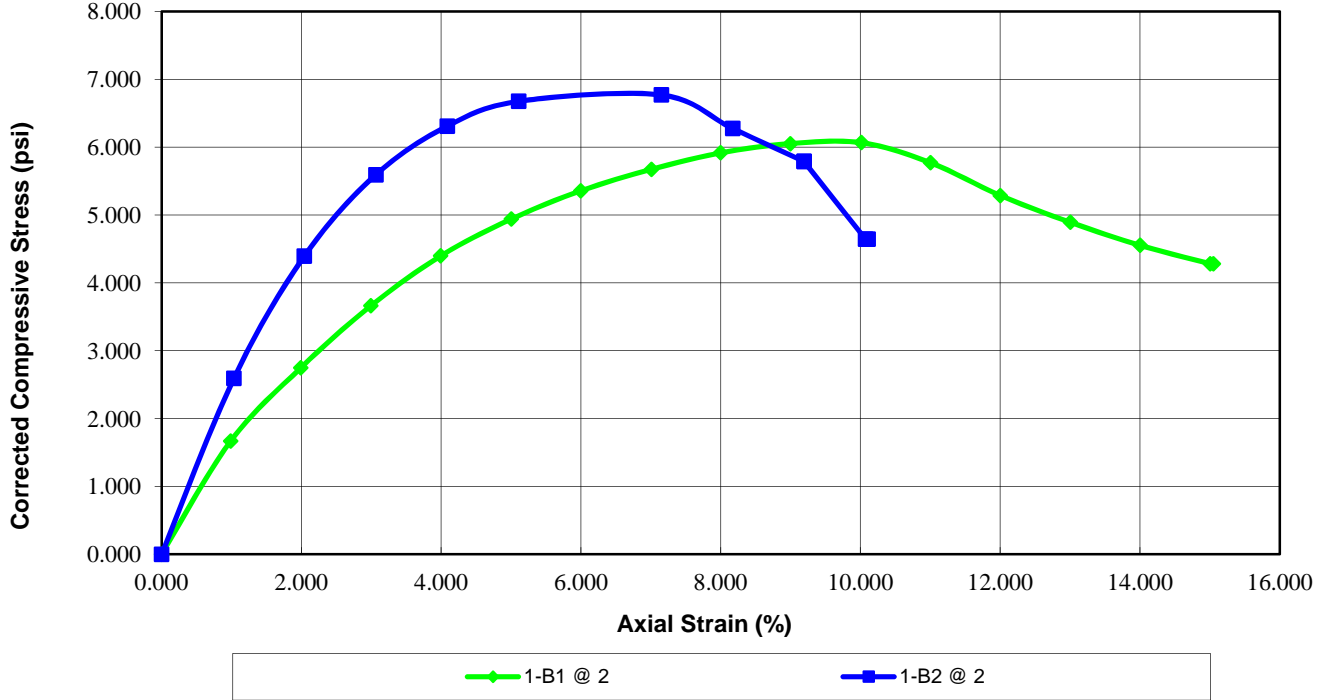
Project No: 11788.000.000 Ph 002

Figure

Tested By: KEL Checked By: RWS

UNCONFINED COMPRESSION TEST REPORT (ASTM D2166)

Compressive Stress Axial Strain Curve(s)



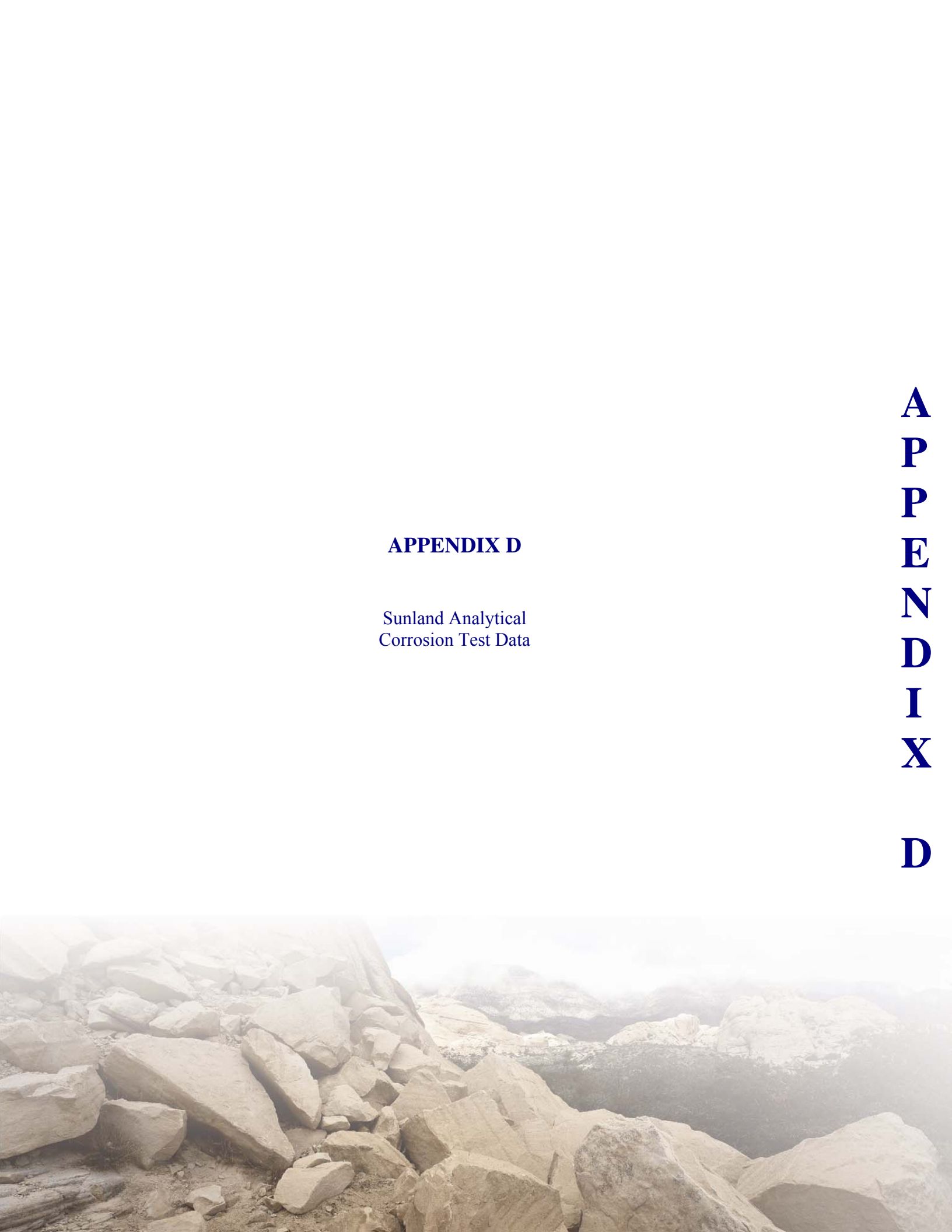
| BEFORE TEST | SPECIMEN | |
|--------------------------|----------|----------|
| | 1-B1 @ 2 | 1-B2 @ 2 |
| Moisture Content (%) | 25.1 | 23.2 |
| Dry Density (pcf) | 96.5 | 97.6 |
| Saturation (%) | 93.16 | 88.46 |
| Void Ratio | 0.71 | 0.69 |
| Diameter (in) | 2.385 | 2.385 |
| Height (in) | 5.000 | 4.900 |
| Height-To-Diameter Ratio | 2.096 | 2.055 |

| TEST DATA | | |
|---------------------------------------|---------|----------|
| Unconfined Compressive Strength (psf) | 873.635 | 1021.853 |
| Undrained Shear Strength (psf) | 436.817 | 510.926 |
| Strain Rate (in./min.) | 0.05 | 0.05 |
| Specific Gravity | 2.65 | 2.65 |
| Strain at Failure (%) | 10.0 | 2.92 |
| Liquid Limit | | |
| Plastic Limit | | |
| Test Remarks | | |

| SPECIMEN | DESCRIPTION |
|----------|----------------------------|
| 1-B1 @ 2 | See Exploratory Boring Log |
| 1-B2 @ 2 | See Exploratory Boring Log |

| | |
|---|------------------------------|
| PROJECT NAME: Hanson Ranch | Test Date: 12/21/2014 |
| PROJECT NO: 11788.000.000 | Tested By: KEL |
| CLIENT: Meritage Homes of California, Inc. | Reviewed By: RWS |
| LOCATION: 1-B1, 1-B2 | |
| PHASE NO: 2 | |





APPENDIX D

Sunland Analytical
Corrosion Test Data

**A
P
P
E
N
D
I
X

D**



Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 12/24/2014
Date Submitted 12/19/2014

To: Taylor Strack
Engeo Inc.
580 No. Wilma Ave, Suite A
Ripon, CA 95366

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 11788-BRENTWOOD Site ID : 1-B2 @ 1.5 FT.
Thank you for your business.

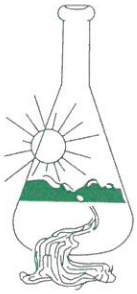
* For future reference to this analysis please use SUN # 68511-142330.

EVALUATION FOR SOIL CORROSION

| | | | |
|---|---------------------|-----------|--|
| Soil pH | 6.81 | | |
| Moisture | 14.7 % | | |
| Minimum Resistivity | 1.66 ohm-cm (x1000) | | |
| Chloride | 9.5 ppm | 0.00095 % | |
| Sulfate | 2.4 ppm | 0.00024 % | |
| Redox Potential | (+) 240 mv | | |
| Sulfate Reducing Bacteria Presence - NEGATIVE | | | |

METHODS

pH and Min.Resistivity CA DOT Test #643 Mod.(Sm.Cell)
Sulfate CA DOT Test #417, Chloride CA DOT Test #422
Redox Potential ASTM D1498m, Sulfate Reducing Bacteria AWWA C105-72



Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 12/24/2014
Date Submitted 12/19/2014

To: Taylor Strack
Engeo Inc.
580 No. Wilma Ave, Suite A
Ripon, CA 95366

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following location:
Location : 11788-BRENTWOOD Site ID : 1-B4 @ 2 FT.
Thank you for your business.

* For future reference to this analysis please use SUN # 68511-142329.

EVALUATION FOR SOIL CORROSION

| | | | |
|---|---------|----------------|-----------|
| Soil pH | 6.32 | | |
| Moisture | 5.9 | % | |
| Minimum Resistivity | 20.64 | ohm-cm (x1000) | |
| Chloride | 7.2 | ppm | 0.00072 % |
| Sulfate | 1.2 | ppm | 0.00012 % |
| Redox Potential | (+) 232 | mv | |
| Sulfate Reducing Bacteria Presence - NEGATIVE | | | |

METHODS

pH and Min. Resistivity CA DOT Test #643 Mod. (Sm. Cell)
Sulfate CA DOT Test #417, Chloride CA DOT Test #422
Redox Potential ASTM D1498m, Sulfate Reducing Bacteria AWWA C105-72

APPENDIX D

PHASE I ENVIRONMENTAL SITE ASSESSMENT



HANSON LANE
BRENTWOOD, CALIFORNIA

PHASE I ENVIRONMENTAL SITE ASSESSMENT

DRAFT

SUBMITTED TO
Mr. Paul Manyisha
MLC Holdings, Inc.
2603 Camino Ramon, Suite 140
San Ramon, CA 94583

PREPARED BY
ENGEO Incorporated

October 27, 2020

PROJECT NO.
11788.002.001

Project No.
11788.002.001

October 27, 2020

Mr. Paul Manyisha
MLC Holdings, Inc.
2603 Camino Ramon, Suite 140
San Ramon, CA 94583

Subject: Hanson Lane
251 Hanson Lane
Brentwood, California

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Manyisha:

ENGEO is pleased to present our phase I environmental site assessment of the subject property (Property), located in Brentwood, California. The attached report includes a description of the site assessment activities, along with ENGEO's findings, opinions, and conclusions regarding the Property.

ENGEO has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the Property, and has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 and the American Standard Testing Method (ASTM) Practice E1527-13. We declare that, to the best of our professional knowledge and belief, the responsible charge for this study meets the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and ASTM E1527-13.

We are pleased to be of service to you on this project. If you have any questions concerning the contents of our report, please contact us.

Sincerely,

ENGEO Incorporated

Adrianna Lundberg, EIT
aml/sm/jf

Shawn Munger, CHG

TABLE OF CONTENTS

LETTER OF TRANSMITTAL

| | |
|--|-----------|
| EXECUTIVE SUMMARY | 1 |
| 1.0 INTRODUCTION | 2 |
| 1.1 PURPOSE OF PHASE I ENVIRONMENTAL SITE ASSESSMENT | 2 |
| 1.2 DETAILED SCOPE OF SERVICES | 2 |
| 1.3 SITE LOCATION AND DESCRIPTION | 2 |
| 1.4 CURRENT USE OF PROPERTY AND ADJOINING PROPERTIES | 2 |
| 1.5 SITE AND VICINITY CHARACTERISTICS | 3 |
| 2.0 PREVIOUS ENVIRONMENTAL REPORTS..... | 3 |
| 3.0 RECORDS REVIEW | 5 |
| 3.1 PROPERTY RECORDS | 5 |
| 3.1.1 Title Report/Ownership..... | 5 |
| 3.2 HISTORICAL RECORD SOURCES..... | 5 |
| 3.2.1 Historical Topographic Maps/Aerial Photographs/Sanborn Maps | 5 |
| 3.2.2 City Directory | 6 |
| 3.3 ENVIRONMENTAL RECORD SOURCES..... | 6 |
| 3.3.1 Environmental Records..... | 6 |
| 3.3.1.1 Subject Property | 6 |
| 3.3.1.2 Other Properties..... | 7 |
| 3.4 REGULATORY AGENCY FILES AND RECORDS..... | 8 |
| 3.5 INDOOR AIR QUALITY | 9 |
| 4.0 SITE RECONNAISSANCE..... | 9 |
| 4.1 METHODOLOGY | 9 |
| 4.2 SITE OBSERVATIONS | 9 |
| 4.3 ASBESTOS, LEAD, AND PCB-CONTAINING MATERIALS..... | 11 |
| 5.0 INTERVIEWS | 11 |
| 6.0 FINDINGS AND CONCLUSIONS | 11 |
| 7.0 LIMITATIONS..... | 12 |
| 7.1 SIGNIFICANT ASSUMPTIONS OR DEVIATIONS FROM ASTM STANDARD PRACTICE | 12 |
| 7.2 OPINIONS AND DATA GAPS | 12 |
| 7.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT..... | 12 |
| 7.4 SPECIAL TERMS AND CONDITIONS..... | 13 |

REFERENCES

TABLE OF CONTENTS (Continued)

FIGURES

APPENDIX A – Environmental Data Resources, Inc., Radius Map Report

APPENDIX B – Old Republic Title Company, Preliminary Title Report (2016)

APPENDIX C – Environmental Data Resources, Inc., Historical Topographic Map Report

APPENDIX D – Environmental Data Resources, Inc., Aerial Photo Decade Package

APPENDIX E – Environmental Data Resources, Inc., Sanborn Map Report

APPENDIX F – Environmental Data Resources, Inc., City Directory

APPENDIX G – Qualifications of Environmental Professional

DRAFT

EXECUTIVE SUMMARY

ENGEO conducted a phase I environmental site assessment for the property located at 251 Hanson Lane in Brentwood, California (Property). The Property is approximately 20 acres in area and is identified by Assessor's Parcel Number (APN) 018-230-034.

The Property currently consists of fallow fields, with several areas of miscellaneous and unused farm equipment. A concrete pad and possible remnant groundwater well are located in the southwestern portion of the Property, near the location of a former structure. Review of historical records indicates that the Property has been cultivated with orchards and/or row crops since at least 1939, and formerly had several structures located in the southwestern portion of the Property. Permits indicate that three structures (a 1,360-square-foot building, a detached garage, and a single-family home) were approved for demolition in June 2011.

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps and physical setting sources. A reconnaissance of the Property was conducted to review site use and current conditions to check for the storage, use, production or disposal of hazardous or potentially hazardous materials and interviews with persons knowledgeable about current and past site use.

The site reconnaissance and records review did not find documentation or physical evidence of soil, soil gas, or groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies found no documentation of hazardous materials violations or discharge on the Property and did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

Based on the findings of this assessment, no Recognized Environmental Conditions (RECs), no historical RECs, and no controlled RECs were identified for the Property.

ENGEO has performed a phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-13 and the standards and practices of the All Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312). It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC. Data gaps identified during this process do not affect the conclusions as to the presence or lack of presence of RECs at the Property. The following data gaps were identified:

- We did not receive a current preliminary title report.
- We did not receive responses from the City of Brentwood or Contra Costa County Department of Environmental Health.
- We did not receive current environmental questionnaires.

This assessment has revealed no evidence of RECs in connection with the Property, and the Property is suitable for residential development. ENGEO recommends no further environmental studies at this time.

1.0 INTRODUCTION

1.1 PURPOSE OF PHASE I ENVIRONMENTAL SITE ASSESSMENT

This assessment was performed at the request of MLC Holdings, Inc. for the purpose of environmental due diligence during property acquisition. The objective of this phase I environmental site assessment is to identify Recognized Environmental Conditions (RECs) associated with the Property. As defined in the ASTM Standard Practice E1527-13, an REC is “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.”

1.2 DETAILED SCOPE OF SERVICES

The scope of services performed included the following.

- A review of previous environmental reports prepared for the Property.
- A review of publicly available and practicably reviewable standard local, state, tribal, and federal environmental record sources.
- A review of publicly available and practicably reviewable standard historical sources, aerial photographs, fire insurance maps and physical setting sources.
- A reconnaissance of the Property to review site use and current conditions. The reconnaissance was conducted to check for the storage, use, production or disposal of hazardous or potentially hazardous materials.
- Written and/or oral interviews with owners/occupants and public sector officials.
- Preparation of this report with our findings, opinions, and conclusions.

1.3 SITE LOCATION AND DESCRIPTION

ENGEO conducted a phase I environmental site assessment for the Property located at 251 Hanson Lane in Brentwood, California (Figures 1 and 2). The approximately 20-acre Property is identified as APN 018-230-034 (Figure 3) and is currently occupied by fallow agricultural land.

1.4 CURRENT USE OF PROPERTY AND ADJOINING PROPERTIES

The Property is currently undeveloped, vacant land. Previously, the Property appeared to be cultivated with row crops/orchards. Surrounding properties appear to be developed with residential homes in the north, west, and south-southwest and commercial/light industrial to the east and south-east. The Property is generally bound by Lone Tree Way to the north, Marsh Creek to the east, Hanson Lane to the south, and residential homes to the west.

The parcels to the north consist of single-family homes, while the parcels to the south consist of single-family homes and commercial land. The parcels to the west consist of a completed residential development and older homes, while the parcel to the east consists of the City of

Brentwood Wastewater Treatment Plant. Water production well “Well 8”, owned by the City of Brentwood, is located to the south of the Property across Hanson Lane.

1.5 SITE AND VICINITY CHARACTERISTICS

According to published topographic maps, the Property ranges in elevation from approximately 50 feet above mean sea level (msl) in the west to approximately 60 feet above msl to the northwest and southwest. Review of the Geologic Map of Antioch South and Brentwood Quadrangle found that the Property is underlain by Quaternary-aged alluvial deposits – Qd (sand dunes) to the northwest and Ql (alluvial loam of valley areas).

Geocheck – Physical Setting Source Summary of the Environmental Data Resources, Inc. (EDR) report (Appendix A) indicated six Federal United States Geological Survey (USGS) and 16 State wells located within 1 mile of the Property. Three wells reported depth-to-water measurements, ranging from 42.0 feet below surface to the north-northwest of the Property (reading obtained in 1978), to 28 feet below surface to the southwest (reading obtained in 1973). The Physical Setting Source Summary did not provide hydrogeologic information for use as an indicator of groundwater flow direction in the immediate area.

We reviewed the Department of Water Resources On-line Water Data Library for depth to water in the vicinity of the Property. The website shows three wells within 1 mile of the Property, with reported depth-to-water measurements ranging from 56.5 feet below surface to the west, to 13.6 feet below surface to the east.

We reviewed EnviroStor, a website maintained by the State of California Department of Toxic Substances Control, and GeoTracker, a website maintained by the State of California Water Resources Control Board, for nearby facilities with records that include depth to groundwater measurements. One site, “Sand Creek Elementary School”, is located approximately 0.66 mile south of the Property. A preliminary endangerment assessment was performed by Padre Associates, Inc. in December 2005, which noted that “groundwater was encountered at approximately 13 to 14 feet below ground surface” for the site. The site-specific depth to groundwater and direction of groundwater flow was not determined as part of this assessment. Fluctuations in groundwater levels may occur seasonally and over a period of years due to variations in precipitation, temperature, irrigation and other factors.

We reviewed the Department of Conservation, Geologic Energy Management (CalGEM), formerly the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), website and map database to determine if any historic oil and/or gas wells were located within the Property. Twenty-eight oil wells, each with a status of “plugged”, were mapped within 1 mile of the Property – no wells were mapped within the Property.

2.0 PREVIOUS ENVIRONMENTAL REPORTS

Purcell, Rhoades & Associates; Phase I Environmental Site Assessment and Limited Phase II Environmental Site Assessment; 251 Hanson Lane, APN 018-230-034, Brentwood, California; May 22, 2006; Purcell Project No. 2-301/7250-01.

The modified phase I environmental site assessment (ESA) performed by Purcell, Rhoades and Associates (PRA) indicated that the Property had been used for agricultural purposes, including row crops, through at least 2004 and that pesticides may have been applied at the subject

Property. The report also indicated that a natural gas exploratory well had been drilled east of the Property, which was sealed, and inspected and approved by DOGGR (now CalGEM) on December 13, 1983.

To assess for potential impacts from the former agricultural use, PRA collected 63 soil samples (22 composited samples), which were analyzed for lead, arsenic, and organochlorine pesticides (OCPs). PRA reported that the concentrations of OCPs and lead did not exceed USEPA Preliminary Remediation Goals (PRGs) in effect at the time of reporting, though arsenic concentrations reportedly exceeded the PRG for arsenic. PRA noted that natural background levels of arsenic are commonly well in excess of the listed screening level, and that “the background level of arsenic in Contra Costa County is 6 to 12 ppm [parts per million]”. Eight of the 22 samples exceeded the Contra Costa County background level of 12 ppm, with reported exceeding concentrations ranging from 14.7 to 20.7 ppm.

PRA also noted that test results (discrete testing of the samples that comprise the composite sample) fall below the maximum concentration allowed by the County (though results of the discrete analysis were not summarized, nor were the lab reports for the discrete analysis provided). PRA concluded that “containers of oil, grease, and insecticides observed in the shed must be removed and shipped to a proper disposal facility,” but provided no other recommendations.

ENGEO; Draft Modified Phase I Environmental Assessment, Hanson Ranch, 251 Hanson Lane, Brentwood, California; December 15, 2014; Project No. 11788.000.000.

ENGEO performed a modified phase I ESA for the Property identified as APN 018-230-034. A review of historical records indicated the Property had been used for agricultural purposes since at least 1939. To address potential agriculture impacts, soil samples were collected from 32 locations across the Property from approximately 0 to 6 inches below the ground surface. Laboratory analysis of the soil samples included eight 4-point composite samples analyzed for organochlorine pesticides (OCPs) as well as eight discrete samples analyzed for arsenic.

Several pesticides were detected; however, the reported pesticide concentrations are below the applicable screening levels for residential land use. The reported arsenic concentrations for the Property range from 1.4 mg/kg to 6.6 mg/kg, which are indicative of background concentrations for Brentwood. ENGEO concluded that there were no Recognized Environmental Conditions (RECs) and no historical RECs identified for the Property.

ENGEO; Phase I Environmental Site Assessment, Hanson Ranch, 251 Hanson Lane, Brentwood, California; July 21, 2016; ENGEO Project No. 11788.001.000.

ENGEO’s phase I ESA described the Property as currently fallow agricultural land, with historical agricultural uses, including orchards and row crops, since at least 1939. The report referenced the previous ENGEO 2014 modified phase I ESA and the results of the soil sampling. ENGEO identified no Recognized Environmental Conditions (RECs), no historical RECs, and no controlled RECs for the Property.

3.0 RECORDS REVIEW

3.1 PROPERTY RECORDS

3.1.1 Title Report/Ownership

The Title Report lists recorded land title detail, ownership fees, leases, land contracts, easements, liens, deficiencies, and other encumbrances attached to or recorded against a subject property. Laws and regulations pertaining to land trusts vary from state to state and the detail of information presented in a Title Report can vary greatly by jurisdiction. As a result, ENGEO utilizes a Title Report, when provided to us, as a supplement to other historical record sources.

A current Preliminary Title Report (PTR) was not provided for the Property. However, a PTR prepared by Old Republic Title Company, dated July 12, 2016, was provided for our review. The Property title was vested in “Edward J. Hanson, Successor Trustee of the Henry Hanson Family Trust dated October 3, 1994.” No references to environmental liens, deed restrictions or other potential environmental issues were noted. Though not an environmental concern, the report does describe an oil, gas, and mineral lease underlying the Property, but does not allow entry to the surface of the Property. The 2016 PTR is presented in Appendix B.

In addition, supplemental property tax information was provided for the year 2019, indicating that the primary Property owner was “Edward Hanson (TRE)” for tax year 2019.

3.2 HISTORICAL RECORD SOURCES

The purpose of the historical record review is to develop a history of the previous uses or occupancies of the Property and surrounding area in order to identify those uses or occupancies that are likely to have led to recognized environmental conditions on the Property.

3.2.1 Historical Topographic Maps/Aerial Photographs/Sanborn Maps

Historical USGS topographic maps, aerial photographs, and Sanborn Fire insurance maps were reviewed to determine if discernible changes pertaining to the Property had been recorded. EDR provided the following maps and photographs, presented in Appendices C, D, and E.

TABLE 3.2.1-1: Historical Review Summary

| HISTORIC MAP/PHOTOGRAPH | YEARS |
|-------------------------|--|
| Topographic Maps | 1914, 1916, 1940, 1943, 1954, 1968, 1978, 2012 |
| Aerial Photographs | 1939, 1958, 1963, 1966, 1979, 1982, 1993, 1998, 2006, 2009, 2012, 2016 |
| Sanborn Maps | N/A |

The 1914 and 1916 maps depict one structure in the southwest Property corner, and show Marsh Creek in the eastern Property boundary. Sporadic structures are mapped in the vicinity of the Property.

The 1939 through 1958 photographs show an orchard along the western portion of the Property, with possible farming in the central and eastern portions of the Property. Three apparent residential structures are visible in the southwestern corner of the Property. The surrounding land

appears as orchard and agricultural land. The 1954 topographic map depicts a Sewage Disposal (City of Brentwood) to the east of the Property, across Marsh Creek. Several ponds are located to the east of the Property beginning in 1958.

By 1963, portions of the orchard have been replaced with row crops within the Property, though orchards are still present along the western portion. Several smaller structures, possibly sheds, are located near the residential structures in the southwest corner of the Property. Several additional ponds are visible to the east of the Property in 1958, associated with the sewage disposal facility.

Beginning in 1966, Marsh Creek had been re-aligned, parallel to the eastern Property boundary. The orchard is still present, though a portion of the orchard has been removed and much of the Property appears to be agricultural land. Two structures are present in the southwest corner of the Property. The Property remains largely unchanged from 1966 through 1998, with the exception of the text "52" depicted in the southwest corner of the Property in the 1978 map. The Sewage Disposal facility (located to the east) and residential development surrounding the Property continues to expand over the years.

From 2006 through 2012, the Property contains small areas of orchard in the northwest and southwest of the Property, with an apparently fallow field across much of the Property. Two structures are visible in the southwest corner of the Property until 2012, when one structure remains. Residential communities are located to the west, south, and southwest of the Property. The sewage disposal facility has expanded with additional ponds and structures. The Property remain.

By 2016, the orchard has been removed, with the exception of trees present in the southwestern corner of the Property. The Property generally appears as a fallow field and no structures are visible.

3.2.2 [City Directory](#)

City Directories, published since the 18th century for major towns and cities, list the name of the resident or business associated with each address. The Property, 251 Hanson Lane, is associated with a residential occupant, Henry A Hanson, from 2000 to 2014, and did not appear in other search years from 1954 through 2017. Adjacent addresses were largely associated with residential occupants, with the exception of Williams Septic Tank Sewer & Rooter identified at 61 Hanson Lane from 2014 to 2017. The city directory search conducted by EDR is located in Appendix F.

3.3 ENVIRONMENTAL RECORD SOURCES

EDR performed a search of federal, tribal, state, and local databases regarding the Property and nearby properties. Details regarding the databases searched by EDR are provided in Appendix A. A list of the facilities documented by EDR within the approximate minimum search distance of the Property is provided below.

3.3.1 [Environmental Records](#)

3.3.1.1 [Subject Property](#)

The Property is not listed on Environmental Record source databases.

3.3.1.2 Other Properties

The following databases include facilities listed within the appropriate ASTM search distances of the Property on Environmental Records sources.

TABLE 3.3.1.2-1

| FACILITY | STREET | DATABASES |
|--|-------------------------|---|
| CITY OF BRENTWOOD WELL #8 | 228 HANSON LN A | CONTRA COSTA CO. SITE LIST |
| CITY OF BRENTWOOD WELL #7 | 228 HANSON LN B | CONTRA COSTA CO. SITE LIST |
| ANTIOCH BUILDING MATERIALS | 2170 ELKINS WAY | AST,CERS, TANKS, EMI, NPDES, CONTRA COSTA CO. SITE, LIST, CIWQS, CERS |
| KITCHEN MAKE-OVERS | 2145 ELKINS WAY, STE. H | RCRA NONGEN / NLR |
| CITY OF BRENTWOOD WELL 15 | 2222 ELKINS WAY | CONTRA COSTA CO. SITE LIST,CERS |
| SUMMIT BUILDING SVCS | 2150 ELKINS WAY | HWTS,HAZNET, PEST LIC, CONTRA COSTA CO. SITE LIST |
| TREESCAPE CORPORATION YARD | 2201 ELKINS WAY | CERS HAZ WASTE, CERS TANKS, NPDES, CIWQS, CERS |
| CITY OF BRENTWOOD PUBLIC WORKS | 2201 ELKINS WAY BLDG D | RCRA NONGEN / NLR |
| MUNICIPAL SERVICES CENTER | 2201 ELKINS WAY | EMI,NPDES, CONTRA COSTA CO. SITE LIST, CERS |
| BRENTWOOD PUBLIC WORKS CORP YARD | 2201 ELKINS WAY | AST |
| BERMUDEZ AUTO SERVICE & REPAIR | 415 BEATRICE CT STE F | RCRA NONGEN / NLR |
| ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR | 415 BEATRICE CT STE A | HWTS, HAZNET, CONTRA COSTA CO. SITE LIST, RCRA NONGEN / NLR, CERS HAZ WASTE, CERS |
| BERMUDEZ'S AUTO SERVICE & REPAIR | 415 BEATRICE CT STE F | CERS HAZ WASTE, CERS |
| DELTA DIABLO | 2301 ELKINS WAY | HWTS, SWF/LF, HAZNET, CERS |
| CITY OF BRENTWOOD - BRENTWOOD TRANSFER STATION | 2301 ELKINS WY | HWTS, CONTRA COSTA CO. SITE LIST, RCRA NONGEN / NLR |
| THE HOME DEPOT | 2301 ELKINS WAY | RCRA NONGEN / NLR |
| DELTA DIABLO | 2301 ELKINS WAY | RCRA NONGEN / NLR |
| B WOOD CABINET PAINTING INC | 425 BEATRICE CT | CONTRA COSTA CO. SITE LIST, CERS HAZ WASTE, CERS, RCRA NONGEN / NLR |
| MILLENNIUM AUTO CARE | 6700 BRENTWOOD BLVD | RCRA NONGEN / NLR, HWTS, CONTRA COSTA CO. SITE LIST |
| BRENTWOOD GAS MART | 6700 BRENTWOOD BLVD | UST |
| JB MARKET, LLC DBA CHEVRON | 6700 BRENTWOOD BLVD | CERS HAZ WASTE, CERS TANKS, CONTRA COSTA CO. SITE LIST,CERS |
| CUMMINGS RESIDENCE | 221 E SIMS | CONTRA COSTA CO. SITE LIST |
| CITY OF BRENTWOOD PUBLIC WORKS WELL #14 | 8414 LONE TREE WY | CONTRA COSTA CO. SITE LIST |
| BIG B LUMBER (INC) | 6600 BRENTWOOD BLVD | RCRA NONGEN / NLR, CERS HAZ WASTE,CONTRA COSTA CO. SITE LIST,CERS |
| BRENTWOOD GAS & MORE | 6750 BRENTWOOD BLVD | HWTS, CERS HAZ WASTE, CERS TANKS, EMI, HAZNET, CONTRA COSTA CO. SITE LIST, CERS |

| FACILITY | STREET | DATABASES |
|---|-------------------------------|---|
| DRAG ON PERFORMANCE | 6750 BRENTWOOD BLVD | HWTS, CERS HAZ WASTE, CONTRA COSTA CO. SITE LIST, CERS |
| SAVERS FUEL MART | 6750 BRENTWOOD BLVD | UST, CDL |
| DELTAS AUTO SERVICE | 6750 BRENTWOOD BLVD | RCRA NONGEN / NLR |
| JOES AUTOMOTIVE | 6750 BRENTWOOD BLVD | RCRA NONGEN / NLR |
| CITY OF BRENTWOOD PUBLIC WORKS WELL #6 | 2000 HOMECOMING WY | EMI, CONTRA COSTA CO. SITE LIST, CERS |
| BRENTWOOD WWTP | 2251 ELKINS WAY | CHMIRS, CORTESE, ENF, NPDES, CIWQS |
| SAND CREEK ELEMENTARY SCHOOL | SAND CREEK ROAD/GARIN PARKWAY | ENVIROSTOR, SCH |
| ZOCCHI ELEMENTARY SCHOOL | BROWNSTONE ROAD/ANDERSON LANE | ENVIROSTOR, SCH |
| 76-ACRE FOURTH HIGH SCHOOL | DELTA AND SELLERS | ENVIROSTOR,SCH |
| COOK BATTERY RECLAMATION (OAKLEY BATTERY) | 139 HILL AVENUE | RESPONSE, ENVIROSTOR, CPS-SLIC, HIST CAL-SITES, LIENS, CORTESE, HIST CORTESE, CERS, CA BOND EXP. PLAN |

Based on the distances to the identified database sites, regional topographic gradient, and the EDR findings, it is unlikely that the above-stated database sites pose an environmental risk to the Property. Properties that are on the “Orphan Summary” list appear to be located beyond the ASTM recommended radius search criteria.

3.4 REGULATORY AGENCY FILES AND RECORDS

The following agencies were contacted pertaining to possible past development and/or activity at the Property.

TABLE 3.4-1: Regulatory Agency Records

| NAME OF AGENCY | RECORDS REVIEWED |
|---|--|
| Brentwood City Clerk | <p>We contacted the City of Brentwood Clerk for files associated with Property. We did not receive a response prior to the publication of this document; however, the following documents were obtained from the City of Brentwood for an earlier assessment (ENGEO 2014).</p> <ul style="list-style-type: none"> • Job Record Card # B11-0591 dated June 3, 2011. The job was for demolition of 1,360 sq. ft. building and detached garage. • Building Permit for demolition of a single-family home dated June 3, 2011. • Bay Area Air Quality Management District (BAAQMD) receipt of payment and Asbestos • Removal/Demolition Plan for the former residence. • Phase I Environmental Site Assessment and Limited Phase II Environmental Site Assessment (Purcell, Rhoades & Associates). |
| East Contra Costa County Fire Protection District (ECCCFPD) | ECCCFPD does not have records for the Property. |

| NAME OF AGENCY | RECORDS REVIEWED |
|---|---|
| Contra Costa County Department of Environmental Health | We contacted Contra Costa County to check for files for the Property. We did not receive a response prior to this report publication. |
| Contra Costa County Health Services, Hazardous Materials Programs | Contra Costa County Hazardous Materials Programs does not have records for the Property. |
| California State Water Resources Control Board | The Property is not listed on the GeoTracker website. |
| Department of Toxic Substances Control | The Property Is not listed on the EnviroStor website. |

3.5 INDOOR AIR QUALITY

An evaluation of indoor air quality, mold, or radon was not included as part of the contracted scope of services. The California Department of Public Health has conducted studies of radon risks throughout the state, sorted by zip code. Results of the studies indicate that 11 tests were conducted within the Property zip code, with no tests exceeding the current EPA action level of 4picocuries per liter {pCi/L}¹).

In accordance with ASTM E2600-15 (Tier 1) (*Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*); there no potential petroleum hydrocarbon sources for vapor intrusion within 1/10 mile of the Property or volatile organic compound (VOCs) sources within 1/3 mile of the Property.

4.0 SITE RECONNAISSANCE

4.1 METHODOLOGY

ENGEO conducted a reconnaissance of the Property on October 13, 2020. The reconnaissance was performed by Taunee Werts, a Staff Environmental Geologist of ENGEO. The Property was viewed for hazardous materials storage, superficial staining or discoloration, debris, stressed vegetation, or other conditions that may be indicative of potential sources of soil or groundwater contamination. The Property was also checked for evidence of fill/ventilation pipes, ground subsidence, or other evidence of existing or preexisting underground storage tanks. Photographs taken during the site reconnaissance are presented in Figure 4.

4.2 SITE OBSERVATIONS

The following table summarizes our observations during the reconnaissance.

¹ California Department of Public Health – Radon Program–
(<https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf>).

TABLE 4.2-1: Site Observations

| FEATURE TYPE | OBSERVATIONS |
|--|--|
| Structures | No structures were observed during the site reconnaissance. A concrete pad was evident on the southwest side of the Property. |
| Hazardous Substances and Petroleum Products in Connection with Identified Uses | No hazardous substances or petroleum products were observed within the Property during the site reconnaissance. |
| Storage Tanks (underground and above-ground) | No above-ground storage tanks or evidence of existing underground storage tanks was observed during the site reconnaissance. |
| Odors | No odors indicative of hazardous materials or petroleum material impacts were noted at the time of the reconnaissance. |
| Pools of Potentially Hazardous Liquid | No pools of potentially hazardous liquid were observed within the Property at the time of our reconnaissance. |
| Drums | No drums were observed on the Property at the time of the reconnaissance. |
| Polychlorinated Biphenyls (PCBs) Containing Equipment | No potential PCB-containing equipment, including transformers, was observed within the Property during our site reconnaissance; however, three sets of pole-mounted transformers were observed directly south of the Property. No staining was observed either on or below the transformers. |
| Hazardous Substances and Petroleum Product Containers | No hazardous substance or petroleum product containers were observed on the Property at the time of our reconnaissance. |
| Pits, Ponds, and Lagoons | No pits, ponds or lagoons were observed within the Property at the time of our reconnaissance. |
| Stained Soil/Pavement | No stained soil or pavement was observed within the Property at the time of our reconnaissance. |
| Stressed Vegetation | No signs of stressed vegetation were observed on the Property at the time of our reconnaissance. |
| Solid Waste/Debris | Debris was observed on the northern and southern portion of the Property. The debris consisted of tractors, pipe, and other miscellaneous farming equipment. |
| Stockpiles/Fill Material | No stockpiles or fill material was observed on the Property during the reconnaissance. |
| Wastewater | No wastewater conveyance systems were observed at the Property during the reconnaissance. |
| Wells | No active wells were evident at the Property. A possible well (apparently non-operational groundwater well) was observed in the southern portion of the Property (near the former structures) during the reconnaissance. It should be noted that an environmental questionnaire completed in 2014 describes an abandoned domestic well was located on the Property. |
| Septic Systems | No septic systems were observed within the Property during our site reconnaissance, though it is likely private septic system(s) exist. It should be noted that environmental questionnaire completed in 2014 described a "redwood septic system" had served a dwelling that was previously on the Property. A sanitary sewer manhole was observed on the central portion of the Property. |

4.3 ASBESTOS, LEAD, AND PCB-CONTAINING MATERIALS

No structures are currently located on the Property.

5.0 INTERVIEWS

Environmental client and Key Site Manager site questionnaires were provided to the client, pertaining to applicable environmental information regarding the Property. We did not receive the completed questionnaires by the time of this report publication, which is considered a potential data gap.

However, ENGEO received environmental questionnaires for earlier phase I ESAs (ENGEO, 2014 and 2016), which did not identify environmental conditions associate with the Property.

6.0 FINDINGS AND CONCLUSIONS

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps, and physical setting sources. A reconnaissance of the Property was completed to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials and to conduct written/oral interviews with persons knowledgeable about current and past site use.

The site reconnaissance and records review did not find documentation or physical evidence of soil, soil gas, or groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies found no documentation of hazardous materials violations or discharge on the Property and did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

Based on the findings of this assessment, no RECs, no historical RECs, and no controlled RECs were identified for the Property.

ENGEO has performed a phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-13 and the standards and practices of the All Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312).

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC.

This assessment has revealed no evidence of Recognized Environmental Conditions in connection with the Property, and the Property is suitable for residential development. ENGEO recommends no further environmental studies at this time.

7.0 LIMITATIONS

7.1 SIGNIFICANT ASSUMPTIONS OR DEVIATIONS FROM ASTM STANDARD PRACTICE

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC.

7.2 OPINIONS AND DATA GAPS

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC. The data gaps identified during this process do not affect the conclusions as to the presence or lack of presence of RECs at the Property. The following data gaps were identified.

- We did not receive a current preliminary title report.
- We did not receive responses from the City of Brentwood or Contra Costa County Department of Environmental Health.
- We did not receive current environmental questionnaires.

7.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The professional staff at ENGEO strives to perform its services in a proper and professional manner with reasonable care and competence but is not infallible. The recommendations and conclusions presented in this report were based on the findings of our study, which were developed solely from the contracted services. The findings of the report are based in part on contracted database research, out-of-house reports, and personal communications. The opinions formed by ENGEO are based on the assumed accuracy of the relied upon data in conjunction with our relevant professional experience related to such data interpretation. ENGEO assumes no liability for the validity of the materials relied upon in the preparation of this report.

This document must not be subject to unauthorized reuse; that is, reuse without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time. The findings from a phase I environmental site assessment are valid for one year after completion of the report. Updates of portions of the assessment may be necessary after a period of 180 days after completion.

This phase I environmental site assessment is not intended to represent a complete soil, soil gas, or groundwater characterization, nor define the depth or extent of soil, soil gas, or groundwater contamination. It is intended to provide an evaluation of potential environmental concerns associated with the use of the Property. A more extensive assessment that would include a subsurface exploration with laboratory testing of soil, soil gas, and groundwater samples could provide more definitive information concerning site-specific conditions. If additional assessment activities are considered for the Property and if other entities are retained to provide such services, ENGEO cannot be held responsible for any and all claims arising from or resulting from the performance of such services by other persons or entities. ENGEO can also not be held

responsible from any and all claims arising or resulting from clarifications, adjustments, modifications, discrepancies or other changes necessary to reflect changed field or other conditions.

7.4 SPECIAL TERMS AND CONDITIONS

ENGEO has prepared this report for the exclusive use of our client, MLC Holdings, Inc. It is recognized and agreed that ENGEO has assumed responsibility only for undertaking the study for the Client. The responsibility for disclosures or reports to a third party and for remedial or mitigative action shall be solely that of the Client.

Laboratory testing of soil, soil gas, or groundwater samples was not within the scope of the contracted services. The assessment did not include an asbestos survey, an evaluation of lead-based paint, an inspection of light ballasts for polychlorinated biphenyls (PCBs), or a mold survey. A radon evaluation was not performed.

This report is based upon field and other conditions discovered at the time of preparation of ENGEO's assessment. Visual observations referenced in this report are intended only to represent conditions at the time of the reconnaissance. ENGEO would not be aware of site contamination, such as dumping and/or accidental spillage, that occurred subsequent to the reconnaissance conducted by ENGEO personnel.

DRAFT

SELECTED REFERENCES

Google Maps (<http://maps.google.com>)

California Department of Water Resources (<http://www.water.ca.gov/waterdatalibrary/>)

California Department of Public Health – Radon Program–
(<https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf>).

California Geologic Energy Management Division (CalGEM)
(<https://www.conservation.ca.gov/calgem>)

CalGEM Well Finder
(<https://maps.conservation.ca.gov/doggr/wellfinder/#openModal/-118.94276/37.12009/6>)

ENGEO; Modified Phase I Environmental Site Assessment, Hanson Ranch Property, Hanson Lane, Assessor's Parcel Number 018-230-034, Brentwood, California, December 8, 2014, Project No. 11788.000.000.

ENGEO; Phase I Environmental Site Assessment, Hanson Ranch, 251 Hanson Lane, Brentwood, California, July 21, 2016, Project No. 11788.001.000.

Purcell, Rhodes & Associates, Inc; Phase I Environmental Site Assessment and Limited Phase II Environmental Site Assessment, 251 Hanson Lane, Assessor's Parcel Number 018-230-034, Brentwood, California, May 22, 2006, Project No. 2-301/7250-01.

Wagner, D.L., E.J. Bortugno, and R.D. McJunkin; Geologic Map of the San Francisco-San Jose Quadrangle, California; 1991; 1:250,000.



DRAFT

FIGURES

FIGURE 1: Vicinity Map

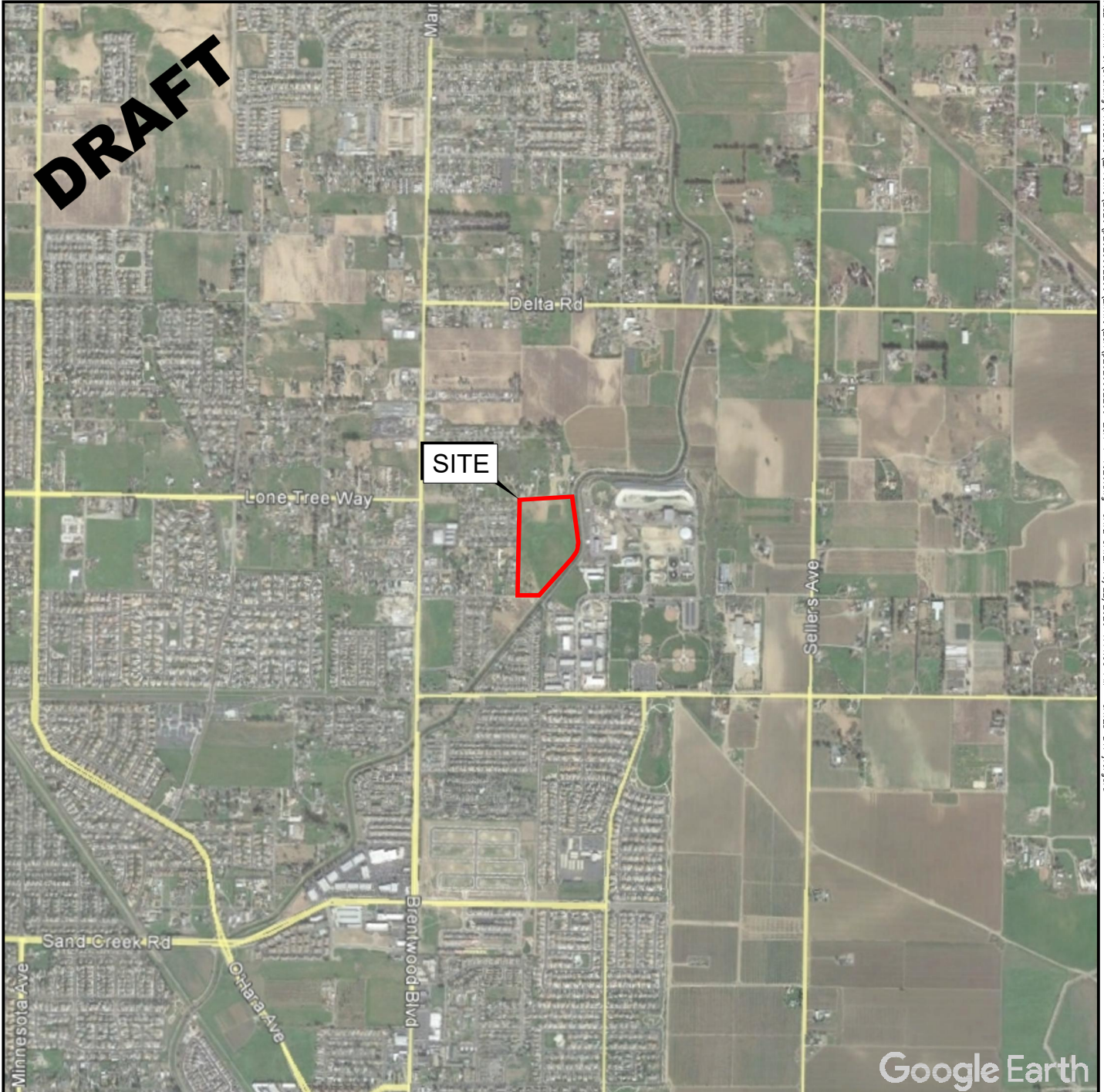
FIGURE 2: Site Plan

FIGURE 3: Assessor's Parcel Map

FIGURE 4: Site Photographs

COPYRIGHT © 2020 BY ENGeo INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGeo INCORPORATED.

DRAFT



FILE PATH: G:\Drafting\PROJECTS\Promo\2020\p202002280\EnGeo\ESA\p202002280-ESA-1-1020.dwg SAVE DATE: 10/22/2020 1:44:58 PM SAVED BY: jvargara



BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2020



VICINITY MAP
HANSON LANE
BRENTWOOD, CALIFORNIA

PROJECT NO.: 1178.002.001

SCALE: AS SHOWN

DRAWN BY: JV

CHECKED BY: SPM

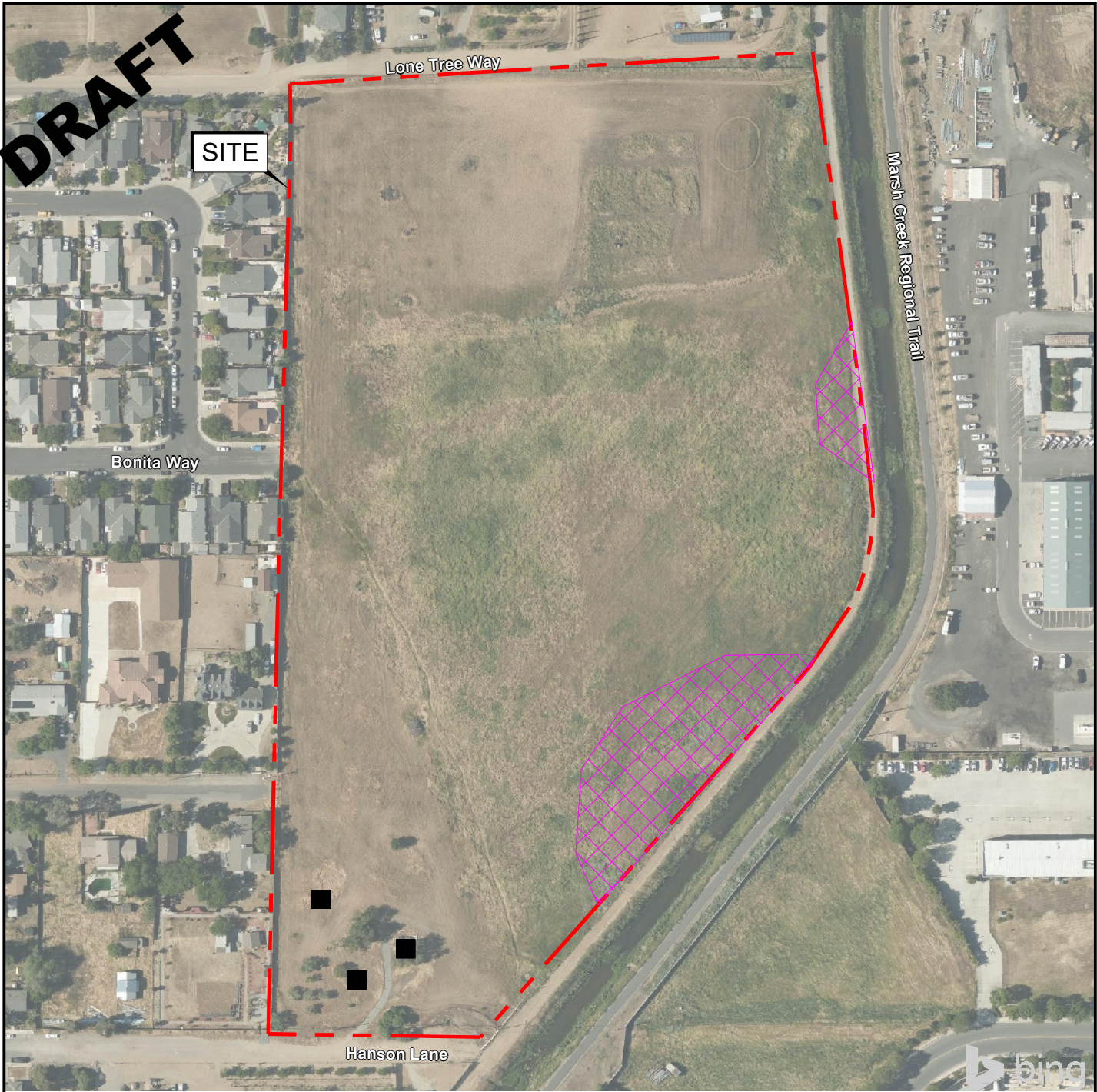
FIGURE NO.

1

ORIGINAL FIGURE PRINTED IN COLOR

COPYRIGHT © 2020 BY ENGeo INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGeo INCORPORATED.

FILE PATH: G:\Drafting\PROJECTS\Promo\2020\p2020002280\Enviro\ESA\p2020002280-ESA-2-SitePlan-1020.dwg SAVE DATE: 10/23/2020 9:02:35 AM SAVED BY: jvergara



SITE

Lone Tree Way

Bonita Way



Marsh Creek Regional Trail

Hanson Lane



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

-  FORMER MARSH CREEK ALIGNMENT
-  LOCATIONS OF FORMER STRUCTURES

BASE MAP SOURCE: BING MAPPING SERVICE



SITE PLAN
HANSON LANE
BRENTWOOD, CALIFORNIA

PROJECT NO.: 11788.002.001

SCALE: AS SHOWN

DRAWN BY: JV

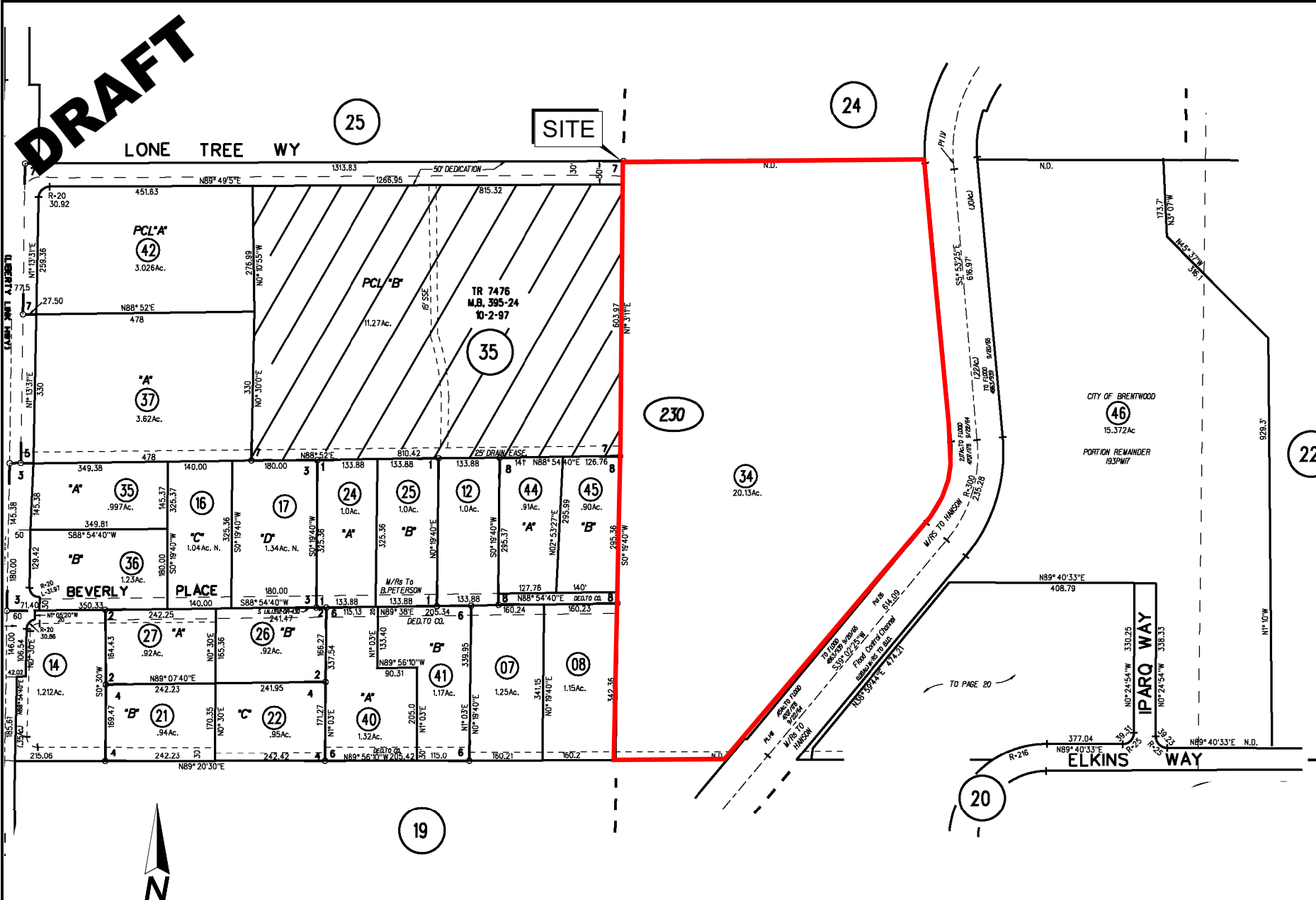
CHECKED BY: SPM

FIGURE NO.

2

ORIGINAL FIGURE PRINTED IN COLOR

FILE PATH: C:\Working\PROJECTS_Promo\2020\p2020002280\EnGeo\ESN\p2020002280-ESA-3-Parcel-1020.dwg SNAME DATE: 10/22/2020 1:32:10 PM SAVED BY: jvergara



BASE MAP SOURCE: CONTRA COSTA COUNTY ASSESSOR'S OFFICE



ASSESSOR'S PARCEL MAP
HANSON LANE
BRENTWOOD, CALIFORNIA

| | | |
|----------------------------|-----------------|------------------------|
| PROJECT NO.: 11788.002.001 | | FIGURE NO. 3 |
| SCALE: AS SHOWN | | |
| DRAWN BY: JV | CHECKED BY: SPM | |

ORIGINAL FIGURE PRINTED IN COLOR



PHOTO 1
SOUTHERN PORTION OF THE PROEPRTY LOOKING NORTHEAST
- POSSIBLE GROUNDWATER WELL AND ABANDONED FARMING EQUIPMENT



PHOTO 2
WESTERN PORTION OF PROPERTY LOOKING NORTH



PHOTO 3
NORTHWEST PROPERTY CORNER LOOKING SOUTHWEST



PHOTO 4
NORTHERN PORTION OF PROPERTY LOOKING EAST - DEBRIS PILE



PHOTO 5
CENTRAL PORTION OF PROPERTY LOOKING EAST



PHOTO 6
CENTRAL PORTION OF THE PROPERTY - SEWER MANHOLE



DRAFT

APPENDIX A

ENVIRONMENTAL DATA RESOURCES, INC.

Radius Map Report

Hanson Ranch

251 Hanson Lane

Brentwood, CA 94513

Inquiry Number: 06226122.2r

October 14, 2020

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

| <u>SECTION</u> | <u>PAGE</u> |
|--|-------------|
| Executive Summary | ES1 |
| Overview Map | 2 |
| Detail Map | 3 |
| Map Findings Summary | 4 |
| Map Findings | 9 |
| Orphan Summary | 361 |
| Government Records Searched/Data Currency Tracking | GR-1 |
| <u>GEOCHECK ADDENDUM</u> | |
| Physical Setting Source Addendum | A-1 |
| Physical Setting Source Summary | A-2 |
| Physical Setting SSURGO Soil Map | A-5 |
| Physical Setting Source Map | A-10 |
| Physical Setting Source Map Findings | A-12 |
| Physical Setting Source Records Searched | PSGR-1 |

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

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission. EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

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

251 HANSON LANE
BRENTWOOD, CA 94513

COORDINATES

Latitude (North): 37.9600230 - 37° 57' 36.08"
Longitude (West): 121.6902890 - 121° 41' 25.04"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 615056.9
UTM Y (Meters): 4201983.0
Elevation: 52 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5640376 BRENTWOOD, CA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140606
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
251 HANSON LANE
BRENTWOOD, CA 94513

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---------------------|----------------------|----------------------|--|--------------------|----------------------------|
| A1 | CITY OF BRENTWOOD WE | 228 HANSON LN A | CONTRA COSTA CO. SITE LIST | Higher | 66, 0.013, SSW |
| A2 | CITY OF BRENTWOOD WE | 228 HANSON LN B | CONTRA COSTA CO. SITE LIST | Higher | 66, 0.013, SSW |
| B3 | ANTIOCH BUILDING MAT | 2170 ELKINS WAY | AST, CERS TANKS, EMI, NPDES, CONTRA COSTA CO. SITE.. | Higher | 622, 0.118, SE |
| C4 | KITCHEN MAKE-OVERS | 2145 ELKINS WAY, STE | RCRA NonGen / NLR | Higher | 649, 0.123, SSE |
| B5 | CITY OF BRENTWOOD WE | 2222 ELKINS WAY | CONTRA COSTA CO. SITE LIST, CERS | Higher | 649, 0.123, SE |
| C6 | SUMMIT BUILDING SVCS | 2150 ELKINS WAY | HAZNET, PEST LIC, CONTRA COSTA CO. SITE LIST, HWTS | Higher | 714, 0.135, SSE |
| B7 | TREESCAPE CORPORATIO | 2201 ELKINS WAY | CERS HAZ WASTE, CERS TANKS, NPDES, CIWQS, CERS | Higher | 742, 0.141, SE |
| B8 | CITY OF BRENTWOOD PU | 2201 ELKINS WAY BLDG | RCRA NonGen / NLR | Higher | 742, 0.141, SE |
| B9 | MUNICIPAL SERVICES C | 2201 ELKINS WAY | EMI, NPDES, CONTRA COSTA CO. SITE LIST, CERS | Higher | 742, 0.141, SE |
| B10 | BRENTWOOD PUBLIC WOR | 2201 ELKINS WAY | AST | Higher | 742, 0.141, SE |
| D11 | BERMUDEZ AUTO SERVIC | 415 BEATRICE CT STE | RCRA NonGen / NLR | Higher | 948, 0.180, SSE |
| D12 | ROAD RUNNER RV INC D | 415 BEATRICE CT STE | HAZNET, CONTRA COSTA CO. SITE LIST, HWTS | Higher | 948, 0.180, SSE |
| D13 | ROAD RUNNER RV REPAI | 415 BEATRICE CT STE | CERS HAZ WASTE, CERS | Higher | 948, 0.180, SSE |
| D14 | ROAD RUNNER RV INC D | 415 BEATRICE CT STE | RCRA NonGen / NLR | Higher | 948, 0.180, SSE |
| D15 | BERMUDEZ'S AUTO SERV | 415 BEATRICE CT STE | CERS HAZ WASTE, CERS | Higher | 948, 0.180, SSE |
| E16 | DELTA DIABLO | 2301 ELKINS WAY | SWF/LF, HAZNET, CERS, HWTS | Higher | 965, 0.183, ESE |
| E17 | CITY OF BRENTWOOD TR | 2301 ELKINS WY | CONTRA COSTA CO. SITE LIST, HWTS | Higher | 965, 0.183, ESE |
| E18 | CITY OF BRENTWOOD - | 2301 ELKINS WAY | RCRA NonGen / NLR | Higher | 965, 0.183, ESE |
| E19 | THE HOME DEPOT | 2301 ELKINS WAY | RCRA NonGen / NLR | Higher | 965, 0.183, ESE |
| E20 | DELTA DIABLO | 2301 ELKINS WAY | RCRA NonGen / NLR | Higher | 965, 0.183, ESE |
| D21 | B WOOD CABINET PAINT | 425 BEATRICE CT | CONTRA COSTA CO. SITE LIST | Higher | 1028, 0.195, SSE |
| D22 | B WOOD CABINET PAINT | 425 BEATRICE CT | CERS HAZ WASTE, CERS | Higher | 1028, 0.195, SSE |
| D23 | B WOOD CABINET PAINT | 425 BEATRICE CT | RCRA NonGen / NLR | Higher | 1028, 0.195, SSE |
| F24 | MILLENNIUM AUTO CARE | 6700 BRENTWOOD BLVD | RCRA NonGen / NLR | Higher | 1134, 0.215, WSW |
| F25 | BRENTWOOD GAS MART | 6700 BRENTWOOD BLVD | UST | Higher | 1134, 0.215, WSW |
| F26 | JB MARKET, LLC DBA C | 6700 BRENTWOOD BLVD | CERS HAZ WASTE, CERS TANKS, CONTRA COSTA CO. SITE | Higher | 1134, 0.215, WSW |
| F27 | MILLENNIUM AUTO CARE | 6700 BRENTWOOD BLVD | RCRA NonGen / NLR | Higher | 1134, 0.215, WSW |
| F28 | MILLENNIUM AUTO CARE | 6700 BRENTWOOD BLVD | CONTRA COSTA CO. SITE LIST, HWTS | Higher | 1134, 0.215, WSW |
| 29 | CUMMINGS RESIDENCE | 221 E SIMS | CONTRA COSTA CO. SITE LIST | Higher | 1137, 0.215, NW |
| 30 | CITY OF BRENTWOOD PU | 8414 LONE TREE WY | CONTRA COSTA CO. SITE LIST | Higher | 1208, 0.229, WNW |
| G31 | BIG B LUMBER | 6600 BRENTWOOD BLVD | RCRA NonGen / NLR | Higher | 1264, 0.239, West |
| G32 | BIG B LUMBER INC | 6600 BRENTWOOD BLVD | CERS HAZ WASTE, CONTRA COSTA CO. SITE LIST, CERS | Higher | 1264, 0.239, West |
| H33 | BRENTWOOD GAS & MORE | 6750 BRENTWOOD BLVD | CERS HAZ WASTE, CERS TANKS, EMI, HAZNET, CONTRA... | Higher | 1265, 0.240, WSW |
| H34 | DRAG ON PERFORMANCE | 6750 BRENTWOOD BLVD | CERS HAZ WASTE, CONTRA COSTA CO. SITE LIST, CERS,... | Higher | 1265, 0.240, WSW |
| H35 | SAVERS FUEL MART | 6750 BRENTWOOD BLVD | UST, CDL | Higher | 1265, 0.240, WSW |
| H36 | DELTAS AUTO SERVICE | 6750 BRENTWOOD BLVD | RCRA NonGen / NLR | Higher | 1265, 0.240, WSW |
| H37 | JOES AUTOMOTIVE | 6750 BRENTWOOD BLVD | RCRA NonGen / NLR | Higher | 1265, 0.240, WSW |
| I38 | CITY OF BRENTWOOD PU | 2000 HOMECOMING WY | EMI, CONTRA COSTA CO. SITE LIST, CERS | Higher | 1291, 0.245, SSW |
| I39 | CITY OF BRENTWOOD PW | 2000 HOMECOMING WY | CONTRA COSTA CO. SITE LIST | Higher | 1291, 0.245, SSW |

MAPPED SITES SUMMARY

Target Property Address:
 251 HANSON LANE
 BRENTWOOD, CA 94513

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---------------------|----------------------|----------------------|--|--------------------|----------------------------|
| 40 | BRENTWOOD WWTP | 2251 ELKINS WAY | CHMIRS, Cortese, ENF, NPDES, CIWQS | Higher | 1427, 0.270, East |
| 41 | SAND CREEK ELEMENTAR | SAND CREEK ROAD/GARI | ENVIROSTOR, SCH | Higher | 3598, 0.681, South |
| 42 | ZOCCHI ELEMENTARY SC | BROWNSTONE ROAD/ANDE | ENVIROSTOR, SCH | Higher | 4168, 0.789, NW |
| 43 | 76-ACRE FOURTH HIGH | DELTA AND SELLERS | ENVIROSTOR, SCH | Lower | 4194, 0.794, NE |
| J44 | COOK BATTERY (OAKLEY | 139 HILL AVENUE | RESPONSE, ENVIROSTOR, CPS-SLIC, HIST Cal-Sites,... | Lower | 4568, 0.865, North |
| J45 | COOK BATTERY RECLAMA | 139 HILL AVENUE | CPS-SLIC, CA BOND EXP. PLAN | Lower | 4568, 0.865, North |

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

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

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
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

EXECUTIVE SUMMARY

HIST UST..... Hazardous Substance Storage Container Database
CA FID UST..... Facility Inventory Database

Local Land Records

LIENS..... Environmental Liens Listing
LIENS 2..... CERCLA Lien Information
DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
CHMIRS..... California Hazardous Material Incident Report System
LDS..... Land Disposal Sites Listing
MCS..... Military Cleanup Sites Listing
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
FINDS..... Facility Index System/Facility Registry System
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
ECHO..... Enforcement & Compliance History Information
UXO..... Unexploded Ordnance Sites

EXECUTIVE SUMMARY

| | |
|--------------------------|---|
| FUELS PROGRAM..... | EPA Fuels Program Registered Listing |
| CUPA Listings..... | CUPA Resources List |
| DRYCLEANERS..... | Cleaner Facilities |
| EML..... | Emissions Inventory Data |
| ENF..... | Enforcement Action Listing |
| Financial Assurance..... | Financial Assurance Information Listing |
| HAZNET..... | Facility and Manifest Data |
| ICE..... | ICE |
| HIST CORTESE..... | Hazardous Waste & Substance Site List |
| HWP..... | EnviroStor Permitted Facilities Listing |
| HWT..... | Registered Hazardous Waste Transporter Database |
| MINES..... | Mines Site Location Listing |
| MWMP..... | Medical Waste Management Program Listing |
| NPDES..... | NPDES Permits Listing |
| PEST LIC..... | Pesticide Regulation Licenses Listing |
| PROC..... | Certified Processors Database |
| Notify 65..... | Proposition 65 Records |
| UIC..... | UIC Listing |
| UIC GEO..... | UIC GEO (GEOTRACKER) |
| WASTEWATER PITS..... | Oil Wastewater Pits Listing |
| WDS..... | Waste Discharge System |
| WIP..... | Well Investigation Program Case List |
| MILITARY PRIV SITES..... | MILITARY PRIV SITES (GEOTRACKER) |
| PROJECT..... | PROJECT (GEOTRACKER) |
| WDR..... | Waste Discharge Requirements Listing |
| CIWQS..... | California Integrated Water Quality System |
| CERS..... | CERS |
| NON-CASE INFO..... | NON-CASE INFO (GEOTRACKER) |
| OTHER OIL GAS..... | OTHER OIL & GAS (GEOTRACKER) |
| PROD WATER PONDS..... | PROD WATER PONDS (GEOTRACKER) |
| SAMPLING POINT..... | SAMPLING POINT (GEOTRACKER) |
| WELL STIM PROJ..... | Well Stimulation Project (GEOTRACKER) |
| HWTS..... | Hazardous Waste Tracking System |
| MINES MRDS..... | Mineral Resources Data System |

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

| | |
|-----------------------|---|
| EDR MGP..... | EDR Proprietary Manufactured Gas Plants |
| EDR Hist Auto..... | EDR Exclusive Historical Auto Stations |
| EDR Hist Cleaner..... | EDR Exclusive Historical Cleaners |

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

| | |
|---------------|---|
| RGA LF..... | Recovered Government Archive Solid Waste Facilities List |
| RGA LUST..... | Recovered Government Archive Leaking Underground Storage Tank |

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent NPL

RESPONSE: Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

A review of the RESPONSE list, as provided by EDR, has revealed that there is 1 RESPONSE site within approximately 1 mile of the target property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|-------------------------------|-------------------------------------|-------------------|-------------------|
| <i>COOK BATTERY (OAKLEY)</i> Database: RESPONSE, Date of Government Version: 07/27/2020 AWP Facility Id: 07360035 Status: Certified / Operation & Maintenance Facility Id: 07360035 | <i>139 HILL AVENUE</i> | <i>N 1/2 - 1 (0.865 mi.)</i> | <i>J44</i> | <i>320</i> |

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 identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/27/2020 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|------------------------------------|--------------------------------------|------------------|-------------------|
| <i>SAND CREEK ELEMENTAR</i> Facility Id: 07100004 Status: No Further Action | <i>SAND CREEK ROAD/GARI</i> | <i>S 1/2 - 1 (0.681 mi.)</i> | <i>41</i> | <i>307</i> |
| <i>ZOCCHI ELEMENTARY SC</i> Facility Id: 60000254 Status: No Further Action | <i>BROWNSTONE ROAD/ANDE</i> | <i>NW 1/2 - 1 (0.789 mi.)</i> | <i>42</i> | <i>310</i> |
| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
| <i>76-ACRE FOURTH HIGH</i> | <i>DELTA AND SELLERS</i> | <i>NE 1/2 - 1 (0.794 mi.)</i> | <i>43</i> | <i>315</i> |

EXECUTIVE SUMMARY

Facility Id: 70000141
 Status: No Further Action

| | | | | |
|---|------------------------|------------------------------|------------|------------|
| COOK BATTERY (OAKLEY) | 139 HILL AVENUE | N 1/2 - 1 (0.865 mi.) | J44 | 320 |
| Facility Id: 07360035 | | | | |
| Status: Certified / Operation & Maintenance | | | | |

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

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|------------------------|----------------------------------|---------------|-------------|
| DELTA DIABLO | 2301 ELKINS WAY | ESE 1/8 - 1/4 (0.183 mi.) | E16 | 89 |
| Database: SWF/LF (SWIS), Date of Government Version: 05/11/2020 | | | | |
| Facility ID: 07-AA-0068 | | | | |
| Operational Status: Active | | | | |
| Regulation Status: Permitted | | | | |

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|----------------------------|----------------------------------|---------------|-------------|
| BRENTWOOD GAS MART | 6700 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.215 mi.) | F25 | 133 |
| Database: UST, Date of Government Version: 06/08/2020 | | | | |
| Facility Id: 07-000-772830 | | | | |
| Facility Id: 772830 | | | | |
| SAVERS FUEL MART | 6750 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.240 mi.) | H35 | 205 |
| Database: UST, Date of Government Version: 06/08/2020 | | | | |
| Facility Id: 07-000-748817 | | | | |
| Facility Id: 748817 | | | | |

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|------------------------|-------------------------------|---------------|-------------|
| ANTIOCH BUILDING MAT | 2170 ELKINS WAY | SE 0 - 1/8 (0.118 mi.) | B3 | 9 |
| Database: AST, Date of Government Version: 07/06/2016 | | | | |

EXECUTIVE SUMMARY

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|-----------------|-----------------------------|---------------|-------------|
| BRENTWOOD PUBLIC WOR Database: AST, Date of Government Version: 07/06/2016 | 2201 ELKINS WAY | SE 1/8 - 1/4 (0.141 mi.) | B10 | 72 |

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|------------------------------|------------------------|------------------------------|---------------|-------------|
| COOK BATTERY (OAKLEY) | 139 HILL AVENUE | N 1/2 - 1 (0.865 mi.) | J44 | 320 |

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 07/20/2020 has revealed that there are 8 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---------------------------------|----------------------------|----------------------------------|---------------|-------------|
| TREESCAPE CORPORATIO | 2201 ELKINS WAY | SE 1/8 - 1/4 (0.141 mi.) | B7 | 49 |
| ROAD RUNNER RV REPAI | 415 BEATRICE CT STE | SSE 1/8 - 1/4 (0.180 mi.) | D13 | 79 |
| BERMUDEZ'S AUTO SERV | 415 BEATRICE CT STE | SSE 1/8 - 1/4 (0.180 mi.) | D15 | 85 |
| B WOOD CABINET PAINT | 425 BEATRICE CT | SSE 1/8 - 1/4 (0.195 mi.) | D22 | 123 |
| JB MARKET, LLC DBA C | 6700 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.215 mi.) | F26 | 133 |
| BIG B LUMBER INC | 6600 BRENTWOOD BLVD | W 1/8 - 1/4 (0.239 mi.) | G32 | 166 |
| BRENTWOOD GAS & MORE | 6750 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.240 mi.) | H33 | 171 |
| DRAG ON PERFORMANCE | 6750 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.240 mi.) | H34 | 194 |

Local Lists of Registered Storage Tanks

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 07/20/2020 has revealed that there are 4 CERS TANKS sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---------------------------------|----------------------------|----------------------------------|---------------|-------------|
| ANTIOCH BUILDING MAT | 2170 ELKINS WAY | SE 0 - 1/8 (0.118 mi.) | B3 | 9 |
| TREESCAPE CORPORATIO | 2201 ELKINS WAY | SE 1/8 - 1/4 (0.141 mi.) | B7 | 49 |
| JB MARKET, LLC DBA C | 6700 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.215 mi.) | F26 | 133 |
| BRENTWOOD GAS & MORE | 6750 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.240 mi.) | H33 | 171 |

EXECUTIVE SUMMARY

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/15/2020 has revealed that there are 13 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|----------------------|-----------------------------|---------------|-------------|
| KITCHEN MAKE-OVERS EPA ID:: CAC003019776 | 2145 ELKINS WAY, STE | SSE 0 - 1/8 (0.123 mi.) | C4 | 40 |
| CITY OF BRENTWOOD PU EPA ID:: CAL000275201 | 2201 ELKINS WAY BLDG | SE 1/8 - 1/4 (0.141 mi.) | B8 | 62 |
| BERMUDEZ AUTO SERVIC EPA ID:: CAL000299167 | 415 BEATRICE CT STE | SSE 1/8 - 1/4 (0.180 mi.) | D11 | 73 |
| ROAD RUNNER RV INC D EPA ID:: CAL000350112 | 415 BEATRICE CT STE | SSE 1/8 - 1/4 (0.180 mi.) | D14 | 83 |
| CITY OF BRENTWOOD - EPA ID:: CAL000394753 | 2301 ELKINS WAY | ESE 1/8 - 1/4 (0.183 mi.) | E18 | 115 |
| THE HOME DEPOT EPA ID:: CAC003015062 | 2301 ELKINS WAY | ESE 1/8 - 1/4 (0.183 mi.) | E19 | 117 |
| DELTA DIABLO EPA ID:: CAH111001407 | 2301 ELKINS WAY | ESE 1/8 - 1/4 (0.183 mi.) | E20 | 120 |
| B WOOD CABINET PAINT EPA ID:: CAL000308451 | 425 BEATRICE CT | SSE 1/8 - 1/4 (0.195 mi.) | D23 | 128 |
| MILLENNIUM AUTO CARE EPA ID:: CAL000436908 | 6700 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.215 mi.) | F24 | 130 |
| MILLENNIUM AUTO CARE EPA ID:: CAL000453293 | 6700 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.215 mi.) | F27 | 158 |
| BIG B LUMBER EPA ID:: CAL000391714 | 6600 BRENTWOOD BLVD | W 1/8 - 1/4 (0.239 mi.) | G31 | 163 |
| DELTAS AUTO SERVICE EPA ID:: CAL000430607 | 6750 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.240 mi.) | H36 | 206 |
| JOES AUTOMOTIVE EPA ID:: CAL000436154 | 6750 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.240 mi.) | H37 | 208 |

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-----------------------------|------------------------|------------------------------|---------------|-------------|
| COOK BATTERY RECLAMA | 139 HILL AVENUE | N 1/2 - 1 (0.865 mi.) | J45 | 359 |

EXECUTIVE SUMMARY

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/22/2020 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|------------------------|--------------------------------|---------------|-------------|
| BRENTWOOD WWTP | 2251 ELKINS WAY | E 1/4 - 1/2 (0.270 mi.) | 40 | 216 |

CONTRA COSTA CO. SITE LIST: Lists includes sites from the Underground Tank Program, Hazardous Waste Generator Program & Business Plan 12185 Program

A review of the CONTRA COSTA CO. SITE LIST list, as provided by EDR, and dated 07/16/2020 has revealed that there are 18 CONTRA COSTA CO. SITE LIST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|----------------------------|----------------------------------|---------------|-------------|
| CITY OF BRENTWOOD WE Facility Id: FA0029908 | 228 HANSON LN A | SSW 0 - 1/8 (0.013 mi.) | A1 | 9 |
| CITY OF BRENTWOOD WE Facility Id: FA0029912 | 228 HANSON LN B | SSW 0 - 1/8 (0.013 mi.) | A2 | 9 |
| ANTIOCH BUILDING MAT Facility Id: FA0030492 | 2170 ELKINS WAY | SE 0 - 1/8 (0.118 mi.) | B3 | 9 |
| CITY OF BRENTWOOD WE Facility Id: FA0030500 | 2222 ELKINS WAY | SE 0 - 1/8 (0.123 mi.) | B5 | 42 |
| SUMMIT BUILDING SVCS Facility Id: FA0036191 | 2150 ELKINS WAY | SSE 1/8 - 1/4 (0.135 mi.) | C6 | 46 |
| MUNICIPAL SERVICES C Facility Id: FA0030224 | 2201 ELKINS WAY | SE 1/8 - 1/4 (0.141 mi.) | B9 | 64 |
| ROAD RUNNER RV INC D Facility Id: FA0031102 Facility Id: FA0040321 | 415 BEATRICE CT STE | SSE 1/8 - 1/4 (0.180 mi.) | D12 | 75 |
| CITY OF BRENTWOOD TR Facility Id: FA0035299 | 2301 ELKINS WY | ESE 1/8 - 1/4 (0.183 mi.) | E17 | 113 |
| B WOOD CABINET PAINT Facility Id: FA0030250 | 425 BEATRICE CT | SSE 1/8 - 1/4 (0.195 mi.) | D21 | 122 |
| JB MARKET, LLC DBA C Facility Id: FA0029507 | 6700 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.215 mi.) | F26 | 133 |
| MILLENNIUM AUTO CARE Facility Id: FA0030591 | 6700 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.215 mi.) | F28 | 160 |
| CUMMINGS RESIDENCE Facility Id: FA0029288 | 221 E SIMS | NW 1/8 - 1/4 (0.215 mi.) | 29 | 162 |
| CITY OF BRENTWOOD PU Facility Id: FA0030314 | 8414 LONE TREE WY | WNW 1/8 - 1/4 (0.229 mi.) | 30 | 163 |
| BIG B LUMBER INC Facility Id: FA0029404 | 6600 BRENTWOOD BLVD | W 1/8 - 1/4 (0.239 mi.) | G32 | 166 |
| BRENTWOOD GAS & MORE Facility Id: FA0032338 | 6750 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.240 mi.) | H33 | 171 |
| DRAG ON PERFORMANCE | 6750 BRENTWOOD BLVD | WSW 1/8 - 1/4 (0.240 mi.) | H34 | 194 |

EXECUTIVE SUMMARY

Facility Id: FA0031109

CITY OF BRENTWOOD PU

Facility Id: FA0028340

2000 HOMECOMING WY

SSW 1/8 - 1/4 (0.245 mi.) I38

211

CITY OF BRENTWOOD PW

Facility Id: FA0029909

2000 HOMECOMING WY

SSW 1/8 - 1/4 (0.245 mi.) I39

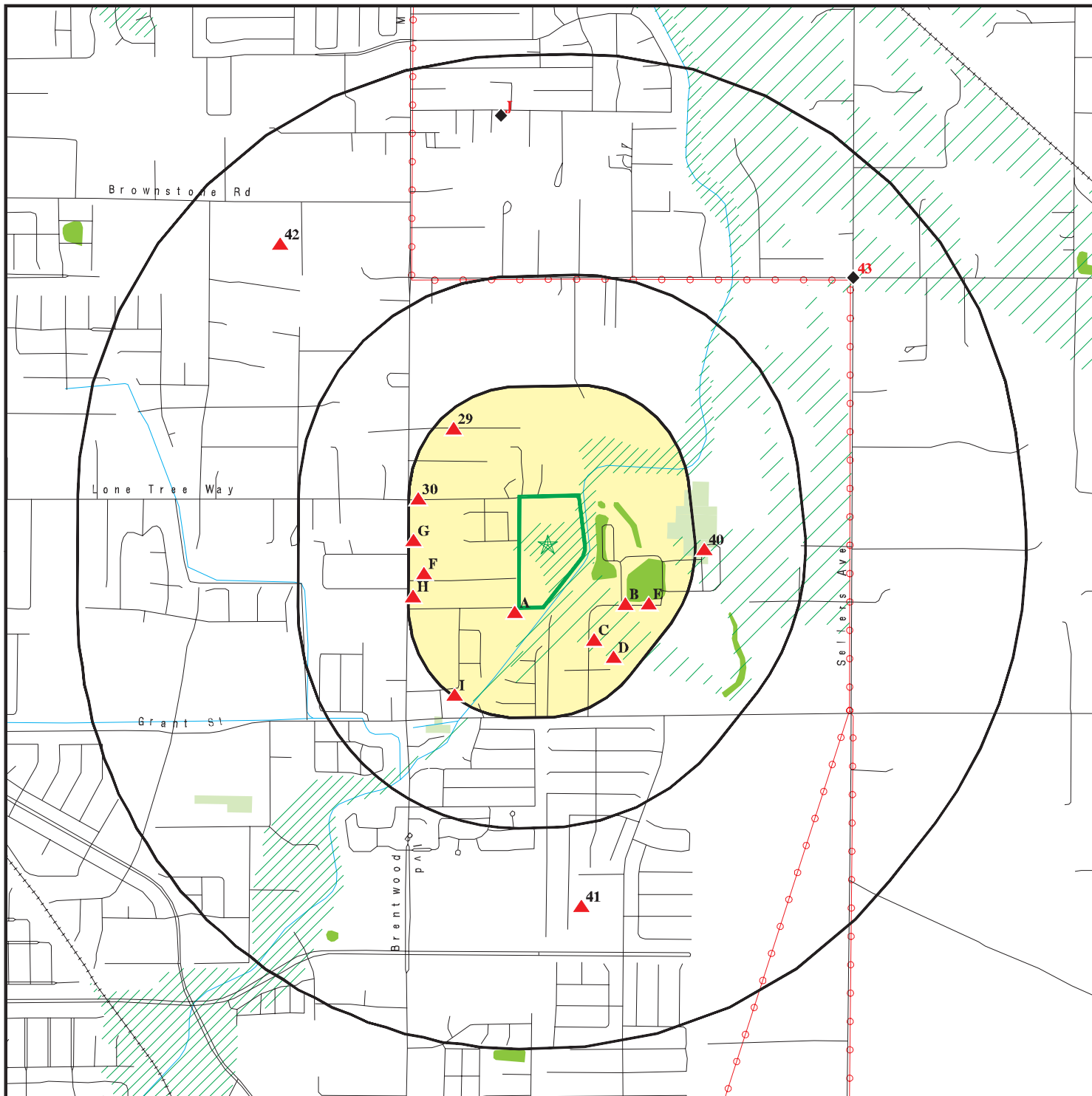
216

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 9 records.

| <u>Site Name</u> | <u>Database(s)</u> |
|------------------------------------|----------------------------|
| 7-ELEVEN INC #38737 | CERS HAZ WASTE |
| PREWETT RANCH | CIWQS |
| LYON WOODFIELD PROJECT - BRENTWOOD | CPS-SLIC |
| DOW CHEMICAL COMPANY - MARSH CREEK | CPS-SLIC |
| STATE ROUTE 4 BYPASS AUTHORITY | CPS-SLIC |
| VENTURINI LEASE SITE (BRENTWOOD OI | CPS-SLIC |
| OXY USA INC. (BRENTWOOD OIL & GAS | CPS-SLIC |
| COWELL RANCH/VINEYARDS AT MARSH CR | CPS-SLIC |
| PREWETT RANCH | CONTRA COSTA CO. SITE LIST |

OVERVIEW MAP - 06226122.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

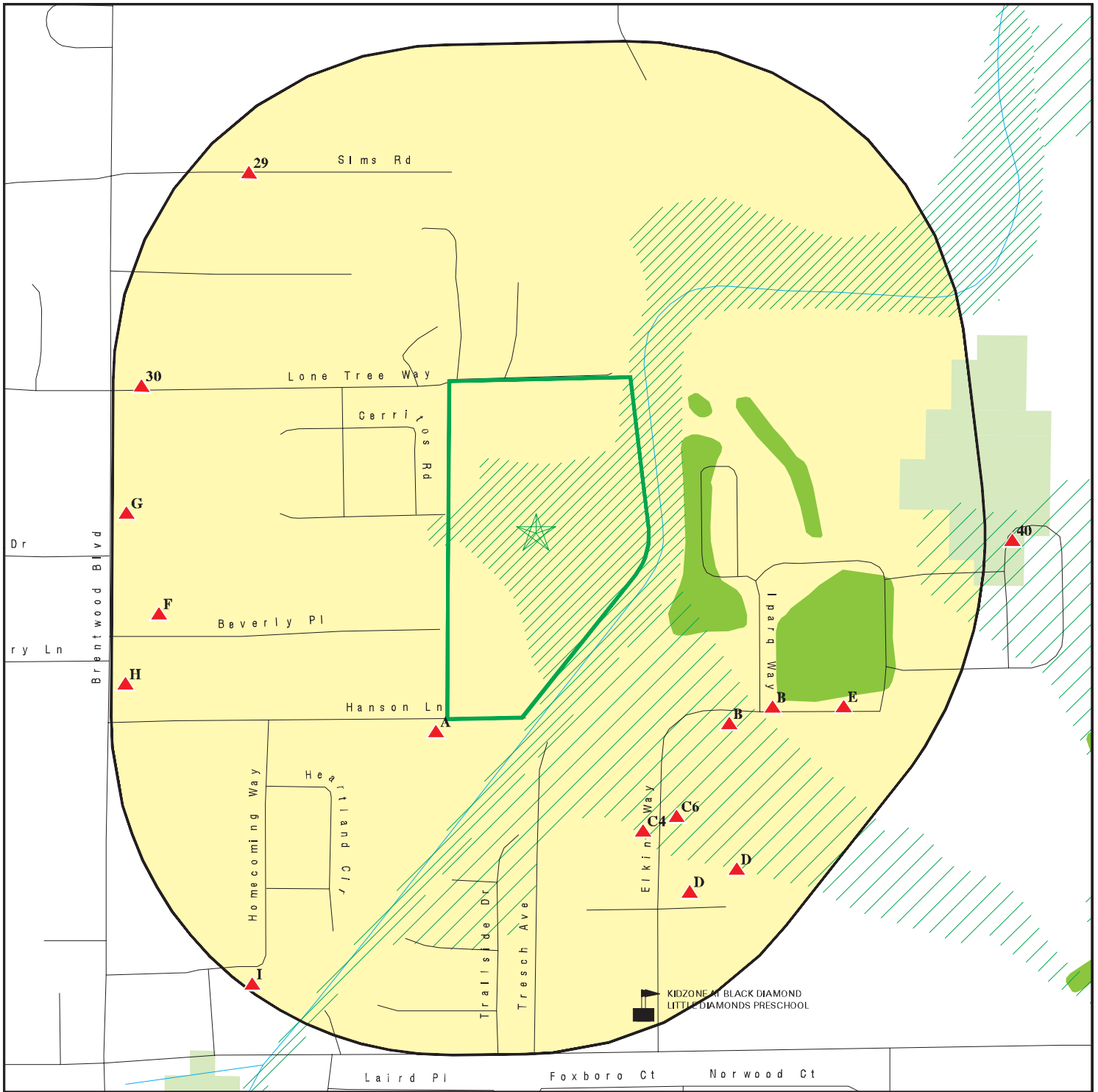


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Hanson Ranch
 ADDRESS: 251 Hanson Lane
 Brentwood CA 94513
 LAT/LONG: 37.960023 / 121.690289

CLIENT: Engeo Inc.
 CONTACT: Adrianna Lundberg
 INQUIRY #: 06226122.2r
 DATE: October 14, 2020 12:38 pm

DETAIL MAP - 06226122.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Hanson Ranch
 ADDRESS: 251 Hanson Lane
 Brentwood CA 94513
 LAT/LONG: 37.960023 / 121.690289

CLIENT: Engeo Inc.
 CONTACT: Adrianna Lundberg
 INQUIRY #: 06226122.2r
 DATE: October 14, 2020 12:39 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 | | | | | | | | |
| <i>Federal NPL site list</i> | | | | | | | | |
| 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 |
| <i>Federal Delisted NPL site list</i> | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>Federal CERCLIS list</i> | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal CERCLIS NFRAP site list</i> | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal RCRA CORRACTS facilities list</i> | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>Federal RCRA non-CORRACTS TSD facilities list</i> | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal RCRA generators list</i> | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-VSQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| <i>Federal institutional controls / engineering controls registries</i> | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal ERNS list</i> | | | | | | | | |
| ERNS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| <i>State- and tribal - equivalent NPL RESPONSE</i> | | | | | | | | |
| RESPONSE | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| <i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i> | | | | | | | | |
| ENVIROSTOR | 1.000 | | 0 | 0 | 0 | 4 | NR | 4 |
| <i>State and tribal landfill and/or solid waste disposal site lists</i> | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 1 | 0 | NR | NR | 1 |
| <i>State and tribal leaking storage tank lists</i> | | | | | | | | |
| LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |

MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CPS-SLIC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal registered storage tank lists | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 0 | 2 | NR | NR | NR | 2 |
| AST | 0.250 | | 1 | 1 | NR | NR | NR | 2 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| State and tribal voluntary cleanup sites | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| 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 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Local Lists of Hazardous waste / Contaminated Sites | | | | | | | | |
| US HIST CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST Cal-Sites | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| SCH | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CERS HAZ WASTE | 0.250 | | 0 | 8 | NR | NR | NR | 8 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| US CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PFAS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| 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 | | 1 | 3 | NR | NR | NR | 4 |
| Local Land Records | | | | | | | | |
| LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |

MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| LIENS 2 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Records of Emergency Release Reports | | | | | | | | |
| HMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CHMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MCS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 90 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Other Ascertainable Records | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 1 | 12 | NR | NR | NR | 13 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| TRIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SSTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RAATS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PRP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PADS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MLTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH DOE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RADINFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOT OPS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US AIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ABANDONED MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOCKET HWC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ECHO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| Cortese | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| 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 | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| ENF | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| Financial Assurance | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| HAZNET | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| ICE | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| HIST CORTESE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | |
| HWP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 | |
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 | |
| MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 | |
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 | |
| NPDES | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| PEST LIC | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | |
| Notify 65 | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 | |
| CONTRA COSTA CO. SITE USE | 0.250 | | 4 | 14 | NR | NR | NR | 18 | |
| UIC | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| UIC GEO | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| WASTEWATER PITS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 | |
| WDS | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| WIP | 0.250 | | 0 | 0 | NR | NR | NR | 0 | |
| MILITARY PRIV SITES PROJECT | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| WDR | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| CIWQS | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| CERS | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| NON-CASE INFO | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| OTHER OIL GAS | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| PROD WATER PONDS | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| SAMPLING POINT | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| WELL STIM PROJ | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| HWTS | TP | | NR | NR | NR | NR | NR | 0 | |
| MINES MRDS | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| <u>EDR HIGH RISK HISTORICAL RECORDS</u> | | | | | | | | | |
| <i>EDR Exclusive Records</i> | | | | | | | | | |
| 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 | |
| <u>EDR RECOVERED GOVERNMENT ARCHIVES</u> | | | | | | | | | |
| <i>Exclusive Recovered Govt. Archives</i> | | | | | | | | | |
| RGA LF | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| RGA LUST | 0.001 | | 0 | NR | NR | NR | NR | 0 | |
| - Totals -- | | | 0 | 7 | 41 | 1 | 7 | 0 | 56 |

MAP FINDINGS SUMMARY

| <u>Database</u> | <u>Search Distance (Miles)</u> | <u>Target Property</u> | <u>< 1/8</u> | <u>1/8 - 1/4</u> | <u>1/4 - 1/2</u> | <u>1/2 - 1</u> | <u>> 1</u> | <u>Total Plotted</u> |
|-----------------|--|----------------------------|-----------------|------------------|------------------|----------------|---------------|--------------------------|
|-----------------|--|----------------------------|-----------------|------------------|------------------|----------------|---------------|--------------------------|

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1 CITY OF BRENTWOOD WELL #8 CONTRA COSTA CO. SITE LIST S105850320
SSW 228 HANSON LN A N/A
< 1/8 BRENTWOOD, CA 94513
0.013 mi.
66 ft. Site 1 of 2 in cluster A

Relative: CONTRA COSTA CO. SITE LIST:
Higher Name: CITY OF BRENTWOOD WELL #8
Actual: Address: 228 HANSON LN A
56 ft. City: BRENTWOOD
Facility ID: FA0029908
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >10K-100K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 773238

A2 CITY OF BRENTWOOD WELL #7 CONTRA COSTA CO. SITE LIST S105850330
SSW 228 HANSON LN B N/A
< 1/8 BRENTWOOD, CA 94513
0.013 mi.
66 ft. Site 2 of 2 in cluster A

Relative: CONTRA COSTA CO. SITE LIST:
Higher Name: CITY OF BRENTWOOD WELL #7
Actual: Address: 228 HANSON LN B
56 ft. City: BRENTWOOD
Facility ID: FA0029912
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >10K-100K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 773242

B3 ANTIOCH BUILDING MATERIALS AST S109035154
SE 2170 ELKINS WAY CERS TANKS N/A
< 1/8 BRENTWOOD, CA 94513 EMI
0.118 mi. NPDES
622 ft. Site 1 of 6 in cluster B CONTRA COSTA CO. SITE LIST
CIWQS
CERS

Relative:
Higher
Actual: AST:
55 ft. Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City/Zip: BRENTWOOD,94513
Certified Unified Program Agencies: Not reported
Owner: ANTIOCH BUILDING MATERIALS
Total Gallons: Not reported
CERSID: 10019194
Facility ID: 07-000-773823
Business Name: ANTIOCH BUILDING MATERIALS
Phone: 9254320171
Fax: 9254329441
Mailing Address: PO Box 870
Mailing Address City: Antioch
Mailing Address State: CA
Mailing Address Zip Code: 94509

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Operator Name: ANTIOCH BUILDING MATERIALS/BRENTWOOD READYMIX
Operator Phone: 9254320171
Owner Phone: 9254320171
Owner Mail Address: PO Box 870
Owner State: CA
Owner Zip Code: 94509
Owner Country: United States
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: United States
EPAID: Not reported

CERS TANKS:

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 6075
CERS ID: 10019194
CERS Description: Aboveground Petroleum Storage

EMI:

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2008
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .336
Part. Matter 10 Micrometers and Smlr Tons/Yr.:30912

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2009
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.253
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.23275999999999999

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2010
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.27500000000000002
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.253

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2011
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2012
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.32482608696
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.298

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2013
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1.14
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.457

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2014
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.675314383
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.621289234

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2015
County Code: 7

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.847059414
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.779294584

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2016
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: Not reported
Reactive Organic Gases Tons/Yr: Not reported
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 0.51850727
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.47702669

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2017
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: Not reported
Reactive Organic Gases Tons/Yr: Not reported
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 0.481722589
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.443184782

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

City,State,Zip: BRENTWOOD, CA 94513
Year: 2018
County Code: 7
Air Basin: SF
Facility ID: 18249
Air District Name: BA
SIC Code: 2951
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: Not reported
Reactive Organic Gases Tons/Yr: Not reported
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: 5.64975812
Part. Matter 10 Micrometers and Smllr Tons/Yr:5.197777487

NPDES:

Name: BRENTWOOD READY MIX PLANT
Address: 2170 ELKINS WY
City,State,Zip: BRENTWOOD, CA 94528
Facility Status: Active
NPDES Number: CAS000001
Region: 5S
Agency Number: 0
Regulatory Measure ID: 326795
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 5S071020936
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 06/20/2007
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: PO Box 870
Discharge Name: Antioch Building Materials
Discharge City: Antioch
Discharge State: California
Discharge Zip: 94509
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 5S
Regulatory Measure ID: 326795
Order Number: Not reported
Regulatory Measure Type: Industrial

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

| | |
|---|----------------------------|
| Place ID: | Not reported |
| WDID: | 5S07I020936 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 05/09/2008 |
| Processed Date: | 06/20/2007 |
| Status: | Active |
| Status Date: | 06/20/2007 |
| Place Size: | 2.3 |
| Place Size Unit: | Acres |
| Contact: | Sloan Larsen |
| Contact Title: | Not reported |
| Contact Phone: | 925-432-0171 |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Antioch Building Materials |
| Operator Address: | PO Box 870 |
| Operator City: | Antioch |
| Operator State: | California |
| Operator Zip: | 94509 |
| Operator Contact: | SLOAN Larsen |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | 925-432-0171 |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Private Business |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | California |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commercial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

| | |
|---|--|
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | Brentwood City storm drain to Marsh Cree |
| Certifier: | Sloan Larsen |
| Certifier Title: | CEO |
| Certification Date: | 24-JUL-15 |
| Primary Sic: | 3273-Ready-Mixed Concrete |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| NPDES Number: | CAS000001 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 5S |
| Regulatory Measure ID: | 326795 |
| Order Number: | 97-03-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 5S071020936 |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 06/20/2007 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Antioch Building Materials |
| Discharge Address: | PO Box 870 |
| Discharge City: | Antioch |
| Discharge State: | California |
| Discharge Zip: | 94509 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commercial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported
Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported
Constype Utility Description: Not reported
Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported
Dir Discharge Uswater Ind: Not reported
Receiving Water Name: Not reported
Certifier: Not reported
Certifier Title: Not reported
Certification Date: Not reported
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

Name: BRENTWOOD READY MIX PLANT
Address: 2170 ELKINS WY
City,State,Zip: BRENTWOOD, CA 94528
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 5S071020936
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Active
Status Date: 06/20/2007
Operator Name: Antioch Building Materials

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Operator Address: PO Box 870
Operator City: Antioch
Operator State: California
Operator Zip: 94509

NPDES as of 03/2018:

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 5S
Regulatory Measure ID: 326795
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 5S07I020936
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 05/09/2008
Processed Date: 06/20/2007
Status: Active
Status Date: 06/20/2007
Place Size: 2.3
Place Size Unit: Acres
Contact: Sloan Larsen
Contact Title: Not reported
Contact Phone: 925-432-0171
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Antioch Building Materials
Operator Address: PO Box 870
Operator City: Antioch
Operator State: California
Operator Zip: 94509
Operator Contact: SLOAN Larsen
Operator Contact Title: Not reported
Operator Contact Phone: 925-432-0171
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Private Business
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: California
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

| | |
|---|--|
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commercial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | N |
| Receiving Water Name: | Brentwood City storm drain to Marsh Cree |
| Certifier: | Sloan Larsen |
| Certifier Title: | CEO |
| Certification Date: | 24-JUL-15 |
| Primary Sic: | 3273-Ready-Mixed Concrete |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| NPDES Number: | CAS000001 |
| Status: | Active |
| Agency Number: | 0 |
| Region: | 5S |
| Regulatory Measure ID: | 326795 |
| Order Number: | 97-03-DWQ |
| Regulatory Measure Type: | Enrollee |
| Place ID: | Not reported |
| WDID: | 5S071020936 |
| Program Type: | Industrial |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | 06/20/2007 |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name: | Antioch Building Materials |
| Discharge Address: | PO Box 870 |
| Discharge City: | Antioch |
| Discharge State: | California |
| Discharge Zip: | 94509 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commercial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported
Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported
Constype Utility Description: Not reported
Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported
Dir Discharge Uswater Ind: Not reported
Receiving Water Name: Not reported
Certifier: Not reported
Certifier Title: Not reported
Certification Date: Not reported
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

CONTRA COSTA CO. SITE LIST:

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WY
City: BRENTWOOD
Facility ID: FA0030492
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: APSA: 10K - <100K GALLONS
Region: CONTRA COSTA
Cupa Number: 773823

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

City: BRENTWOOD
Facility ID: FA0030492
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >100K-250K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 773823

CIWQS:

Name: BRENTWOOD READY MIX PLANT
Address: 2170 ELKINS WY
City,State,Zip: BRENTWOOD, CA 94528
Agency: Antioch Building Materials
Agency Address: PO Box 870, Antioch, CA 94509
Place/Project Type: Industrial - Ready-Mixed Concrete
SIC/NAICS: 3273
Region: 5S
Program: INDSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 5S071020936
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 06/20/2007
Termination Date: Not reported
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 2
Violations within 5 years: 2
Latitude: 37.9319
Longitude: -121.69581

CERS:

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 6075
CERS ID: 10019194
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 9/4/2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards.
Violation Notes: OBSERVATION: Failure to ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards. CORRECTIVE ACTION: Ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to conduct spill prevention briefing for oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan.

Violation Notes: Returned to compliance on 12/28/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Training - General
Violation Notes: Returned to compliance on 12/28/2016. OBSERVATION: Employees currently receive training but do not have documentation of Business Plan related training. CORRECTIVE ACTION: Conduct annual business plan training and send a copy of attendance sheet to CCHSHMP for verification and keep a copy for at least 3 years. If training has already occurred in the last 12 months please provide documentation to CCHSHMP.

Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/28/2016. OBSERVATION: ConcreteOvernightMFG (125 gal) has been replaced by a 330 gal Molecular Cement Dissolver (Black Set) - which is a greater than 100% increase. Other chemicals under reported - VMAR3 recently upgraded to a 500 gal tank and so did VMARF100. CORRECTIVE ACTION: Replace ConcreteOvernight with new max quantities and chemical name. Update VMAR3 & VMARF100 to reflect new 500 gal container. Consider updating location in CERS for chemicals stored in ADMIX container area to ADMIX instead of shop and updating relevant compounds to reflect storage in a Aboveground Tank if applicable (ex: VMAR3, DARASET400, ADVA140). Submit Via CERS.

Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Violation Date: 8/5/2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/21/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 8/5/2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/06/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Not reported
Violation Notes: Returned to compliance on 12/28/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to comply with one or more of the following requirements: 1. Have record of inspections and integrity tests signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and integrity tests for at least three years. 3. Keep comparison records.
Violation Notes: Returned to compliance on 12/28/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 9/4/2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to implement the SPCC Plan.
Violation Notes: OBSERVATION: Failure to implement SPCC. CORRECTIVE ACTION: Implement SPCC.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 9/4/2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: OBSERVATION: The business failed to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. CORRECTIVE ACTION: Complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page in CERS with all updated information.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-16-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2016
Violations Found: Yes
Eval Type: Routine done by local agency

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-06-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-16-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-06-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-05-2014

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 09-04-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 09-04-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 11-30-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 11-30-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 6075
Facility Name: ANTIOCH BUILDING MATERIALS
Env Int Type Code: FRS-AIR
Program ID: 110054317397
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.957570
Longitude: -121.687860

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 870
Affiliation City: Antioch
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94509
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: ANTIOCH BUILDING MATERIALS
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: Legal Owner
Entity Name: ANTIOCH BUILDING MATERIALS
Entity Title: Not reported
Affiliation Address: PO Box 870
Affiliation City: Antioch
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94509
Affiliation Phone: (925) 432-0171

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Affiliation Type Desc: Operator
Entity Name: ANTIOCH BUILDING MATERIALS/BRENTWOOD READYMIX
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 432-0171

Affiliation Type Desc: Document Preparer
Entity Name: Amanda Ackerman
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: Identification Signer
Entity Name: Sloan Larsen
Entity Title: CFO
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Environmental Contact
Entity Name: SLOAN LARSEN
Entity Title: Not reported
Affiliation Address: PO Box 870
Affiliation City: Antioch
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94509
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: SLOAN LARSEN
Entity Title: Not reported
Affiliation Address: POBOX 870
Affiliation City: ANTIOCH
Affiliation State: Not reported
Affiliation Country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: ANTIOCH BUILDING MATERIALS
Address: 2170 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 6075
CERS ID: 110054317397
CERS Description: US EPA Air Emission Inventory System (EIS)

Violations:

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 9/4/2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards.
Violation Notes: OBSERVATION: Failure to ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards. CORRECTIVE ACTION: Ensure that tanks are inspected and tested by an appropriately qualified person in accordance with industry standards.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to conduct spill prevention briefing for oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan.
Violation Notes: Returned to compliance on 12/28/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Training - General
Violation Notes: Returned to compliance on 12/28/2016. OBSERVATION: Employees currently receive training but do not have documentation of Business Plan related training. CORRECTIVE ACTION: Conduct annual business plan training and send a copy of attendance sheet to CCHSHMP for verification and keep a copy for at least 3 years. If training has already occurred in the last 12 months please provide documentation to CCHSHMP.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/28/2016. OBSERVATION: ConcreteOvernightMFG (125 gal) has been replaced by a 330 gal Molecular Cement Dissolver (Black Set) - which is a greater than 100% increase. Other chemicals under reported - VMAR3 recently upgraded to a 500 gal tank and so did VMARF100. CORRECTIVE ACTION: Replace ConcreteOvernight with new max quantities and chemical name. Update VMAR3 & VMARF100 to reflect new 500 gal container. Consider updating location in CERS for chemicals stored in ADMIX container area to ADMIX instead of shop and updating relevant compounds to reflect storage in a Aboveground Tank if applicable (ex: VMAR3, DARASET400, ADVA140). Submit Via CERS.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 8/5/2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: APSA Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/21/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 8/5/2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/06/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Not reported
Violation Notes: Returned to compliance on 12/28/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 11/30/2016

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to comply with one or more of the following requirements: 1. Have record of inspections and integrity tests signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and integrity tests for at least three years. 3. Keep comparison records.
Violation Notes: Returned to compliance on 12/28/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 9/4/2019
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to implement the SPCC Plan.
Violation Notes: OBSERVATION: Failure to implement SPCC. CORRECTIVE ACTION: Implement SPCC.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Violation Date: 9/4/2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: OBSERVATION: The business failed to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. CORRECTIVE ACTION: Complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page in CERS with all updated information.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-16-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-06-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-16-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Eval Date: 01-06-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 09-04-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 09-04-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 11-30-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 6075
Site Name: ANTIOCH BUILDING MATERIALS
Site Address: 2170 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 11-30-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:

Site ID: 6075
Facility Name: ANTIOCH BUILDING MATERIALS
Env Int Type Code: FRS-AIR
Program ID: 110054317397
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.957570
Longitude: -121.687860

Affiliation:

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 870
Affiliation City: Antioch
Affiliation State: CA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Affiliation Country: Not reported
Affiliation Zip: 94509
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: ANTIOCH BUILDING MATERIALS
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: Legal Owner
Entity Name: ANTIOCH BUILDING MATERIALS
Entity Title: Not reported
Affiliation Address: PO Box 870
Affiliation City: Antioch
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94509
Affiliation Phone: (925) 432-0171

Affiliation Type Desc: Operator
Entity Name: ANTIOCH BUILDING MATERIALS/BRENTWOOD READYMIX
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 432-0171

Affiliation Type Desc: Document Preparer
Entity Name: Amanda Ackerman
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: Identification Signer
Entity Name: Sloan Larsen
Entity Title: CFO
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Environmental Contact
Entity Name: SLOAN LARSEN
Entity Title: Not reported
Affiliation Address: PO Box 870
Affiliation City: Antioch
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94509
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: SLOAN LARSEN
Entity Title: Not reported
Affiliation Address: POBOX 870
Affiliation City: ANTIOCH
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: BRENTWOOD READY MIX PLANT
Address: 2170 ELKINS WY
City, State, Zip: BRENTWOOD, CA 94528
Site ID: 527850
CERS ID: 651912
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Violation Date: 7/2/2009
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2008-2009 Annual Report. Section B requires all annual reports to be submitted by July 1st each year. Discharger did not submit report by July 1st.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Violation Date: 7/2/2008
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2007-2008 Annual Report. Section B requires all annual reports to be submitted by July 1st each year. Discharger did not submit report.
Violation Division: Water Boards
Violation Program: INDSTW

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Violation Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Violation Date: 2/15/2019
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Failure to collect and analyze storm water samples
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Violation Date: 7/2/2013
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit annual report by July 1, 2013.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Violation Date: 11/20/2014
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Failure to Submit Complete Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Violation Date: 7/15/2016
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: late 15/16 annual report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2014
Violations Found: Yes
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: On 20 November 2014, Central Valley Regional Water Quality Control Board staff inspected the Brentwood Ready Mix Plant. The plant is located at 2170 Elkins Way in Brentwood. At the time of the site inspection, the facility was not operational; however, staff was onsite repairing equipment. The Storm Water Pollution Prevention Plan (SWPPP) was generally complete. Staff met with Robert Turcotte. The entire 2.3 acre facility had a concrete surface. The facility included a batch plant, re-claimer, process water slurry tank, process water retention area, water supply island, onsite fuel tank, raw material storage areas, storm water infiltration trap and a maintenance shop.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Batch plant, re-claimer, process water slurry tank, process water retention area --> The process water on the facility was directed by a concrete berm back to the batch plant area. The berm extended along the eastern side of the batch plant. Process water flowed into a process water retention area and was then pumped to a process water slurry tank. In addition to the slurry tank, multiple 12,000 gallon storage tanks were used to store process water (see attached site map and photographs).

Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-02-2017
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: See inspection report.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Enforcement Action:

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Site Address: 2170 ELKINS WY
Site City: BRENTWOOD
Site Zip: 94528
Enf Action Date: 02-15-2019
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 13267/NOV for Failure to Collect and Analyze Storm Water Samples
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Site Address: 2170 ELKINS WY
Site City: BRENTWOOD
Site Zip: 94528
Enf Action Date: 07-23-2009
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 1st NONC 08/09 Late Annual Report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Site Address: 2170 ELKINS WY
Site City: BRENTWOOD
Site Zip: 94528
Enf Action Date: 08-01-2008
Enf Action Type: Notice of Non-Compliance for Non-Filers
Enf Action Description: Notice of Non-Compliance for Non-Filers
Enf Action Notes: 1st NONC 07/08 Late Annual Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANTIOCH BUILDING MATERIALS (Continued)

S109035154

Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Site Address: 2170 ELKINS WY
Site City: BRENTWOOD
Site Zip: 94528
Enf Action Date: 08-16-2013
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: NNC for late annual report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Site Address: 2170 ELKINS WY
Site City: BRENTWOOD
Site Zip: 94528
Enf Action Date: 09-12-2016
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 1st NNC for late 15/16 annual report
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Site ID: 527850
Site Name: Brentwood Ready Mix Plant
Site Address: 2170 ELKINS WY
Site City: BRENTWOOD
Site Zip: 94528
Enf Action Date: 12-09-2014
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: Letter to complete future annual reports
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Affiliation:

Affiliation Type Desc: Owner/Operator
Entity Name: Antioch Building Materials
Entity Title: Operator
Affiliation Address: PO Box 870
Affiliation City: Antioch
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94509
Affiliation Phone: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

C4
SSE
 < 1/8
 0.123 mi.
 649 ft.

KITCHEN MAKE-OVERS
2145 ELKINS WAY, STE. H
BRENTWOOD, CA 94513

RCRA NonGen / NLR

1025840175
CAC003019776

Site 1 of 2 in cluster C

Relative:
Higher
Actual:
55 ft.

| | |
|---|---|
| <p>RCRA Listings:</p> <p>Date Form Received by Agency:</p> <p>Handler Name:</p> <p>Handler Address:</p> <p>Handler City,State,Zip:</p> <p>EPA ID:</p> <p>Contact Name:</p> <p>Contact Address:</p> <p>Contact City,State,Zip:</p> <p>Contact Telephone:</p> <p>Contact Fax:</p> <p>Contact Email:</p> <p>Contact Title:</p> <p>EPA Region:</p> <p>Land Type:</p> <p>Federal Waste Generator Description:</p> <p>Non-Notifier:</p> <p>Biennial Report Cycle:</p> <p>Accessibility:</p> <p>Active Site Indicator:</p> <p>State District Owner:</p> <p>State District:</p> <p>Mailing Address:</p> <p>Mailing City,State,Zip:</p> <p>Owner Name:</p> <p>Owner Type:</p> <p>Operator Name:</p> <p>Operator Type:</p> <p>Short-Term Generator Activity:</p> <p>Importer Activity:</p> <p>Mixed Waste Generator:</p> <p>Transporter Activity:</p> <p>Transfer Facility Activity:</p> <p>Recycler Activity with Storage:</p> <p>Small Quantity On-Site Burner Exemption:</p> <p>Smelting Melting and Refining Furnace Exemption:</p> <p>Underground Injection Control:</p> <p>Off-Site Waste Receipt:</p> <p>Universal Waste Indicator:</p> <p>Universal Waste Destination Facility:</p> <p>Federal Universal Waste:</p> <p>Active Site Fed-Reg Treatment Storage and Disposal Facility:</p> <p>Active Site Converter Treatment storage and Disposal Facility:</p> <p>Active Site State-Reg Treatment Storage and Disposal Facility:</p> <p>Active Site State-Reg Handler:</p> <p>Federal Facility Indicator:</p> <p>Hazardous Secondary Material Indicator:</p> <p>Sub-Part K Indicator:</p> <p>Commercial TSD Indicator:</p> <p>Treatment Storage and Disposal Type:</p> <p>2018 GPRA Permit Baseline:</p> <p>2018 GPRA Renewals Baseline:</p> <p>Permit Renewals Workload Universe:</p> | <p>2019-06-14 00:00:00.0</p> <p>KITCHEN MAKE-OVERS</p> <p>2145 ELKINS WAY, STE. H</p> <p>BRENTWOOD, CA 94513</p> <p>CAC003019776</p> <p>JOANN BAKER</p> <p>2145 ELKINS WAY, STE. H</p> <p>BRENTWOOD, CA 94513</p> <p>925-240-5002</p> <p>Not reported</p> <p>KITCHENMAKEOVERS@SBCGLOBAL.NET</p> <p>Not reported</p> <p>09</p> <p>Not reported</p> <p>Not a generator, verified</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Handler Activities</p> <p>Not reported</p> <p>Not reported</p> <p>2145 ELKINS WAY, STE. H</p> <p>BRENTWOOD, CA 94513</p> <p>JEFF BAKER</p> <p>Other</p> <p>JOANN BAKER</p> <p>Other</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>---</p> <p>Not reported</p> <p>N</p> <p>Not reported</p> <p>No</p> <p>Not reported</p> <p>Not on the Baseline</p> <p>Not on the Baseline</p> <p>Not reported</p> |
|---|---|

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KITCHEN MAKE-OVERS (Continued)

1025840175

| | |
|---|-----------------------|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2019-06-27 14:20:00.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|--------------------------------|-------------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | JEFF BAKER |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2145 ELKINS WAY, STE. H |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-240-5002 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|--------------------------------|-------------------------|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JOANN BAKER |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2145 ELKINS WAY, STE. H |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-240-5002 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KITCHEN MAKE-OVERS (Continued)

1025840175

Historic Generators:

Receive Date: 2019-06-14 00:00:00.0
Handler Name: KITCHEN MAKE-OVERS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

B5
SE
< 1/8
0.123 mi.
649 ft.

CITY OF BRENTWOOD WELL 15
2222 ELKINS WAY
BRENTWOOD, CA 94513
Site 2 of 6 in cluster B

CONTRA COSTA CO. SITE LIST
CERS

S121737970
N/A

Relative:
Higher
Actual:
55 ft.

CONTRA COSTA CO. SITE LIST:

Name: CITY OF BRENTWOOD WELL #15
Address: 2222 ELKINS WY
City: BRENTWOOD
Facility ID: FA0030500
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >10K-100K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 773831

CERS:

Name: CITY OF BRENTWOOD WELL 15
Address: 2222 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 105912
CERS ID: 10019218
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 105912
Site Name: CITY OF BRENTWOOD WELL 15
Violation Date: 8/5/2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD WELL 15 (Continued)

S121737970

Violation Description: 6.95, Section(s) 25508(a)(1)
Failure to complete and electronically submit a site map with all required content.

Violation Notes: Returned to compliance on 08/21/2019. OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Complete and electronically submit a site map with all required content.

Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 105912
Site Name: CITY OF BRENTWOOD WELL 15
Violation Date: 10/12/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 10/13/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-05-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-12-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-11-2019
Violations Found: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD WELL 15 (Continued)

S121737970

Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:

Site ID: 105912
Site Name: CITY OF BRENTWOOD WELL 15
Site Address: 2222 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-05-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 105912
Site Name: CITY OF BRENTWOOD WELL 15
Site Address: 2222 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-12-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:

Site ID: 105912
Facility Name: CITY OF BRENTWOOD WELL 15
Env Int Type Code: HMBP
Program ID: 10019218
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.957736
Longitude: -121.688567

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: Kelly Martinez
Entity Title: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD WELL 15 (Continued)

S121737970

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: Identification Signer
Entity Name: Chris Ehlers
Entity Title: Assistant Director of Public Works/Operations
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Legal Owner
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-5400

Affiliation Type Desc: Parent Corporation
Entity Name: CITY OF BRENTWOOD PUBLIC WORKS WELL 15
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: City of Brentwood
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-5400

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CITY OF BRENTWOOD WELL 15 (Continued)

S121737970

Affiliation Type Desc: Environmental Contact
 Entity Name: Kelly Martinez
 Entity Title: Not reported
 Affiliation Address: 150 City Park Way
 Affiliation City: BRENTWOOD
 Affiliation State: CA
 Affiliation Country: Not reported
 Affiliation Zip: 94513
 Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
 Entity Name: Mailing Address
 Entity Title: Not reported
 Affiliation Address: 150 City Park Way
 Affiliation City: Brentwood
 Affiliation State: CA
 Affiliation Country: Not reported
 Affiliation Zip: 94513
 Affiliation Phone: Not reported

Affiliation Type Desc: Operator
 Entity Name: Chris Ehlers
 Entity Title: Not reported
 Affiliation Address: Not reported
 Affiliation City: Not reported
 Affiliation State: Not reported
 Affiliation Country: Not reported
 Affiliation Zip: Not reported
 Affiliation Phone: (925) 516-6000

C6
SSE
 1/8-1/4
 0.135 mi.
 714 ft.

SUMMIT BUILDING SVCS
2150 ELKINS WAY
BRENTWOOD, CA 94513
 Site 2 of 2 in cluster C

HAZNET
PEST LIC
CONTRA COSTA CO. SITE LIST
HWTS

S112979321
N/A

Relative:
Higher
Actual:
55 ft.

HAZNET:
 Name: SUMMIT BUILDING SVCS
 Address: 2150 ELKINS WAY
 Address 2: Not reported
 City,State,Zip: BRENTWOOD, CA 945137356
 Contact: MATT COLCHICO
 Telephone: 9258279500
 Mailing Name: Not reported
 Mailing Address: 1128 WILLOW PASS CT

Year: 2009
 Gepaid: CAC002644556
 TSD EPA ID: NVD980895338
 CA Waste Code: -
 Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
 Tons: 0.3753

Year: 2009
 Gepaid: CAC002644556
 TSD EPA ID: NVD980895338

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUMMIT BUILDING SVCS (Continued)

S112979321

CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No
Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.418

Additional Info:

Year: 2009
Gen EPA ID: CAC002644556

Shipment Date: 20091022
Creation Date: 5/20/2010 18:30:18
Receipt Date: 20091103
Manifest ID: 005521485JJK
Trans EPA ID: CAR000164012
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
Trans 2 EPA ID: UTR000007708
Trans 2 Name: SLT EXPRESS WAY INC
TSDf EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No
Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.3753
Waste Quantity: 90
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20090728
Creation Date: 1/8/2010 18:30:35
Receipt Date: 20090803
Manifest ID: 005519892JJK
Trans EPA ID: CAR000164012
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
Trans 2 EPA ID: UTR000007708
Trans 2 Name: SLT EXPRESS WAY INC
TSDf EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No
Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.418
Waste Quantity: 110
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUMMIT BUILDING SVCS (Continued)

S112979321

Additional Code 4: Not reported
Additional Code 5: Not reported

PEST LIC:

Name: MCCAULEY AGRICULTURAL & PEST SERVICE INC
Address: 2150 ELKINS WAY #205
City,State,Zip: BRENTWOOD, CA 94513
Facility Type: PCM
Categories: Not reported
License No: 39829
Issued or Renewed Date: 01/01/2020
Expiration Date: 12/31/2021

Name: AGUSTIN TORRES
Address: 2150 ELKINS WY STE 205
City,State,Zip: BRENTWOOD, CA 94513
Facility Type: QAC
Categories: Q
License No: 125782
Issued or Renewed Date: 01/01/2020
Expiration Date: 12/31/2021

Name: GLEN MCCAULEY
Address: 2150 ELKINS WAY STE 205
City,State,Zip: BRENTWOOD, CA 94513
Facility Type: QAL
Categories: BC
License No: 101016
Issued or Renewed Date: 01/01/2020
Expiration Date: 12/31/2021

Name: REBECCA L PERDUE
Address: 2150 ELKINS WAY STE #205
City,State,Zip: BRENTWOOD, CA 94513
Facility Type: QAL
Categories: B
License No: 132385
Issued or Renewed Date: 01/01/2020
Expiration Date: 12/31/2021

CONTRA COSTA CO. SITE LIST:

Name: SAFARILAND LLC
Address: 2150 ELKINS WY
City: BRENTWOOD
Facility ID: FA0036191
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: LESS THAN 5 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 774997

HWTS:

Name: SUMMIT BUILDING SVCS
Address: 2150 ELKINS WAY
Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 945137356

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUMMIT BUILDING SVCS (Continued)

S112979321

EPA ID: CAC002644556
Inactive Date: 01/18/2010
Create Date: 07/21/2009
Last Act Date: 01/20/2010
Mailing Name: Not reported
Mailing Address: 1128 WILLOW PASS CT
Mailing Address 2: Not reported
Mailing City,State,Zip: CONCORD, CA 945201006
Owner Name: SUMMIT BUILDING SVCS
Owner Address: 1128 WILLOW PASS CT
Owner Address 2: Not reported
Owner City,State,Zip: CONCORD, CA 945201006
Contact Name: MATT COLCHICO
Contact Address: 1128 WILLOW PASS CT
Contact Address 2: Not reported
City,State,Zip: CONCORD, CA 945201006

**B7
SE
1/8-1/4
0.141 mi.
742 ft.**

**TREESCAPE CORPORATION YARD
2201 ELKINS WAY
BRENTWOOD, CA 94513
Site 3 of 6 in cluster B**

**CERS HAZ WASTE
CERS TANKS
NPDES
CIWQS
CERS**

**S117624657
N/A**

**Relative:
Higher
Actual:
56 ft.**

CERS HAZ WASTE:
Name: CITY OF BRENTWOOD CORPORATION YARD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 388200
CERS ID: 10018390
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: CITY OF BRENTWOOD CORPORATION YARD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 388200
CERS ID: 10018390
CERS Description: Aboveground Petroleum Storage

NPDES:
Name: TREESCAPE CORPORATION YARD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 5S07C372251
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Terminated
Status Date: 10/28/2015
Operator Name: City of Brentwood
Operator Address: 150 City Park Way
Operator City: Brentwood
Operator State: California
Operator Zip: 94513

NPDES as of 03/2018:
NPDES Number: CAS000002
Status: Terminated
Agency Number: 0
Region: 5S
Regulatory Measure ID: 452817
Order Number: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 5S07C372251
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 02/25/2015
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: 10/28/2015
Discharge Name: City of Brentwood
Discharge Address: 150 City Park Way
Discharge City: Brentwood
Discharge State: California
Discharge Zip: 94513
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

| | |
|---|--------------|
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commercial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |
| Tertiary Sic: | Not reported |
| NPDES Number: | Not reported |
| Status: | Not reported |
| Agency Number: | Not reported |
| Region: | 5S |
| Regulatory Measure ID: | 452817 |
| Order Number: | Not reported |
| Regulatory Measure Type: | Construction |
| Place ID: | Not reported |
| WDID: | 5S07C372251 |
| Program Type: | Not reported |
| Adoption Date Of Regulatory Measure: | Not reported |
| Effective Date Of Regulatory Measure: | Not reported |
| Expiration Date Of Regulatory Measure: | Not reported |
| Termination Date Of Regulatory Measure: | 10/28/2015 |
| Discharge Name: | Not reported |
| Discharge Address: | Not reported |
| Discharge City: | Not reported |
| Discharge State: | Not reported |
| Discharge Zip: | Not reported |
| Received Date: | 02/17/2015 |
| Processed Date: | 02/25/2015 |
| Status: | Terminated |
| Status Date: | 10/28/2015 |
| Place Size: | 3 |
| Place Size Unit: | Acres |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Contact: Anthony Salam
Contact Title: CIP Manager
Contact Phone: 925-516-5158
Contact Phone Ext: Not reported
Contact Email: asalam@brentwoodca.gov
Operator Name: City of Brentwood
Operator Address: 150 City Park Way
Operator City: Brentwood
Operator State: California
Operator Zip: 94513
Operator Contact: Anthony Salam
Operator Contact Title: CIP Manager
Operator Contact Phone: 925-516-5158
Operator Contact Phone Ext: Not reported
Operator Contact Email: asalam@brentwoodca.gov
Operator Type: City/Town Agency
Developer: City of Brentwood
Developer Address: 708 Third Street
Developer City: Brentwood
Developer State: California
Developer Zip: 94513
Developer Contact: Anthony Salam
Developer Contact Title: CIP Manager
Constype Linear Utility Ind: N
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: N
Constype Below Ground Ind: N
Constype Cable Line Ind: N
Constype Comm Line Ind: N
Constype Commercial Ind: N
Constype Electrical Line Ind: N
Constype Gas Line Ind: N
Constype Industrial Ind: N
Constype Other Description: Landscaping
Constype Other Ind: Y
Constype Recons Ind: N
Constype Residential Ind: N
Constype Transport Ind: N
Constype Utility Description: Not reported
Constype Utility Ind: N
Constype Water Sewer Ind: N
Dir Discharge Uswater Ind: Y
Receiving Water Name: Marsh Creek
Certifier: Anthony Salam
Certifier Title: CIP Manager
Certification Date: 17-FEB-15
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

CIWQS:

Name: TREESCAPE CORPORATION YARD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Agency: City of Brentwood

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Agency Address: 150 City Park Way, Brentwood, CA 94513
Place/Project Type: Construction - Other: Landscaping
SIC/NAICS: Not reported
Region: 5S
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 5S07C372251
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 02/25/2015
Termination Date: 10/28/2015
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 37.95818
Longitude: -121.68655

CERS:

Name: CITY OF BRENTWOOD CORPORATION YARD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 388200
CERS ID: 10018390
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Violation Date: 6/17/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/22/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Violation Date: 6/17/2016
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to address in the SPCC Plan the type of oil and storage capacity for each fixed container, and either the type of oil and storage capacity for each mobile or portable container, or an estimate of the potential number of mobile or portable containers, the types of oil, and anticipated storage capacities.
Violation Notes: Returned to compliance on 09/01/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Violation Date: 6/17/2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/21/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Violation Date: 6/17/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 06/21/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Violation Date: 5/18/2018
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: Returned to compliance on 06/20/2018. OBSERVATION: Waste antifreeze has been on site for greater than 180 days. CORRECTIVE ACTION: Have waste antifreeze removed by a hazardous waste hauler. Send copy of manifest to CCHSHMP.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Violation Date: 5/18/2018
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description: Failure to have technical amendment(s) certified by a licensed professional engineer.
Violation Notes: Returned to compliance on 06/20/2018. OBSERVATION: Failure to have Technical Amendment(s) that materially affect the potential for a discharge certified by a professional engineer. Facility revised SPCC Plan in 2016 (added tanks/containers, revised secondary containment) but plan was not certified by a PE. Ensure tank/container SS-01 is included in SPCC Plan. CORRECTIVE ACTION: All Technical Amendments

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

listed above must be reviewed, modified as necessary and certified by a professional engineer. Facility shall ensure 5 year review is performed/documented by PE due to technical amendments.

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Violation Date: 8/8/2019
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)

Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.

Violation Notes: Returned to compliance on 08/22/2019. OBSERVATION: Owner/Operator is a small quantity generator and failed to send hazardous waste off site for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles), or has failed to comply with the conditions of CCR 66262.34(d) and has stored hazardous waste over 90 days. CORRECTIVE ACTION: Dispose of hazardous waste that has been stored over the applicable time limit and provide documentation that the violation has been corrected.

Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Violation Date: 8/8/2019
Citation: HSC 6.67 25270.6(a)(1), 25270.6(a)(2) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(a)(1), 25270.6(a)(2)

Violation Description: Failure to submit a tank facility statement on or before January 1 annually unless a current Business Plan has been submitted.

Violation Notes: Returned to compliance on 08/30/2019. OBSERVATION: Failure to submit a Tank Facility Statement or Business Plan. Wrong facility statement uploaded to CERS. CORRECTIVE ACTION: Submit a Tank Facility Statement or Business Plan.

Violation Division: Contra Costa County Health Services Department
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-28-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-18-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-18-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-19-2018
Violations Found: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-18-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-19-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-13-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-17-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-01-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Site Address: 2201 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 05-18-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

| | |
|-------------------------|---|
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | APSA |
| Enf Action Source: | CERS |
| Site ID: | 388200 |
| Site Name: | CITY OF BRENTWOOD CORPORATION YARD |
| Site Address: | 2201 ELKINS WAY |
| Site City: | BRENTWOOD |
| Site Zip: | 94513 |
| Enf Action Date: | 05-18-2018 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |
| Site ID: | 388200 |
| Site Name: | CITY OF BRENTWOOD CORPORATION YARD |
| Site Address: | 2201 ELKINS WAY |
| Site City: | BRENTWOOD |
| Site Zip: | 94513 |
| Enf Action Date: | 06-17-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | APSA |
| Enf Action Source: | CERS |
| Site ID: | 388200 |
| Site Name: | CITY OF BRENTWOOD CORPORATION YARD |
| Site Address: | 2201 ELKINS WAY |
| Site City: | BRENTWOOD |
| Site Zip: | 94513 |
| Enf Action Date: | 06-17-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |
| Site ID: | 388200 |
| Site Name: | CITY OF BRENTWOOD CORPORATION YARD |
| Site Address: | 2201 ELKINS WAY |
| Site City: | BRENTWOOD |
| Site Zip: | 94513 |
| Enf Action Date: | 06-17-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | Contra Costa County Health Services Department |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Site Address: 2201 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-08-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: APSA
Enf Action Source: CERS

Site ID: 388200
Site Name: CITY OF BRENTWOOD CORPORATION YARD
Site Address: 2201 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-08-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:

Site ID: 388200
Facility Name: CITY OF BRENTWOOD CORPORATION YARD
Env Int Type Code: APSA
Program ID: 10018390
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.958155
Longitude: -121.687027

Affiliation:

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Legal Owner
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-5400

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Affiliation Type Desc: Operator
Entity Name: Brentwood Public Works Corporation Yard
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 516-6000

Affiliation Type Desc: Environmental Contact
Entity Name: Kelly Martinez
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Kelly Martinez
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: BRENTWOOD PUBLIC WORKS CORP YARD
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: Identification Signer
Entity Name: Chris Ehlers
Entity Title: Assistant Director of Public Works/Operations
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TREESCAPE CORPORATION YARD (Continued)

S117624657

Affiliation Zip: Not reported
 Affiliation Phone: Not reported

B8
SE
1/8-1/4
0.141 mi.
742 ft.

CITY OF BRENTWOOD PUBLIC WORKS
2201 ELKINS WAY BLDG D
BRENTWOOD, CA 94513
Site 4 of 6 in cluster B

RCRA NonGen / NLR 1024807599
CAL000275201

Relative:
Higher
Actual:
56 ft.

| | |
|--|--------------------------------|
| RCRA Listings: | |
| Date Form Received by Agency: | 2003-10-01 00:00:00.0 |
| Handler Name: | CITY OF BRENTWOOD PUBLIC WORKS |
| Handler Address: | 2201 ELKINS WAY BLDG D |
| Handler City,State,Zip: | BRENTWOOD, CA 94513 |
| EPA ID: | CAL000275201 |
| Contact Name: | SCOTT DEMPSEY |
| Contact Address: | 150 CITY PARK WAY |
| Contact City,State,Zip: | BRENTWOOD, CA 94513 |
| Contact Telephone: | 925-516-6000 |
| Contact Fax: | 925-516-6001 |
| Contact Email: | KMARTINEZ@BRENTWOODCA.GOV |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 150 CITY PARK WAY |
| Mailing City,State,Zip: | BRENTWOOD, CA 94513-1164 |
| Owner Name: | CITY OF BRENTWOOD |
| Owner Type: | Other |
| Operator Name: | SCOTT DEMPSEY |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CITY OF BRENTWOOD PUBLIC WORKS (Continued)

1024807599

| | |
|---|-----------------------|
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 20:25:16.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|--------------------------------|--------------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CITY OF BRENTWOOD |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 150 CITY PARK WAY |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513-0000 |
| Owner/Operator Telephone: | 925-516-6000 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|--------------------------------|---------------------|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SCOTT DEMPSEY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 150 CITY PARK WAY |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CITY OF BRENTWOOD PUBLIC WORKS (Continued)

1024807599

Owner/Operator Telephone: 925-516-6000
 Owner/Operator Telephone Ext: Not reported
 Owner/Operator Fax: Not reported
 Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2003-10-01 00:00:00.0
 Handler Name: CITY OF BRENTWOOD PUBLIC WORKS
 Federal Waste Generator Description: Not a generator, verified
 State District Owner: Not reported
 Large Quantity Handler of Universal Waste: No
 Recognized Trader Importer: No
 Recognized Trader Exporter: No
 Spent Lead Acid Battery Importer: No
 Spent Lead Acid Battery Exporter: No
 Current Record: Yes
 Non Storage Recycler Activity: Not reported
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811111
 NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

B9
SE
 1/8-1/4
 0.141 mi.
 742 ft.

MUNICIPAL SERVICES CENTER
2201 ELKINS WAY
BRENTWOOD, CA 94513
Site 5 of 6 in cluster B

EMI S107620519
NPDES N/A
CONTRA COSTA CO. SITE LIST
CERS

Relative:
Higher
Actual:
56 ft.

EMI:
 Name: CITY OF BRENTWOOD
 Address: 161 SYCAMORE AVENUE
 City,State,Zip: BRENTWOOD, CA 94513
 Year: 2004
 County Code: 7
 Air Basin: SF
 Facility ID: 14752
 Air District Name: BA
 SIC Code: 9199
 Air District Name: BAY AREA AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0.03
 Reactive Organic Gases Tons/Yr: 0.025101
 Carbon Monoxide Emissions Tons/Yr: 0.083
 NOX - Oxides of Nitrogen Tons/Yr: 0.377
 SOX - Oxides of Sulphur Tons/Yr: 0.006
 Particulate Matter Tons/Yr: 0.027

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL SERVICES CENTER (Continued)

S107620519

Part. Matter 10 Micrometers and Smlr Tons/Yr:0.026352

Name: CITY OF BRENTWOOD
Address: 161 SYCAMORE AVENUE
City,State,Zip: BRENTWOOD, CA 94513
Year: 2005
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .03
Reactive Organic Gases Tons/Yr: .025101
Carbon Monoxide Emissions Tons/Yr: .083
NOX - Oxides of Nitrogen Tons/Yr: .377
SOX - Oxides of Sulphur Tons/Yr: .006
Particulate Matter Tons/Yr: .027
Part. Matter 10 Micrometers and Smlr Tons/Yr:.026352

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA
Year: 2006
County Code: 7
Air Basin: SF
Facility ID: 14754
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: .001
NOX - Oxides of Nitrogen Tons/Yr: .003
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA
Year: 2006
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .023
Reactive Organic Gases Tons/Yr: .0192441
Carbon Monoxide Emissions Tons/Yr: .064

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL SERVICES CENTER (Continued)

S107620519

NOX - Oxides of Nitrogen Tons/Yr: .293
SOX - Oxides of Sulphur Tons/Yr: .004
Particulate Matter Tons/Yr: .021
Part. Matter 10 Micrometers and Smlr Tons/Yr:.020496

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2007
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .023
Reactive Organic Gases Tons/Yr: .0192441
Carbon Monoxide Emissions Tons/Yr: .064
NOX - Oxides of Nitrogen Tons/Yr: .293
SOX - Oxides of Sulphur Tons/Yr: .004
Particulate Matter Tons/Yr: .021
Part. Matter 10 Micrometers and Smlr Tons/Yr:.020496

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2007
County Code: 7
Air Basin: SF
Facility ID: 14754
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: .001
NOX - Oxides of Nitrogen Tons/Yr: .003
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2008
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL SERVICES CENTER (Continued)

S107620519

Total Organic Hydrocarbon Gases Tons/Yr: .004
Reactive Organic Gases Tons/Yr: .0033468
Carbon Monoxide Emissions Tons/Yr: .01
NOX - Oxides of Nitrogen Tons/Yr: .021
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .003
Part. Matter 10 Micrometers and Smlr Tons/Yr: .002928

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2008
County Code: 7
Air Basin: SF
Facility ID: 14754
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: .001
NOX - Oxides of Nitrogen Tons/Yr: .003
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr: 0

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2009
County Code: 7
Air Basin: SF
Facility ID: 14754
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.001
NOX - Oxides of Nitrogen Tons/Yr: 3.0000000000000001E-3
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr: 0

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2009
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL SERVICES CENTER (Continued)

S107620519

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4.000000000000001E-3
Reactive Organic Gases Tons/Yr: 0.0033468
Carbon Monoxide Emissions Tons/Yr: 0.01
NOX - Oxides of Nitrogen Tons/Yr: 2.100000000000001E-2
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.00307377049180327
Part. Matter 10 Micrometers and Smlr Tons/Yr:3.000000000000001E-3

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2013
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.001
NOX - Oxides of Nitrogen Tons/Yr: 0.003
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2014
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.00047288
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.001428
NOX - Oxides of Nitrogen Tons/Yr: 0.00293126
SOX - Oxides of Sulphur Tons/Yr: 3.045e-006
Particulate Matter Tons/Yr: 0.00048897
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.000469411

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2015
County Code: 7
Air Basin: SF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL SERVICES CENTER (Continued)

S107620519

Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.00047288
Reactive Organic Gases Tons/Yr: 0.000460392
Carbon Monoxide Emissions Tons/Yr: 0.001428
NOX - Oxides of Nitrogen Tons/Yr: 0.00293126
SOX - Oxides of Sulphur Tons/Yr: 3.045e-006
Particulate Matter Tons/Yr: 0.00048897
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.000469411

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2016
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.00047288
Reactive Organic Gases Tons/Yr: 0.00041542508
Carbon Monoxide Emissions Tons/Yr: 0.001428
NOX - Oxides of Nitrogen Tons/Yr: 0.00293126
SOX - Oxides of Sulphur Tons/Yr: 3.045e-006
Particulate Matter Tons/Yr: 0.00048897
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.000469411

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2017
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.00047288
Reactive Organic Gases Tons/Yr: 0.00041542508
Carbon Monoxide Emissions Tons/Yr: 0.001428
NOX - Oxides of Nitrogen Tons/Yr: 0.00293126
SOX - Oxides of Sulphur Tons/Yr: 3.045e-006
Particulate Matter Tons/Yr: 0.00048897
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.000469411

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL SERVICES CENTER (Continued)

S107620519

Year: 2018
County Code: 7
Air Basin: SF
Facility ID: 14752
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.000473194
Reactive Organic Gases Tons/Yr: 0.000415700929
Carbon Monoxide Emissions Tons/Yr: 0.001428947
NOX - Oxides of Nitrogen Tons/Yr: 0.002933205
SOX - Oxides of Sulphur Tons/Yr: 3.047e-006
Particulate Matter Tons/Yr: 0.000489295
Part. Matter 10 Micrometers and Smlr Tons/Yr: 0.000469723

NPDES:

Name: MUNICIPAL SERVICES CENTER
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: Not reported
Regulatory Measure Type: Construction
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: Not reported
Discharge Name: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Status: Returned
Status Date: 01/02/2018
Operator Name: City of Brentwood
Operator Address: 150 City Park Way
Operator City: Brentwood
Operator State: California
Operator Zip: 94513

CONTRA COSTA CO. SITE LIST:

Name: CITY OF BRENTWOOD CORPORATION YARD
Address: 2201 ELKINS WY
City: BRENTWOOD
Facility ID: FA0030224
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: APSA: 10K - <100K GALLONS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL SERVICES CENTER (Continued)

S107620519

Region: CONTRA COSTA
Cupa Number: 773555

Name: CITY OF BRENTWOOD CORPORATION YARD
Address: 2201 ELKINS WY
City: BRENTWOOD
Facility ID: FA0030224
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >100K-250K LBS, 20+ EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 773555

Name: CITY OF BRENTWOOD CORPORATION YARD
Address: 2201 ELKINS WY
City: BRENTWOOD
Facility ID: FA0030224
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: 5 - <12 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 773555

CERS:

Name: CITY OF BRENTWOOD
Address: 2201 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513-7344
Site ID: 459862
CERS ID: 110038005235
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc: Environmental Contact
Entity Name: Kelly Martinez
Entity Title: Not reported
Affiliation Address: 2201 ELKINS WAY
Affiliation City: BRENTWOOD
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: SCOTT DEMPSEY
Entity Title: FLEET MANAGER
Affiliation Address: 2201 ELKINS WAY
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: KELLY WARREN
Entity Title: SAFETY/SPECIAL PROJ COOR
Affiliation Address: 2201 ELKINS WAY
Affiliation City: BRENTWOOD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL SERVICES CENTER (Continued)

S107620519

Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: SCOTT DEMPSEY FLEET MGMT
Entity Title: ENVIRONMENTAL CONTACT
Affiliation Address: 2201 ELKINS WAY
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Owner
Entity Name: BRENTWOOD PUBLIC WORKS ; YARD
Entity Title: OWNER
Affiliation Address: 2201 ELKINS WAY
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: City of Brentwood
Entity Title: Not reported
Affiliation Address: 150 CITY PARK WAY
Affiliation City: BRENTWOOD
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

B10
SE
1/8-1/4
0.141 mi.
742 ft.

BRENTWOOD PUBLIC WORKS CORP YARD
2201 ELKINS WAY
BRENTWOOD, CA 94513

AST A100417819
N/A

Site 6 of 6 in cluster B

Relative:
Higher

AST:

Actual:
56 ft.

Name: BRENTWOOD PUBLIC WORKS CORP YARD
Address: 2201 ELKINS WAY
City/Zip: BRENTWOOD,94513
Certified Unified Program Agencies: Not reported
Owner: CITY OF BRENTWOOD
Total Gallons: Not reported
CERSID: 10018390
Facility ID: 7000773555
Business Name: BRENTWOOD PUBLIC WORKS CORP YARD
Phone: 9255166000
Fax: 9255166001
Mailing Address: 2201 Elkins Way
Mailing Address City: Brentwood
Mailing Address State: CA
Mailing Address Zip Code: 94513

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD PUBLIC WORKS CORP YARD (Continued)

A100417819

Operator Name: Chris Ehlers
 Operator Phone: 9255166000
 Owner Phone: 9255165400
 Owner Mail Address: 150 City Park Way
 Owner State: CA
 Owner Zip Code: 94513
 Owner Country: United States
 Property Owner Name: City of Brentwood
 Property Owner Phone: 9255165400
 Property Owner Mailing Address: 150 City Park Way
 Property Owner City: Brentwood
 Property Owner Stat : CA
 Property Owner Zip Code: 94513
 Property Owner Country: United States
 EPAID: CAL000275201

D11
SSE
1/8-1/4
0.180 mi.
948 ft.

BERMUDEZ AUTO SERVICE & REPAIR
415 BEATRICE CT STE F
BRENTWOOD, CA 94513
Site 1 of 8 in cluster D

RCRA NonGen / NLR 1024812298
CAL000299167

Relative:
Higher
Actual:
55 ft.

RCRA Listings:
 Date Form Received by Agency: 2005-10-05 00:00:00.0
 Handler Name: BERMUDEZ AUTO SERVICE & REPAIR
 Handler Address: 415 BEATRICE CT STE F
 Handler City,State,Zip: BRENTWOOD, CA 94513
 EPA ID: CAL000299167
 Contact Name: ARMANDO BERMUDEZ
 Contact Address: 415 BEATRICE CT STE F
 Contact City,State,Zip: BRENTWOOD, CA 94513
 Contact Telephone: 925-240-5466
 Contact Fax: 925-240-1212
 Contact Email: Not reported
 Contact Title: Not reported
 EPA Region: 09
 Land Type: Not reported
 Federal Waste Generator Description: Not a generator, verified
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 91 HERITAGE WAY
 Mailing City,State,Zip: BRENTWOOD, CA 94513
 Owner Name: ARMANDO BERMUDEZ
 Owner Type: Other
 Operator Name: ARMANDO BERMUDEZ
 Operator Type: Other
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No
 Transporter Activity: No
 Transfer Facility Activity: No
 Recycler Activity with Storage: No
 Small Quantity On-Site Burner Exemption: No
 Smelting Melting and Refining Furnace Exemption: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BERMUDEZ AUTO SERVICE & REPAIR (Continued)

1024812298

| | |
|--|-----------------------|
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRC Permit Baseline: | Not on the Baseline |
| 2018 GPRC Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRC Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDs Where RCRA CA has Been Imposed Universe: | No |
| TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 20:27:40.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|--------------------------------|-----------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | ARMANDO BERMUDEZ |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 415 BEATRICE CT STE F |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BERMUDEZ AUTO SERVICE & REPAIR (Continued)

1024812298

Owner/Operator Telephone: 925-634-5070
 Owner/Operator Telephone Ext: Not reported
 Owner/Operator Fax: Not reported
 Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
 Owner/Operator Name: ARMANDO BERMUDEZ
 Legal Status: Other
 Date Became Current: Not reported
 Date Ended Current: Not reported
 Owner/Operator Address: 415 BEATRICE CT STE F
 Owner/Operator City,State,Zip: BRENTWOOD, CA 94513
 Owner/Operator Telephone: 925-240-5466
 Owner/Operator Telephone Ext: Not reported
 Owner/Operator Fax: Not reported
 Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2005-10-05 00:00:00.0
 Handler Name: BERMUDEZ AUTO SERVICE & REPAIR
 Federal Waste Generator Description: Not a generator, verified
 State District Owner: Not reported
 Large Quantity Handler of Universal Waste: No
 Recognized Trader Importer: No
 Recognized Trader Exporter: No
 Spent Lead Acid Battery Importer: No
 Spent Lead Acid Battery Exporter: No
 Current Record: Yes
 Non Storage Recycler Activity: Not reported
 Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811111
 NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

D12
 SSE
 1/8-1/4
 0.180 mi.
 948 ft.

ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR
415 BEATRICE CT STE A
BRENTWOOD, CA 94513

Site 2 of 8 in cluster D

HAZNET
CONTRA COSTA CO. SITE LIST
HWTS

S113158043
N/A

Relative:
 Higher
 Actual:
 55 ft.

HAZNET:
 Name: ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR
 Address: 415 BEATRICE CT STE A
 Address 2: Not reported
 City,State,Zip: BRENTWOOD, CA 945057204
 Contact: SCOTT YLITALO
 Telephone: 9252406773

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR (Continued)

S113158043

Mailing Name: Not reported
Mailing Address: PO BOX 1204

Year: 2019
Gepaid: CAL000350112
TSD EPA ID: NED981723513
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.06250

Year: 2015
Gepaid: CAL000350112
TSD EPA ID: CAD980675276
CA Waste Code: 343 - Unspecified organic liquid mixture
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0875

Year: 2013
Gepaid: CAL000350112
TSD EPA ID: NVT330010000
CA Waste Code: 291 - Latex waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.1

Year: 2011
Gepaid: CAL000350112
TSD EPA ID: NVT330010000
CA Waste Code: 291 - Latex waste
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.05

Additional Info:

Year: 2011
Gen EPA ID: CAL000350112

Shipment Date: 20110708
Creation Date: 12/20/2011 18:30:15
Receipt Date: 20110725
Manifest ID: 002843647SKS
Trans EPA ID: TXR000050930
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 291 - Latex waste
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.05
Waste Quantity: 100

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR (Continued)

S113158043

Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2013
Gen EPA ID: CAL000350112

Shipment Date: 20130415
Creation Date: 6/11/2013 22:15:07
Receipt Date: 20130429
Manifest ID: 003774478SKS
Trans EPA ID: TXR000081205
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 291 - Latex waste
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid
Regeneration, Organics Recovery Ect
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2015
Gen EPA ID: CAL000350112

Shipment Date: 20151030
Creation Date: 1/21/2016 22:15:32
Receipt Date: 20151120
Manifest ID: 005027669SKS
Trans EPA ID: TXR000081205
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980675276
Trans Name: CLEAN HARBORS BUTTONWILLOW LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 343 - Unspecified organic liquid mixture
RCRA Code: D001
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No
Treatment/Reovery (H010-H129) Or (H131-H135)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR (Continued)

S113158043

Quantity Tons: 0.0875
Waste Quantity: 175
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CONTRA COSTA CO. SITE LIST:

Name: ROAD RUNNER RV REPAIR
Address: 415 BEATRICE CT A
City: BRENTWOOD
Facility ID: FA0031102
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: LESS THAN 1000 LBS
Region: CONTRA COSTA
Cupa Number: 774198

Name: ROAD RUNNER RV REPAIR
Address: 415 BEATRICE CT A
City: BRENTWOOD
Facility ID: FA0031102
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: LESS THAN 5 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 774198

Name: BERMUDEZS AUTO SERVICE & REPAIR
Address: 415 BEATRICE CT F
City: BRENTWOOD
Facility ID: FA0040321
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 775749

Name: BERMUDEZS AUTO SERVICE & REPAIR
Address: 415 BEATRICE CT F
City: BRENTWOOD
Facility ID: FA0040321
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: LESS THAN 5 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 775749

HWTS:

Name: ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR
Address: 415 BEATRICE CT STE A
Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 945137339
EPA ID: CAL000350112

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR (Continued)

S113158043

Inactive Date: Not reported
Create Date: 02/17/2010
Last Act Date: 09/04/2019
Mailing Name: Not reported
Mailing Address: PO BOX 1204
Mailing Address 2: Not reported
Mailing City,State,Zip: DISCOVERY BAY, CA 945057204
Owner Name: ROAD RUNNER RV INC
Owner Address: 415 BEATRICE CT STE A
Owner Address 2: Not reported
Owner City,State,Zip: BRENTWOOD, CA 945137339
Contact Name: SCOTT YLITALO
Contact Address: 415 BEATRICE CT STE A
Contact Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513

NAICS:

EPA ID: CAL000350112
Create Date: 2010-02-17 13:53:17
NAICS Code: 811121
NAICS Description: Automotive Body, Paint, and Interior Repair and Maintenance
Issued EPA ID Date: 2010-02-17 13:53:17
Inactive Date: Not reported
Facility Name: ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR
Facility Address: 415 BEATRICE CT STE A
Facility Address 2: Not reported
Facility City: BRENTWOOD
Facility County: 07
Facility State: CA
Facility Zip: 945137339

D13
SSE
1/8-1/4
0.180 mi.
948 ft.

ROAD RUNNER RV REPAIR
415 BEATRICE CT STE A
BRENTWOOD, CA 94513
Site 3 of 8 in cluster D

CERS HAZ WASTE **S121745974**
CERS **N/A**

Relative:
Higher
Actual:
55 ft.

CERS HAZ WASTE:
Name: ROAD RUNNER RV REPAIR
Address: 415 BEATRICE CT STE A
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 148453
CERS ID: 10483084
CERS Description: Hazardous Waste Generator

CERS:

Name: ROAD RUNNER RV REPAIR
Address: 415 BEATRICE CT STE A
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 148453
CERS ID: 10483084
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 148453
Site Name: Road Runner RV Repair
Violation Date: 10/20/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD RUNNER RV REPAIR (Continued)

S121745974

Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 10/30/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-20-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-20-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD RUNNER RV REPAIR (Continued)

S121745974

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-30-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:

Site ID: 148453
Site Name: Road Runner RV Repair
Site Address: 415 BEATRICE CT STE A
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-20-2015
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: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: Tamara Ylitalo
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: Road Runner RV Repair
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD RUNNER RV REPAIR (Continued)

S121745974

Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Environmental Contact
Entity Name: Scott Ylitalo
Entity Title: Not reported
Affiliation Address: PO Box 1204
Affiliation City: Discovery Bay
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94505
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: PO Box 1204
Affiliation City: Discovery Bay
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94505
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Tamara Ylitalo
Entity Title: VP
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: Legal Owner
Entity Name: Scott Ylitalo
Entity Title: Not reported
Affiliation Address: PO Box 1204
Affiliation City: Discovery Bay
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94505
Affiliation Phone: (925) 240-6773

Affiliation Type Desc: Operator
Entity Name: Scott Ylitalo
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 240-6773

MAP FINDINGS

| | | | |
|-----------|------|-------------|---------------|
| Map ID | | | |
| Direction | | | |
| Distance | | | EDR ID Number |
| Elevation | Site | Database(s) | EPA ID Number |

| | | | |
|------------------|---|--------------------------|---------------------|
| D14 | ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR | RCRA NonGen / NLR | 1024825096 |
| SSE | 415 BEATRICE CT STE A | | CAL000350112 |
| 1/8-1/4 | BRENTWOOD, CA 94513 | | |
| 0.180 mi. | Site 4 of 8 in cluster D | | |
| 948 ft. | | | |

| | | | |
|------------------|--|--|--|
| Relative: | RCRA Listings: | | |
| Higher | Date Form Received by Agency: | 2010-02-17 00:00:00.0 | |
| Actual: | Handler Name: | ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR | |
| 55 ft. | Handler Address: | 415 BEATRICE CT STE A | |
| | Handler City,State,Zip: | BRENTWOOD, CA 94513-7339 | |
| | EPA ID: | CAL000350112 | |
| | Contact Name: | SCOTT YLITALO | |
| | Contact Address: | 415 BEATRICE CT STE A | |
| | Contact City,State,Zip: | BRENTWOOD, CA 94513 | |
| | Contact Telephone: | 925-240-6773 | |
| | Contact Fax: | 925-513-8330 | |
| | Contact Email: | EXTREMERV@ATT.NET | |
| | Contact Title: | Not reported | |
| | EPA Region: | 09 | |
| | Land Type: | Not reported | |
| | Federal Waste Generator Description: | Not a generator, verified | |
| | Non-Notifier: | Not reported | |
| | Biennial Report Cycle: | Not reported | |
| | Accessibility: | Not reported | |
| | Active Site Indicator: | Handler Activities | |
| | State District Owner: | Not reported | |
| | State District: | Not reported | |
| | Mailing Address: | PO BOX 1204 | |
| | Mailing City,State,Zip: | DISCOVERY BAY, CA 94505-7204 | |
| | Owner Name: | ROAD RUNNER RV INC | |
| | Owner Type: | Other | |
| | Operator Name: | SCOTT YLITALO | |
| | Operator Type: | Other | |
| | Short-Term Generator Activity: | No | |
| | Importer Activity: | No | |
| | Mixed Waste Generator: | No | |
| | Transporter Activity: | No | |
| | Transfer Facility Activity: | No | |
| | Recycler Activity with Storage: | No | |
| | Small Quantity On-Site Burner Exemption: | No | |
| | Smelting Melting and Refining Furnace Exemption: | No | |
| | Underground Injection Control: | No | |
| | Off-Site Waste Receipt: | No | |
| | Universal Waste Indicator: | Yes | |
| | Universal Waste Destination Facility: | Yes | |
| | Federal Universal Waste: | No | |
| | Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported | |
| | Active Site Converter Treatment storage and Disposal Facility: | Not reported | |
| | Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported | |
| | Active Site State-Reg Handler: | --- | |
| | Federal Facility Indicator: | Not reported | |
| | Hazardous Secondary Material Indicator: | N | |
| | Sub-Part K Indicator: | Not reported | |
| | Commercial TSD Indicator: | No | |
| | Treatment Storage and Disposal Type: | Not reported | |
| | 2018 GPRA Permit Baseline: | Not on the Baseline | |
| | 2018 GPRA Renewals Baseline: | Not on the Baseline | |
| | Permit Renewals Workload Universe: | Not reported | |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR (Continued)

1024825096

| | |
|---|-----------------------|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 20:31:59.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|--------------------------------|-----------------------|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SCOTT YLITALO |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 415 BEATRICE CT STE A |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-240-6773 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|--------------------------------|--------------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | ROAD RUNNER RV INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 415 BEATRICE CT STE A |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513-7339 |
| Owner/Operator Telephone: | 925-240-6773 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR (Continued)

1024825096

Historic Generators:

Receive Date: 2010-02-17 00:00:00.0
Handler Name: ROAD RUNNER RV INC DBA ROAD RUNNER RV REPAIR
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

| | | | |
|------------------|---|-----------------------|-------------------|
| D15 | BERMUDEZ'S AUTO SERVICE & REPAIR | CERS HAZ WASTE | S121782696 |
| SSE | 415 BEATRICE CT STE F | CERS | N/A |
| 1/8-1/4 | BRENTWOOD, CA 94513 | | |
| 0.180 mi. | Site 5 of 8 in cluster D | | |
| 948 ft. | | | |

Relative: CERS HAZ WASTE:
Higher Name: BERMUDEZ'S AUTO SERVICE & REPAIR
Address: 415 BEATRICE CT STE F
City,State,Zip: BRENTWOOD, CA 94513
Actual: Site ID: 427038
55 ft. CERS ID: 10745695
CERS Description: Hazardous Waste Generator

CERS:
Name: BERMUDEZ'S AUTO SERVICE & REPAIR
Address: 415 BEATRICE CT STE F
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 427038
CERS ID: 10745695
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 427038
Site Name: Bermudez's Auto Service & Repair
Violation Date: 7/16/2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste",

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BERMUDEZ'S AUTO SERVICE & REPAIR (Continued)

S121782696

| | |
|---|--|
| <p>Violation Notes:</p> <p>Violation Division:</p> <p>Violation Program:</p> <p>Violation Source:</p> <p>Site ID:</p> <p>Site Name:</p> <p>Violation Date:</p> <p>Citation:</p> <p>Violation Description:</p> <p>Violation Notes:</p> <p>Violation Division:</p> <p>Violation Program:</p> <p>Violation Source:</p> <p>Site ID:</p> <p>Site Name:</p> <p>Violation Date:</p> <p>Citation:</p> <p>Violation Description:</p> <p>Violation Notes:</p> <p>Violation Division:</p> <p>Violation Program:</p> <p>Violation Source:</p> <p>Evaluation:</p> <p>Eval General Type:</p> <p>Eval Date:</p> <p>Violations Found:</p> <p>Eval Type:</p> <p>Eval Notes:</p> <p>Eval Division:</p> <p>Eval Program:</p> <p>Eval Source:</p> <p>Eval General Type:</p> <p>Eval Date:</p> <p>Violations Found:</p> <p>Eval Type:</p> <p>Eval Notes:</p> <p>Eval Division:</p> <p>Eval Program:</p> <p>Eval Source:</p> <p>Eval General Type:</p> <p>Eval Date:</p> <p>Violations Found:</p> | <p>name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.</p> <p>Returned to compliance on 08/12/2019. OBSERVATION: The drum storing waste antifreeze and the drums storing drained used filters did not have appropriate hazardous waste labels. CORRECTIVE ACTION: By August 15, 2019, provide documentation, such as photos, to CCHSHMP that shows the waste antifreeze and drained used filters are properly labeled.</p> <p>Contra Costa County Health Services Department HW CERS</p> <p>427038 Bermudez's Auto Service & Repair 9/27/2017 HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple</p> <p>Hazardous Waste Generator Program - Administration/Documentation - General</p> <p>Returned to compliance on 10/31/2017. Contra Costa County Health Services Department HW CERS</p> <p>427038 Bermudez's Auto Service & Repair 9/27/2017 HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple</p> <p>Hazardous Waste Generator Program - Operations/Maintenance - General</p> <p>Returned to compliance on 10/31/2017. Contra Costa County Health Services Department HW CERS</p> <p>Other/Unknown 08-12-2019 No Other, not routine, done by local agency Not reported Contra Costa County Health Services Department HW CERS</p> <p>Compliance Evaluation Inspection 09-27-2017 No Routine done by local agency Not reported Contra Costa County Health Services Department HMRRP CERS</p> <p>Compliance Evaluation Inspection 09-27-2017 Yes</p> |
|---|--|

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BERMUDEZ'S AUTO SERVICE & REPAIR (Continued)

S121782696

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-01-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:

Site ID: 427038
Site Name: Bermudez's Auto Service & Repair
Site Address: 415 BEATRICE CT STE F
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 07-16-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 427038
Site Name: Bermudez's Auto Service & Repair
Site Address: 415 BEATRICE CT STE F
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 09-27-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BERMUDEZ'S AUTO SERVICE & REPAIR (Continued)

S121782696

Enf Action Program: HW
Enf Action Source: CERS

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: Armando Bermudez
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: Legal Owner
Entity Name: Armando Bermudez
Entity Title: Not reported
Affiliation Address: 415 Beatrice Ct Ste F
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 240-5466

Affiliation Type Desc: Operator
Entity Name: Armando Bermudez
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 240-5466

Affiliation Type Desc: Parent Corporation
Entity Name: Bermudez's Auto Service & Repair
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Identification Signer
Entity Name: Armando Bermudez
Entity Title: Owner

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BERMUDEZ'S AUTO SERVICE & REPAIR (Continued)

S121782696

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: Armando Bermudez
 Entity Title: Not reported
 Affiliation Address: 415 Beatrice Ct Ste F
 Affiliation City: Brentwood
 Affiliation State: CA
 Affiliation Country: Not reported
 Affiliation Zip: 94513
 Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
 Entity Name: Mailing Address
 Entity Title: Not reported
 Affiliation Address: 415 Beatrice Ct Ste F
 Affiliation City: Brentwood
 Affiliation State: CA
 Affiliation Country: Not reported
 Affiliation Zip: 94513
 Affiliation Phone: Not reported

E16
ESE
1/8-1/4
0.183 mi.
965 ft.

DELTA DIABLO
2301 ELKINS WAY
BRENTWOOD, CA 94513
Site 1 of 5 in cluster E

SWF/LF **S113473413**
HAZNET **N/A**
CERS
HWTS

Relative:
Higher
Actual:
63 ft.

SWF/LF (SWIS):
 Name: BRENTWOOD TRANSFER STATION
 Address: 2301 ELKINS WAY
 City,State,Zip: BRENTWOOD, CA
 Facility ID: 07-AA-0068
 Lat/Long: 37.96002 / -121.6849
 Owner Name: City of Brentwood
 Owner Telephone: 9255165400
 Owner Address: Paul Eldredge
 Owner Address2: 150 City Park Way
 Owner City,St,Zip: Brentwood, CA 54513
 Operational Status: Active
 Operator: City of Brentwood
 Operator Phone: 9255165400
 Operator Address: Paul Eldredge
 Operator Address2: 150 City Park Way
 Operator City,St,Zip: Brentwood, CA 54513
 Permit Date: 08/07/2019
 Permit Status: Permitted
 Permitted Acreage: \$5.70
 Activity: Large Volume Transfer/Proc Facility
 Regulation Status: Permitted
 Landuse Name: Residential,Agricultural
 GIS Source: Map

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Category: Transfer/Processing
Unit Number: 01
Inspection Frequency: Monthly
Accepted Waste: Agricultural, Construction/demolition, Food Wastes, Green Materials, Industrial, Inert, Metals, Mixed municipal, Tires, Wood waste
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: Not reported
SWIS Num: 07-AA-0068
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: 400
Actual Throughput with Units: Tons/day
Permitted Capacity with Units: 400
Remaining Capacity: Not reported
Remaining Capacity with Units: Tons/day
Lat/Long: 37.96002 / -121.6849

HAZNET:

Name: DELTA DIABLO
Address: 2301 ELKINS WAY
Address 2: Not reported
City, State, Zip: BRENTWOOD, CA 945091373
Contact: AMANDA ROA
Telephone: 9257561940
Mailing Name: Not reported
Mailing Address: 2500 PITTSBURG ANTIOCH HWY

Year: 2019
Gepaid: CAH111001407
TSD EPA ID: NVD980895338
CA Waste Code: 612 - Household waste
Disposal Method: H070 -
Tons: 0.15000

Year: 2019
Gepaid: CAH111001407
TSD EPA ID: CAD980884183
CA Waste Code: 612 - Household waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.20000

Year: 2019
Gepaid: CAH111001407
TSD EPA ID: NVD980895338
CA Waste Code: 612 - Household waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.75000

Year: 2019
Gepaid: CAH111001407
TSD EPA ID: NVD980895338
CA Waste Code: 612 - Household waste
Disposal Method: H121 - Neutralization Only
Tons: 0.50000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

| | |
|------------------|--|
| Year: | 2019 |
| Gepaid: | CAH111001407 |
| TSD EPA ID: | ARD981057870 |
| CA Waste Code: | 612 - Household waste |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 2.10000 |
| Year: | 2018 |
| Gepaid: | CAH111001407 |
| TSD EPA ID: | NVD980895338 |
| CA Waste Code: | 612 - Household waste |
| Disposal Method: | H122 - Evaporation |
| Tons: | 0.08750 |
| Year: | 2018 |
| Gepaid: | CAH111001407 |
| TSD EPA ID: | AZD983476680 |
| CA Waste Code: | 612 - Household waste |
| Disposal Method: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Tons: | 0.02204 |
| Year: | 2018 |
| Gepaid: | CAH111001407 |
| TSD EPA ID: | NVD980895338 |
| CA Waste Code: | 612 - Household waste |
| Disposal Method: | H070 - |
| Tons: | 0.06250 |
| Year: | 2018 |
| Gepaid: | CAH111001407 |
| TSD EPA ID: | ARD981057870 |
| CA Waste Code: | 612 - Household waste |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 3.11250 |
| Year: | 2018 |
| Gepaid: | CAH111001407 |
| TSD EPA ID: | NVD980895338 |
| CA Waste Code: | 612 - Household waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 1.09250 |

[Click this hyperlink](#) while viewing on your computer to access 13 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|----------------|--|
| Year: | 2016 |
| Gen EPA ID: | CAH111001407 |
| Shipment Date: | 20151003 |
| Creation Date: | 5/4/2016 22:15:22 |
| Receipt Date: | 20151020 |
| Manifest ID: | 000118203DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

| | |
|-------------------------|---|
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICES |
| TSDf EPA ID: | ARD981057870 |
| Trans Name: | RINECO CHEMICAL INC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 1.1 |
| Waste Quantity: | 2200 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H070 - Not reported |
| Quantity Tons: | 0.03 |
| Waste Quantity: | 60 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 5/4/2016 22:15:22 |
| Receipt Date: | 20151020 |
| Manifest ID: | 000118203DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICES |
| TSDf EPA ID: | ARD981057870 |
| Trans Name: | RINECO CHEMICAL INC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

| | |
|-------------------------|--|
| Quantity Tons: | 0.2 |
| Waste Quantity: | 400 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 4/7/2016 22:15:27 |
| Receipt Date: | 20151014 |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | 800 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 4/7/2016 22:15:27 |
| Receipt Date: | 20151014 |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | 800 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

| | |
|-------------------------|--|
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 4/7/2016 22:15:27 |
| Receipt Date: | 20151014 |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H121 - Neutralization Only |
| Quantity Tons: | Not reported |
| Waste Quantity: | 220 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 12/22/2015 22:15:31 |
| Receipt Date: | 20151022 |
| Manifest ID: | 000118205DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDf EPA ID: | CAD980884183 |
| Trans Name: | GENERAL ENVIRONMENTAL MGT LLC DBA PSC ENVIRONMENTAL SERVICES |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1 |
| Waste Quantity: | 200 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 12/22/2015 22:15:31 |
| Receipt Date: | 20151022 |
| Manifest ID: | 000118205DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC DBA PSC ENVIRONMENTAL SERVICES
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.75
Waste Quantity: 1500
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151003
Creation Date: 12/22/2015 22:15:31
Receipt Date: 20151022
Manifest ID: 000118205DAT
Trans EPA ID: CAR000210617
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDf EPA ID: CAD980884183
Trans Name: GENERAL ENVIRONMENTAL MGT LLC DBA PSC ENVIRONMENTAL SERVICES
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.11
Waste Quantity: 220
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151003
Creation Date: 5/4/2016 22:15:22
Receipt Date: 20151020
Manifest ID: 000118207DAT
Trans EPA ID: CAR000210617
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
Trans 2 EPA ID: TXR000025072
Trans 2 Name: ROCKETLINE CARRIER SERVICES
TSDf EPA ID: ARD981057870
Trans Name: RINECO CHEMICAL INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

RCRA Code: Not reported
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 1.2
Waste Quantity: 2400
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:

Year: 2015
Gen EPA ID: CAH111001407

Shipment Date: 20151003
Creation Date: Not reported
Receipt Date: Not reported
Manifest ID: 000118204DAT
Trans EPA ID: CAR000210617
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
Trans 2 EPA ID: TXR000025072
Trans 2 Name: ROCKETLINE CARRIER SERVICE
TSDf EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.07
Waste Quantity: 140
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151003
Creation Date: 5/4/2016 22:15:22
Receipt Date: 20151020
Manifest ID: 000118207DAT
Trans EPA ID: CAR000210617
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
Trans 2 EPA ID: TXR000025072
Trans 2 Name: ROCKETLINE CARRIER SERVICES
TSDf EPA ID: ARD981057870
Trans Name: RINECO CHEMICAL INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.3
Waste Quantity: 600

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

| | |
|-------------------------|--|
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H070 - Not reported |
| Quantity Tons: | 0.0645 |
| Waste Quantity: | 129 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H070 - Not reported |
| Quantity Tons: | 0.03 |
| Waste Quantity: | 60 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 5/4/2016 22:15:22 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Receipt Date: 20151020
Manifest ID: 000118203DAT
Trans EPA ID: CAR000210617
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
Trans 2 EPA ID: TXR000025072
Trans 2 Name: ROCKETLINE CARRIER SERVICES
TSDf EPA ID: ARD981057870
Trans Name: RINECO CHEMICAL INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 1.1
Waste Quantity: 2200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151003
Creation Date: 5/4/2016 22:15:22
Receipt Date: 20151020
Manifest ID: 000118203DAT
Trans EPA ID: CAR000210617
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
Trans 2 EPA ID: TXR000025072
Trans 2 Name: ROCKETLINE CARRIER SERVICES
TSDf EPA ID: ARD981057870
Trans Name: RINECO CHEMICAL INC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.425
Waste Quantity: 850
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20151003
Creation Date: 5/4/2016 22:15:22
Receipt Date: 20151020
Manifest ID: 000118203DAT
Trans EPA ID: CAR000210617
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP
Trans 2 EPA ID: TXR000025072
Trans 2 Name: ROCKETLINE CARRIER SERVICES
TSDf EPA ID: ARD981057870
Trans Name: RINECO CHEMICAL INC
TSDf Alt EPA ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

| | |
|-------------------------|--|
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.2 |
| Waste Quantity: | 400 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 4/7/2016 22:15:27 |
| Receipt Date: | 20151014 |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | 800 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 4/7/2016 22:15:27 |
| Receipt Date: | 20151014 |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | Not reported |
| Waste Quantity: | 800 |
| Quantity Unit: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

| | |
|-------------------------|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20151003 |
| Creation Date: | 4/7/2016 22:15:27 |
| Receipt Date: | 20151014 |
| Manifest ID: | 000118204DAT |
| Trans EPA ID: | CAR000210617 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF CALIFORNIA LP |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICE |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H121 - Neutralization Only |
| Quantity Tons: | Not reported |
| Waste Quantity: | 220 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Additional Info: | |
| Year: | 2017 |
| Gen EPA ID: | CAH111001407 |
| Shipment Date: | 20171014 |
| Creation Date: | 7/11/2018 18:32:18 |
| Receipt Date: | 20171030 |
| Manifest ID: | 000183144DAT |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICES |
| TSDf EPA ID: | ARD981057870 |
| Trans Name: | RINECO CHEMICAL INDUSTRIES IN |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.7 |
| Waste Quantity: | 1400 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

| | |
|-------------------------|--|
| Shipment Date: | 20171014 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 000183145DAT |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDf EPA ID: | NVD980895338 |
| Trans Name: | 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.05 |
| Waste Quantity: | 100 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20171014 |
| Creation Date: | 7/11/2018 18:32:18 |
| Receipt Date: | 20171030 |
| Manifest ID: | 000183144DAT |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICES |
| TSDf EPA ID: | ARD981057870 |
| Trans Name: | RINECO CHEMICAL INDUSTRIES IN |
| TSDf Alt EPA ID: | Not reported |
| TSDf Alt Name: | Not reported |
| Waste Code Description: | 612 - Household waste |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.225 |
| Waste Quantity: | 450 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20171014 |
| Creation Date: | 7/11/2018 18:32:18 |
| Receipt Date: | 20171030 |
| Manifest ID: | 000183144DAT |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | TXR000025072 |
| Trans 2 Name: | ROCKETLINE CARRIER SERVICES |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

TSDF EPA ID: ARD981057870
Trans Name: RINECO CHEMICAL INDUSTRIES IN
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons: 0.035
Waste Quantity: 70
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171014
Creation Date: 10/16/2018 18:30:28
Receipt Date: 20171110
Manifest ID: 000183145DAT
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION
TSDF EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171014
Creation Date: 10/16/2018 18:30:28
Receipt Date: 20171110
Manifest ID: 000183145DAT
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION
TSDF EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Quantity Tons: 0.4
Waste Quantity: 800
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171014
Creation Date: 10/16/2018 18:30:28
Receipt Date: 20171110
Manifest ID: 000183145DAT
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION
TSDf EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H121 - Neutralization Only
Quantity Tons: 0.075
Waste Quantity: 150
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171014
Creation Date: 10/16/2018 18:30:28
Receipt Date: 20171110
Manifest ID: 000183145DAT
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION
TSDf EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H121 - Neutralization Only
Quantity Tons: 0.075
Waste Quantity: 150
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Shipment Date: 20171014
Creation Date: 7/16/2018 18:30:53
Receipt Date: 20171110
Manifest ID: 000183146DAT
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION
TSDf EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H070 - Not reported
Quantity Tons: 0.025
Waste Quantity: 50
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20171014
Creation Date: 7/16/2018 18:30:53
Receipt Date: 20171110
Manifest ID: 000183146DAT
Trans EPA ID: MNS000110924
Trans Name: STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID: NED986382133
Trans 2 Name: SMITH SYSTEMS TRANSPORTATION
TSDf EPA ID: NVD980895338
Trans Name: 21ST CENTURY ENVIRONMENTAL MANAGEMENT OF NEVADA LLC
TSDf Alt EPA ID: Not reported
TSDf Alt Name: Not reported
Waste Code Description: 612 - Household waste
RCRA Code: Not reported
Meth Code: H070 - Not reported
Quantity Tons: 0.005
Waste Quantity: 10
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:

Name: CITY OF BRENTWOOD TRANSFER STATION
Address: 2301 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 13472
CERS ID: 07-AA-0068
CERS Description: Solid Waste and Recycle Sites

Violations:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Site ID: 13472
Site Name: CITY OF BRENTWOOD TRANSFER STATION
Violation Date: 8/8/2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 08/26/2019. OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Complete and electronically submit a site map with all required content.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 13472
Site Name: CITY OF BRENTWOOD TRANSFER STATION
Violation Date: 8/8/2019
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 08/26/2019. OBSERVATION: The business failed to update business plan within 30 days when one of the following occurs: a 100 percent or more increase in the quantity of a previously disclosed material; any handling of a previously undisclosed hazardous material; a change of business address, business ownership, or business name; or a substantial change in the handler's operations that requires modification to any portion of the business plan. Gear Grease (110 gallons) observed stored at the facility and not included on the facility hazardous materials inventory. CORRECTIVE ACTION: Update all submittal elements effected by the change(s) and electronically submit the update within 30 days.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 09-13-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Eval Date: 06-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-29-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 13472
Site Name: CITY OF BRENTWOOD TRANSFER STATION
Site Address: 2301 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-08-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 13472
Facility Name: CITY OF BRENTWOOD TRANSFER STATION
Env Int Type Code: HMBP
Program ID: 10485325
Coord Name: Not reported
Ref Point Type Desc: Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Latitude: 37.958155
Longitude: -121.686177

Affiliation:

Affiliation Type Desc: Identification Signer
Entity Name: Chris Ehlers
Entity Title: Assistant Director of Public Works/Operations
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: Kelly Martinez
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Operator
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: Paul Eldredge150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 54513
Affiliation Phone: 9255165400

Affiliation Type Desc: Operator
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 516-5400

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Legal Owner
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-5400

Affiliation Type Desc: Parent Corporation
Entity Name: Brentwood Transfer Station
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: City of Brentwood
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-5400

Affiliation Type Desc: Document Preparer
Entity Name: Kelly Martinez
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: Legal Owner
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: Paul Eldredge 150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 54513
Affiliation Phone: 9255165400

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Name: CITY OF BRENTWOOD TRANSFER STATION
Address: 2301 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 13472
CERS ID: 10485325
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 13472
Site Name: CITY OF BRENTWOOD TRANSFER STATION
Violation Date: 8/8/2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 08/26/2019. OBSERVATION: The business failed to complete and electronically submit a site map with all required content including: north orientation, loading area, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shut offs, evacuation staging area, hazardous materials/waste storage areas and emergency response equipment. CORRECTIVE ACTION: Complete and electronically submit a site map with all required content.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 13472
Site Name: CITY OF BRENTWOOD TRANSFER STATION
Violation Date: 8/8/2019
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 08/26/2019. OBSERVATION: The business failed to update business plan within 30 days when one of the following occurs: a 100 percent or more increase in the quantity of a previously disclosed material; any handling of a previously undisclosed hazardous material; a change of business address, business ownership, or business name; or a substantial change in the handler's operations that requires modification to any portion of the business plan. Gear Grease (110 gallons) observed stored at the facility and not included on the facility hazardous materials inventory. CORRECTIVE ACTION: Update all submittal elements effected by the change(s) and electronically submit the update within 30 days.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:

Eval General Type: Other/Unknown
Eval Date: 09-13-2019

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-29-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 13472
Site Name: CITY OF BRENTWOOD TRANSFER STATION
Site Address: 2301 ELKINS WAY
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-08-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Coordinates:

Site ID: 13472
Facility Name: CITY OF BRENTWOOD TRANSFER STATION
Env Int Type Code: HMBP
Program ID: 10485325
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.958155
Longitude: -121.686177

Affiliation:

Affiliation Type Desc: Identification Signer
Entity Name: Chris Ehlers
Entity Title: Assistant Director of Public Works/Operations
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: Kelly Martinez
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Operator
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: Paul Eldredge 150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 54513
Affiliation Phone: 9255165400

Affiliation Type Desc: Operator
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 516-5400

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Legal Owner
Entity Name: CITY OF BRENTWOOD
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-5400

Affiliation Type Desc: Parent Corporation
Entity Name: Brentwood Transfer Station
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: City of Brentwood
Entity Title: Not reported
Affiliation Address: 150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-5400

Affiliation Type Desc: Document Preparer
Entity Name: Kelly Martinez
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: Legal Owner
Entity Name: CITY OF BRENTWOOD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

S113473413

Entity Title: Not reported
Affiliation Address: Paul Eldredge150 City Park Way
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 54513
Affiliation Phone: 9255165400

HWTS:

Name: DELTA DIABLO
Address: 2301 ELKINS WAY
Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 945131164
EPA ID: CAH111001407
Inactive Date: Not reported
Create Date: 03/14/2014
Last Act Date: 03/14/2014
Mailing Name: Not reported
Mailing Address: 2500 PITTSBURG ANTIOCH HWY
Mailing Address 2: Not reported
Mailing City,State,Zip: ANTIOCH, CA 945091373
Owner Name: DELTA DIABLO
Owner Address: 2500 PITTSBURG ANTIOCH HWY
Owner Address 2: Not reported
Owner City,State,Zip: ANTIOCH, CA 945091373
Contact Name: AMANDA ROA
Contact Address: 2500 PITTSBURG ANTIOCH HWY
Contact Address 2: Not reported
City,State,Zip: ANTIOCH, CA 945091373

NAICS:

EPA ID: CAH111001407
Create Date: 2014-03-14 10:00:53
NAICS Code: 92119
NAICS Description: Other General Government Support
Issued EPA ID Date: 2014-03-14 10:00:53
Inactive Date: Not reported
Facility Name: DELTA DIABLO
Facility Address: 2301 ELKINS WAY
Facility Address 2: Not reported
Facility City: BRENTWOOD
Facility County: 07
Facility State: CA
Facility Zip: 945131164

E17
ESE
1/8-1/4
0.183 mi.
965 ft.

CITY OF BRENTWOOD TRANSFER STATION
2301 ELKINS WY
BRENTWOOD, CA 94513
Site 2 of 5 in cluster E

CONTRA COSTA CO. SITE LIST **S124899598**
HWTS **N/A**

Relative:
Higher
Actual:
63 ft.

CONTRA COSTA CO. SITE LIST:
Name: CITY OF BRENTWOOD TRANSFER STATION
Address: 2301 ELKINS WY
City: BRENTWOOD
Facility ID: FA0035299

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD TRANSFER STATION (Continued)

S124899598

Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 20+ EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 774811

Name: CITY OF BRENTWOOD TRANSFER STATION
Address: 2301 ELKINS WY
City: BRENTWOOD
Facility ID: FA0035299
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 774811

HWTS:

Name: CITY OF BRENTWOOD - BRENTWOOD TRANSFER STATION
Address: 2301 ELKINS WAY
Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513
EPA ID: CAL000394753
Inactive Date: Not reported
Create Date: 03/06/2014
Last Act Date: 08/30/2019
Mailing Name: Not reported
Mailing Address: 150 CITY PARK WAY
Mailing Address 2: Not reported
Mailing City,State,Zip: BRENTWOOD, CA 945131164
Owner Name: CITY OF BRENTWOOD
Owner Address: 150 CITY PARK WAY
Owner Address 2: Not reported
Owner City,State,Zip: BRENTWOOD, CA 945130000
Contact Name: KELLY MARTINEZ
Contact Address: 150 CITY PARK WAY
Contact Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513

NAICS:

EPA ID: CAL000394753
Create Date: 2014-03-06 14:29:55
NAICS Code: 99999
NAICS Description: Not Otherwise Specified
Issued EPA ID Date: 2014-03-06 14:29:55
Inactive Date: Not reported
Facility Name: CITY OF BRENTWOOD - BRENTWOOD TRANSFER STATION
Facility Address: 2301 ELKINS WAY
Facility Address 2: Not reported
Facility City: BRENTWOOD
Facility County: 07
Facility State: CA
Facility Zip: 94513

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

| | | |
|---|--|---|
| <p>E18 ESE 1/8-1/4 0.183 mi. 965 ft.</p> <p>Relative: Higher</p> <p>Actual: 63 ft.</p> | <p>CITY OF BRENTWOOD - BRENTWOOD TRANSFER STATION 2301 ELKINS WAY BRENTWOOD, CA 94513</p> <p>Site 3 of 5 in cluster E</p> <p>RCRA Listings: Date Form Received by Agency: 2014-03-06 00:00:00.0 Handler Name: CITY OF BRENTWOOD - BRENTWOOD TRANSFER STATION Handler Address: 2301 ELKINS WAY Handler City,State,Zip: BRENTWOOD, CA 94513 EPA ID: CAL000394753 Contact Name: SCOTT DEMPSEY Contact Address: 150 CITY PARK WAY Contact City,State,Zip: BRENTWOOD, CA 94513 Contact Telephone: 925-516-6000 Contact Fax: 925-516-6001 Contact Email: KMARTINEZ@BRENTWOODCA.GOV Contact Title: Not reported EPA Region: 09 Land Type: Not reported Federal Waste Generator Description: Not a generator, verified Non-Notifier: Not reported Biennial Report Cycle: Not reported Accessibility: Not reported Active Site Indicator: Handler Activities State District Owner: Not reported State District: Not reported Mailing Address: 150 CITY PARK WAY Mailing City,State,Zip: BRENTWOOD, CA 94513-1164 Owner Name: CITY OF BRENTWOOD Owner Type: Other Operator Name: SCOTT DEMPSEY Operator Type: Other Short-Term Generator Activity: No Importer Activity: No Mixed Waste Generator: No Transporter Activity: No Transfer Facility Activity: No Recycler Activity with Storage: No Small Quantity On-Site Burner Exemption: No Smelting Melting and Refining Furnace Exemption: No Underground Injection Control: No Off-Site Waste Receipt: No Universal Waste Indicator: Yes Universal Waste Destination Facility: Yes Federal Universal Waste: No Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported Active Site Converter Treatment storage and Disposal Facility: Not reported Active Site State-Reg Treatment Storage and Disposal Facility: Not reported Active Site State-Reg Handler: --- Federal Facility Indicator: Not reported Hazardous Secondary Material Indicator: N Sub-Part K Indicator: Not reported Commercial TSD Indicator: No Treatment Storage and Disposal Type: Not reported 2018 GPRA Permit Baseline: Not on the Baseline 2018 GPRA Renewals Baseline: Not on the Baseline Permit Renewals Workload Universe: Not reported</p> | <p>RCRA NonGen / NLR</p> <p>1024843398 CAL000394753</p> |
|---|--|---|

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CITY OF BRENTWOOD - BRENTWOOD TRANSFER STATION (Continued)

1024843398

| | |
|---|-----------------------|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-06 17:04:02.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|--------------------------------|--------------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CITY OF BRENTWOOD |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 150 CITY PARK WAY |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513-0000 |
| Owner/Operator Telephone: | 925-516-6000 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|--------------------------------|---------------------|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SCOTT DEMPSEY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 150 CITY PARK WAY |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-516-6000 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD - BRENTWOOD TRANSFER STATION (Continued)

1024843398

Historic Generators:

| | |
|--|--|
| Receive Date: | 2014-03-06 00:00:00.0 |
| Handler Name: | CITY OF BRENTWOOD - BRENTWOOD TRANSFER STATION |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|--------------------|-------------------------------------|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

E19
ESE
1/8-1/4
0.183 mi.
965 ft.

THE HOME DEPOT
2301 ELKINS WAY
BRENTWOOD, CA 94513

RCRA NonGen / NLR **1025835477**
CAC003015062

Site 4 of 5 in cluster E

Relative:
Higher
Actual:
63 ft.

RCRA Listings:

| | |
|--------------------------------------|-----------------------------|
| Date Form Received by Agency: | 2019-05-15 00:00:00.0 |
| Handler Name: | THE HOME DEPOT |
| Handler Address: | 2301 ELKINS WAY |
| Handler City,State,Zip: | BRENTWOOD, CA 94513 |
| EPA ID: | CAC003015062 |
| Contact Name: | MIKE MADDOCKS |
| Contact Address: | 2455 PACES FERRY RD |
| Contact City,State,Zip: | ATLANTA, GA 30339 |
| Contact Telephone: | 770-384-3540 |
| Contact Fax: | Not reported |
| Contact Email: | MIKE.MADDOCKS@HOMEDEPOT.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 160 CHAPEL RD STE 201 |
| Mailing City,State,Zip: | MANCHESTER, CT 05042 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HOME DEPOT (Continued)

1025835477

| | |
|--|----------------------------|
| Owner Name: | THE HOME DEPOT U.S.A. INC. |
| Owner Type: | Other |
| Operator Name: | MIKE MADDOCKS |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2019-06-27 11:35:11.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE HOME DEPOT (Continued)

1025835477

Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Operator
Owner/Operator Name: MIKE MADDOCKS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2455 PACES FERRY RD
Owner/Operator City,State,Zip: ATLANTA, GA 30339
Owner/Operator Telephone: 770-384-3540
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: THE HOME DEPOT U.S.A. INC.
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2455 PACES FERRY RD
Owner/Operator City,State,Zip: ATLANTA, GA 30339
Owner/Operator Telephone: 770-433-8211
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2019-05-15 00:00:00.0
Handler Name: THE HOME DEPOT
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 44411
NAICS Description: HOME CENTERS

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

| Map ID Direction Distance Elevation | Site | Database(s) | EDR ID Number EPA ID Number |
|--|--|----------------------------|--|
| E20 ESE 1/8-1/4 0.183 mi. 965 ft. | DELTA DIABLO 2301 ELKINS WAY BRENTWOOD, CA 94513 Site 5 of 5 in cluster E | RCRA NonGen / NLR | 1024785264 CAH111001407 |
| Relative: Higher | RCRA Listings: | | |
| Actual: 63 ft. | Date Form Received by Agency: | 2014-03-14 00:00:00.0 | |
| | Handler Name: | DELTA DIABLO | |
| | Handler Address: | 2301 ELKINS WAY | |
| | Handler City,State,Zip: | BRENTWOOD, CA 94513-1164 | |
| | EPA ID: | CAH111001407 | |
| | Contact Name: | AMANDA ROA | |
| | Contact Address: | 2500 PITTSBURG ANTIOCH HWY | |
| | Contact City,State,Zip: | ANTIOCH, CA 94509-1373 | |
| | Contact Telephone: | 925-756-1940 | |
| | Contact Fax: | 925-756-1960 | |
| | Contact Email: | AMANDAR@DDSD.ORG | |
| | Contact Title: | Not reported | |
| | EPA Region: | 09 | |
| | Land Type: | Not reported | |
| | Federal Waste Generator Description: | Not a generator, verified | |
| | Non-Notifier: | Not reported | |
| | Biennial Report Cycle: | Not reported | |
| | Accessibility: | Not reported | |
| | Active Site Indicator: | Handler Activities | |
| | State District Owner: | Not reported | |
| | State District: | Not reported | |
| | Mailing Address: | 2500 PITTSBURG ANTIOCH HWY | |
| | Mailing City,State,Zip: | ANTIOCH, CA 94509-1373 | |
| | Owner Name: | DELTA DIABLO | |
| | Owner Type: | Other | |
| | Operator Name: | AMANDA ROA | |
| | Operator Type: | Other | |
| | Short-Term Generator Activity: | No | |
| | Importer Activity: | No | |
| | Mixed Waste Generator: | No | |
| | Transporter Activity: | No | |
| | Transfer Facility Activity: | No | |
| | Recycler Activity with Storage: | No | |
| | Small Quantity On-Site Burner Exemption: | No | |
| | Smelting Melting and Refining Furnace Exemption: | No | |
| | Underground Injection Control: | No | |
| | Off-Site Waste Receipt: | No | |
| | Universal Waste Indicator: | Yes | |
| | Universal Waste Destination Facility: | Yes | |
| | Federal Universal Waste: | No | |
| | Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported | |
| | Active Site Converter Treatment storage and Disposal Facility: | Not reported | |
| | Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported | |
| | Active Site State-Reg Handler: | --- | |
| | Federal Facility Indicator: | Not reported | |
| | Hazardous Secondary Material Indicator: | N | |
| | Sub-Part K Indicator: | Not reported | |
| | Commercial TSD Indicator: | No | |
| | Treatment Storage and Disposal Type: | Not reported | |
| | 2018 GPRA Permit Baseline: | Not on the Baseline | |
| | 2018 GPRA Renewals Baseline: | Not on the Baseline | |
| | Permit Renewals Workload Universe: | Not reported | |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DELTA DIABLO (Continued)

1024785264

| | |
|---|-----------------------|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 15:40:39.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|--------------------------------|----------------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | DELTA DIABLO |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2500 PITTSBURG ANTIOCH HWY |
| Owner/Operator City,State,Zip: | ANTIOCH, CA 94509-1373 |
| Owner/Operator Telephone: | 925-756-1900 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|--------------------------------|----------------------------|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | AMANDA ROA |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2500 PITTSBURG ANTIOCH HWY |
| Owner/Operator City,State,Zip: | ANTIOCH, CA 94509-1373 |
| Owner/Operator Telephone: | 925-756-1940 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTA DIABLO (Continued)

1024785264

Historic Generators:

Receive Date: 2014-03-14 00:00:00.0
Handler Name: DELTA DIABLO
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 92119
NAICS Description: OTHER GENERAL GOVERNMENT SUPPORT

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

D21
SSE
1/8-1/4
0.195 mi.
1028 ft.

B WOOD CABINET PAINTING INC
425 BEATRICE CT
BRENTWOOD, CA 94513
Site 6 of 8 in cluster D

CONTRA COSTA CO. SITE LIST **S107448107**
N/A

Relative:
Higher
Actual:
55 ft.

CONTRA COSTA CO. SITE LIST:
Name: B WOOD CABINET PAINTING INC
Address: 425 BEATRICE CT
City: BRENTWOOD
Facility ID: FA0030250
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 773581

Name: B WOOD CABINET PAINTING INC
Address: 425 BEATRICE CT
City: BRENTWOOD
Facility ID: FA0030250
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: LESS THAN 5 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 773581

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

D22 **B WOOD CABINET PAINTING, INC** **CERS HAZ WASTE** **S121737739**
SSE **425 BEATRICE CT** **CERS** **N/A**
1/8-1/4 **BRENTWOOD, CA 94513**

0.195 mi.
1028 ft. **Site 7 of 8 in cluster D**

Relative:
Higher
Actual:
55 ft.

CERS HAZ WASTE:
Name: B WOOD CABINET PAINTING, INC
Address: 425 BEATRICE CT
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 10472
CERS ID: 10018468
CERS Description: Hazardous Waste Generator

CERS:
Name: B WOOD CABINET PAINTING, INC
Address: 425 BEATRICE CT
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 10472
CERS ID: 10018468
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 10472
Site Name: B WOOD CABINET PAINTING, INC
Violation Date: 11/19/2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/19/2018. **OBSERVATION:** The business failed to complete and electronically submit chemical inventory information for all reportable hazardous materials on site at or above reportable quantities. **CORRECTIVE ACTION:** Facility updated inventory and submitted during inspection. Corrected onsite.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 10472
Site Name: B WOOD CABINET PAINTING, INC
Violation Date: 8/6/2013
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 08/06/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 10472
Site Name: B WOOD CABINET PAINTING, INC
Violation Date: 11/19/2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 11/19/2018. **OBSERVATION:** The business failed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B WOOD CABINET PAINTING, INC (Continued)

S121737739

to electronically submit a site map. CORRECTIVE ACTION: Site map submitted during inspection. Corrected onsite.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 10472
Site Name: B WOOD CABINET PAINTING, INC
Violation Date: 11/19/2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 11/19/2018. OBSERVATION: The business failed to electronically submit adequate emergency response procedures. CORRECTIVE ACTION: Facility uploaded and submitted ERP during inspection. Corrected onsite.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 10472
Site Name: B WOOD CABINET PAINTING, INC
Violation Date: 10/15/2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 10/15/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-15-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B WOOD CABINET PAINTING, INC (Continued)

S121737739

Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-15-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:

Site ID: 10472
Site Name: B WOOD CABINET PAINTING, INC
Site Address: 425 BEATRICE CT
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-06-2013
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: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 10472
Site Name: B WOOD CABINET PAINTING, INC
Site Address: 425 BEATRICE CT
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-15-2015
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: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B WOOD CABINET PAINTING, INC (Continued)

S121737739

Site ID: 10472
Site Name: B WOOD CABINET PAINTING, INC
Site Address: 425 BEATRICE CT
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 11-19-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:

Site ID: 10472
Facility Name: B WOOD CABINET PAINTING, INC
Env Int Type Code: HWG
Program ID: 10018468
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.956379
Longitude: -121.687553

Affiliation:

Affiliation Type Desc: Identification Signer
Entity Name: Bruce Wood
Entity Title: President
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: Legal Owner
Entity Name: B WOOD CABINET PAINTING, INC
Entity Title: Not reported
Affiliation Address: 425 Beatrice Ct
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513-7370
Affiliation Phone: (925) 516-0365

Affiliation Type Desc: Parent Corporation
Entity Name: B WOOD CABINET PAINTING, 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: Document Preparer
Entity Name: Bruce Wood

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B WOOD CABINET PAINTING, INC (Continued)

S121737739

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: BRUCE WOOD
Entity Title: Not reported
Affiliation Address: 425 BEATRICE CT
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco BlvdSuite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 425 Beatrice Ct
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Bruce Wood
Entity Title: Not reported
Affiliation Address: 425 Beatrice Ct
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 765-3814

Affiliation Type Desc: Operator
Entity Name: BRUCE WOOD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 765-3814

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

D23
SSE
1/8-1/4
0.195 mi.
1028 ft.

B WOOD CABINET PAINTING INC
425 BEATRICE CT
BRENTWOOD, CA 94513

RCRA NonGen / NLR

1024814298
CAL000308451

Site 8 of 8 in cluster D

Relative:
Higher
Actual:
55 ft.

| | |
|--|----------------------------------|
| RCRA Listings: | 2006-06-28 00:00:00.0 |
| Date Form Received by Agency: | 2006-06-28 00:00:00.0 |
| Handler Name: | B WOOD CABINET PAINTING INC |
| Handler Address: | 425 BEATRICE CT |
| Handler City,State,Zip: | BRENTWOOD, CA 94513 |
| EPA ID: | CAL000308451 |
| Contact Name: | BRUCE WOOD |
| Contact Address: | 425 BEATRICE CT |
| Contact City,State,Zip: | BRENTWOOD, CA 94513 |
| Contact Telephone: | 925-516-0365 |
| Contact Fax: | 925-516-0912 |
| Contact Email: | CONTACT@BWOODCABINETPAINTING.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 425 BEATRICE CT |
| Mailing City,State,Zip: | BRENTWOOD, CA 94513-7371 |
| Owner Name: | BRUCE WOOD |
| Owner Type: | Other |
| Operator Name: | BRUCE WOOD |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRC Permit Baseline: | Not on the Baseline |
| 2018 GPRC Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

B WOOD CABINET PAINTING INC (Continued)

1024814298

| | |
|---|-----------------------|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 20:28:20.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|--------------------------------|---------------------|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | BRUCE WOOD |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 425 BEATRICE CT |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-516-0365 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|--------------------------------|--------------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | BRUCE WOOD |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 425 BEATRICE CT |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513-7371 |
| Owner/Operator Telephone: | 925-516-0365 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B WOOD CABINET PAINTING INC (Continued)

1024814298

Historic Generators:

| | |
|--|-----------------------------|
| Receive Date: | 2006-06-28 00:00:00.0 |
| Handler Name: | B WOOD CABINET PAINTING INC |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|--------------------|---------------------------------|
| NAICS Code: | 32551 |
| NAICS Description: | PAINT AND COATING MANUFACTURING |

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

F24
WSW
1/8-1/4
0.215 mi.
1134 ft.

MILLENNIUM AUTO CARE
6700 BRENTWOOD BLVD
BRENTWOOD, CA 94513

RCRA NonGen / NLR

1024868306
CAL000436908

Site 1 of 5 in cluster F

Relative:
Higher
Actual:
68 ft.

RCRA Listings:

| | |
|--------------------------------------|---------------------------|
| Date Form Received by Agency: | 2018-06-11 00:00:00.0 |
| Handler Name: | MILLENNIUM AUTO CARE |
| Handler Address: | 6700 BRENTWOOD BLVD |
| Handler City,State,Zip: | BRENTWOOD, CA 94513 |
| EPA ID: | CAL000436908 |
| Contact Name: | MORSALEAN ZAZI |
| Contact Address: | 6700 BRENTWOOD BLVD |
| Contact City,State,Zip: | BRENTWOOD, CA 94513 |
| Contact Telephone: | 925-516-6602 |
| Contact Fax: | 925-516-6682 |
| Contact Email: | ZAZI6700@GMAIL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 6700 BRENTWOOD BLVD |
| Mailing City,State,Zip: | BRENTWOOD, CA 94513 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MILLENNIUM AUTO CARE (Continued)

1024868306

| | |
|--|-----------------------|
| Owner Name: | SHAWN ZAZI |
| Owner Type: | Other |
| Operator Name: | MORSALEAN ZAZI |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-07 19:38:24.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MILLENNIUM AUTO CARE (Continued)

1024868306

Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: SHAWN ZAZI
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2914 SIMBA PL
Owner/Operator City,State,Zip: BRENTWOOD, CA 94513
Owner/Operator Telephone: 925-522-6788
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MORSALEAN ZAZI
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 6700 BRENTWOOD BLVD
Owner/Operator City,State,Zip: BRENTWOOD, CA 94513
Owner/Operator Telephone: 925-516-6602
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2018-06-11 00:00:00.0
Handler Name: MILLENNIUM AUTO CARE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

F25
WSW
1/8-1/4
0.215 mi.
1134 ft.

BRENTWOOD GAS MART
6700 BRENTWOOD BLVD
BRENTWOOD, CA 94513

Site 2 of 5 in cluster F

UST **U003784424**
N/A

Relative:
Higher
Actual:
68 ft.

UST:

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Facility ID: 07-000-772830
Permitting Agency: Contra Costa County Health Services Department
Latitude: 37.959141
Longitude: -121.695435

Name: BRENTWOOD GAS MART
Address: 6700 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Facility ID: 772830
Permitting Agency: CONTRA COSTA COUNTY
Latitude: 37.960484
Longitude: -121.694074

F26
WSW
1/8-1/4
0.215 mi.
1134 ft.

JB MARKET, LLC DBA CHEVRON
6700 BRENTWOOD BLVD
BRENTWOOD, CA 94513

Site 3 of 5 in cluster F

CERS HAZ WASTE **S113122046**
CERS TANKS **N/A**
CONTRA COSTA CO. SITE LIST
CERS

Relative:
Higher
Actual:
68 ft.

CERS HAZ WASTE:

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 44356
CERS ID: 10016236
CERS Description: Hazardous Waste Generator

CERS TANKS:

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 44356
CERS ID: 10016236
CERS Description: Underground Storage Tank

CONTRA COSTA CO. SITE LIST:

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0029507
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >100K-250K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 772830

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City: BRENTWOOD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Facility ID: FA0029507
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 772830

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0029507
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >100K-250K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 772830

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0029507
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 772830

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0029507
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA
Cupa Number: 772830

CERS:

Name: JB MARKET, LLC DBA CHEVRON
Address: 6700 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 44356
CERS ID: 10016236
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/31/2018
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overflow prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Returned to compliance on 02/14/2019. OBSERVATION: Owner/Operator failed to meet one or more of the requirements applicable to overfill prevention equipment. Both flappers were not able to be removed by technician. CORRECTIVE ACTION: Maintain overfill prevention system to comply with the deficiencies noted above. Submit verification.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 3/26/2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections

Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/16/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 6/10/2014
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections

Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 10/22/2014. US 25 TRAINING 23 CCR/2715(F)
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 11/10/2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Training - General
Violation Notes: Returned to compliance on 05/26/2015.
Violation Division: Contra Costa County Health Services Department

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Violation Program: HMRRP
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 3/26/2013
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Training - General
Violation Notes: Returned to compliance on 10/23/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/31/2018
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 10/31/2018. OBSERVATION: Owner/Operator did not properly intall, calibrate, operate and/or maintain leak detection equipment. 87 GRADE DID NOT RESTRICT FLOW DURING TEST. CORRECTIVE ACTION: Properly intall, calibrate, operate and/or maintain leak detection equipment. TECHNICIAN REPAIRED MLLD TO PROPERLY RESTRICT FLOW.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/27/2016
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 11/25/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/31/2018
Citation: 23 CCR 16 2716(a) through (e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(a) through (e)
Violation Description: For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.

Violation Notes: Returned to compliance on 02/05/2019. OBSERVATION: Facility did not comply with one or more of the following DO monthly inspection requirements: Performed by an ICC certified DO; Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy; Inspect for the presence of liquid/debris in spill containers; Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly; Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit; Check that all testing and maintenance has been completed and documented; Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(c). DO inspections conducted after 9/30/2018 must be every 30 days and in accordance with sections 2716(a)-(e). Last DO Report was dated 3/21/2018, DO reports must be done every 30 days. CORRECTIVE ACTION: Ensure that DO is complying with all the [Truncated]

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 11/10/2014
Citation: Un-Specified
Violation Description: UST Program - Training - For use of Local Ordinance only.
Violation Notes: Returned to compliance on 05/26/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 10/31/2017
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion.
Violation Notes: Returned to compliance on 10/31/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 10/31/2018

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Citation: HSC 6.7 25299(a)(9) - California Health and Safety Code, Chapter 6.7, Section(s) 25299(a)(9)
Violation Description: Leak detection equipment disabled or tampered with in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak.
Violation Notes: Returned to compliance on 10/31/2018. OBSERVATION: Owner/Operator tampered with and/or disabled leak detection equipment in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak. Both 87 and 91 grade STP sumps had 208 sensors lifted to a high point to prevent the alarm from going off. CORRECTIVE ACTION: Owner/Operator shall not disable or tamper with monitoring equipment. Repair/replace equipment so that it functions per manufacturer's specifications. Technician moved sensors to proper location, keep sensors located at the correct locations at all times.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/27/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/24/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 11/10/2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/26/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/31/2017
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 10/31/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Violation Date: 4/14/2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Tiered Permitting - Administration/Documentation - General
Violation Notes: Returned to compliance on 04/17/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 2/14/2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overflow prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overflow prevention equipment that does not use flow restrictors on vent piping to meet overflow prevention equipment requirements when the overflow prevention equipment is installed, repaired, or replaced on and after October 1, - 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overflow prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overflow prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 01/28/2020. OBSERVATION: Owner/Operator failed to meet one or more of the requirements applicable to overflow prevention equipment. Flapper was found to be above the 95% threshold. CORRECTIVE ACTION: Maintain overflow prevention system to comply with the deficiencies noted above. Submit verification.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 10/27/2016
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 12/03/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 9/10/2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)

Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Returned to compliance on 01/03/2020. Observation: Facility has failed to do one of the following: 1) Test overfill Once by October 13, 2018 and every 36 months thereafter 2) Owners or operators shall submit a copy of the G Overfill Prevention Equipment Inspection Report FormG to the local agency within 30 days of the completion of the overfill prevention equipment inspection. 3) Owners or operators shall notify the local agency at least 48 hours prior to conducting the inspection. Corrective Action: Notify CCHSHMP of the Overfill Prevention testing date within 48 hours notice and/or Submit a completed "Overfill Prevention Equipment Inspection Report Form" to CCHSHMP within 30 days of the testing date.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 5/26/2015
Citation: Un-Specified
Violation Description: UST Program - Training - For use of Local Ordinance only.
Violation Notes: Returned to compliance on 05/26/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Site Name: JB Market, LLC DbA Chevron
Violation Date: 5/26/2015
Citation: Un-Specified
Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only.
Violation Notes: Returned to compliance on 05/26/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 10/27/2016
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 10/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 10/31/2017
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 10/31/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 3/26/2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Training - General
Violation Notes: Returned to compliance on 06/10/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 10/31/2018
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 10/31/2018. OBSERVATION: Owner/Operator failed to have at least one employee present during operating hours

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO). CORRECTIVE ACTION: Ensure that at least one employee is present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO). Technician/DO trained employee before starting MC.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 3/26/2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections

Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/14/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 10/27/2016
Citation: 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)

Violation Description: Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.

Violation Notes: Returned to compliance on 04/12/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC DbA Chevron
Violation Date: 10/31/2018
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2

Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "

Violation Notes: Returned to compliance on 12/28/2018. OBSERVATION: Owner/Operator failed to meet one or more of the following spill container requirements: install or maintain spill container which is liquid-tight, has a minimum capacity of five gallons, has a functional drain valve or other method for the removal of liquid from the spill container, and is resistant to galvanic corrosion; did not perform tightness test at installation, every 12 months thereafter, or within 30 days after a repair; did not have tested using manufacturer's

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

guidelines, industry codes, engineering standards, or method approved by PE, or was not tested by a certified UST service technician; or failed to maintain testing records for 36 months. 91 Spill bucket failed testing and could not be fixed. CORRECTIVE ACTION: Install or repair spill buckets to meet all of the listed requirements, have tightness tested using approved method, by certified UST service technician, and submit documentation to verify compliance. Maintain all testing records for 36 [Truncated]

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 6/10/2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/09/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/27/2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/23/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 3/26/2013
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 04/04/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/27/2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple

Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.

Violation Notes: Returned to compliance on 10/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/31/2018
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 01/09/2019. OBSERVATION: The business failed to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material including familiarity with the emergency response plan or failure to document and maintain training records for a minimum of three years. CORRECTIVE ACTION: Establish and electronically submit an employee training program containing provisions to ensure initial and annual training for all employees in safety procedures in the event of a release or threatened release of a hazardous material and document and maintain training records for a minimum of three years.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/31/2017
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 11/02/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 6/10/2014
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/09/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 3/27/2018
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 03/27/2018.
Violation Division: Contra Costa County Health Services Department

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 10/27/2016
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure to comply with one or more of the following: Failure to install or maintain a liquid-tight spill bucket. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill bucket/spill container. Be resistant to galvanic corrosion.
Violation Notes: Returned to compliance on 10/27/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 7/1/2019
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes: Returned to compliance on 01/28/2020. Observation: As of September 6, 2019, the subject facility does not possess a current and valid CUPA Permit. Corrective Action: 1) Conduct tightness testing of secondary containment at least once every 36 months 1) Immediately Remit payment for all outstanding Certified Unified Program Agency permit fees to CCHS Finance Department (925) 957-5520. and/or 2) Immediately address and correct all outstanding Underground Storage Tank violations and/or any Class I violations in other CUPA programs. A list of outstanding violations is enclosed, if applicable.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 3/26/2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 04/11/2013.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Violation Date: 3/26/2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/16/2013.
Violation Division: Contra Costa County Health Services Department

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Violation Program: HW
Violation Source: CERS

Evaluation:

Eval General Type: Other/Unknown
Eval Date: 01-22-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-28-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-26-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-26-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-12-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Eval General Type: Other/Unknown
Eval Date: 10-20-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-27-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-09-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-26-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: 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: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-25-2019
Violations Found: Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-20-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-10-2019
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-20-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-29-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-04-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

| | |
|--------------------|--|
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 11-04-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-12-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-14-2017 |
| Violations Found: | Yes |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HW |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 05-26-2015 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-10-2014 |
| Violations Found: | Yes |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 10-31-2017 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-31-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-31-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-10-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-26-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-27-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-29-2019
Violations Found: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-08-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-29-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-10-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Enf Action Date: 03-26-2013
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: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 03-26-2013
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: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 03-26-2013
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: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 03-27-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 04-14-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Enf Action Program: HW
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 04-25-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 05-26-2015
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: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 06-10-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 06-10-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 09-10-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-27-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-31-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-31-2018
Enf Action Type: Notice of Violation (Unified Program)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-31-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 11-10-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 44356
Site Name: JB Market, LLC Dba Chevron
Site Address: 6700 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 11-10-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 44356
Facility Name: JB Market, LLC Dba Chevron
Env Int Type Code: HWG
Program ID: 10016236
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.959133
Longitude: -121.695419

Affiliation:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco BlvdSuite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Document Preparer
Entity Name: Ajmer Purewal
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: Legal Owner
Entity Name: Ranjit Johal
Entity Title: Not reported
Affiliation Address: 5700 Stoneridge mall rd #240
Affiliation City: pleasanton
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94588
Affiliation Phone: (510) 972-8875

Affiliation Type Desc: UST Property Owner Name
Entity Name: JB Market LLC
Entity Title: Not reported
Affiliation Address: 6700 BRENTWOOD BLVD.
Affiliation City: BRENTWOOD
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (510) 972-8875

Affiliation Type Desc: UST Tank Owner
Entity Name: JB Market LLC
Entity Title: Not reported
Affiliation Address: 6700 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: ca
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (510) 972-8875

Affiliation Type Desc: Environmental Contact
Entity Name: Ajmer Purewal
Entity Title: Not reported
Affiliation Address: 5700 Stoneridge mall rd #240
Affiliation City: pleasanton
Affiliation State: CA
Affiliation Country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

Affiliation Zip: 94588
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Ajmer Purewal
Entity Title: PARTNER
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: JB Market LLC, dba Chevron
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: UST Tank Operator
Entity Name: JB Market LLC
Entity Title: Not reported
Affiliation Address: 6700 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94588
Affiliation Phone: (510) 972-8875

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 6700 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: JB Market, 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: (510) 972-8875

Affiliation Type Desc: Property Owner
Entity Name: JB Market LLC
Entity Title: Not reported
Affiliation Address: 6700 BRENTWOOD BLVD.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

JB MARKET, LLC DBA CHEVRON (Continued)

S113122046

| | |
|------------------------|-------------------------------|
| Affiliation City: | BRENTWOOD |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94513 |
| Affiliation Phone: | (510) 972-8875 |
| | |
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | JB MARket LLCc/oAjmer Purewal |
| Entity Title: | Operator |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (510) 972-8875 |

F27
WSW
1/8-1/4
0.215 mi.
1134 ft.

MILLENNIUM AUTO CARE
6700 BRENTWOOD BLVD
BRENTWOOD, CA 94513

RCRA NonGen / NLR

1026057100
CAL000453293

Site 4 of 5 in cluster F

Relative:
Higher
Actual:
68 ft.

| | |
|--|---------------------------|
| RCRA Listings: | |
| Date Form Received by Agency: | 2020-03-05 00:00:00.0 |
| Handler Name: | MILLENNIUM AUTO CARE |
| Handler Address: | 6700 BRENTWOOD BLVD |
| Handler City,State,Zip: | BRENTWOOD, CA 94513 |
| EPA ID: | CAL000453293 |
| Contact Name: | SERAJ ZAZAI |
| Contact Address: | 6700 BRENTWOOD BLVD |
| Contact City,State,Zip: | BRENTWOOD, CA 94513 |
| Contact Telephone: | 925-516-6602 |
| Contact Fax: | 925-516-6682 |
| Contact Email: | MACSHOP6700@GMAIL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 6700 BRENTWOOD BLVD |
| Mailing City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner Name: | SERAJ ZAZAI |
| Owner Type: | Other |
| Operator Name: | SERAJ ZAZAI |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MILLENNIUM AUTO CARE (Continued)

1026057100

| | |
|--|-----------------------|
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRC Permit Baseline: | Not on the Baseline |
| 2018 GPRC Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRC Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDs Where RCRA CA has Been Imposed Universe: | No |
| TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSD Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2020-03-06 18:11:50.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---------------------------|---------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SERAJ ZAZAI |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 6700 BRENTWOOD BLVD |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MILLENNIUM AUTO CARE (Continued)

1026057100

| | |
|--------------------------------|---------------------|
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 720-492-4899 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SERAJ ZAZAI |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 6700 BRENTWOOD BLVD |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-516-6602 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|--|---------------------------|
| Receive Date: | 2020-03-05 00:00:00.0 |
| Handler Name: | MILLENNIUM AUTO CARE |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|--------------------|---------------------------|
| NAICS Code: | 811111 |
| NAICS Description: | GENERAL AUTOMOTIVE REPAIR |

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

F28
WSW
1/8-1/4
0.215 mi.
1134 ft.

MILLENNIUM AUTO CARE
6700 BRENTWOOD BLVD
BRENTWOOD, CA 94513
Site 5 of 5 in cluster F

CONTRA COSTA CO. SITE LIST **S109420856**
HWTS **N/A**

Relative:
Higher
Actual:
68 ft.

CONTRA COSTA CO. SITE LIST:
 Name: MILLENNIUM AUTO CARE
 Address: 6700 BRENTWOOD BLVD
 City: BRENTWOOD
 Facility ID: FA0030591
 Billing Status: INACTIVE, NON-BILLABLE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MILLENNIUM AUTO CARE (Continued)

S109420856

Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: LESS THAN 1000 LBS
Region: CONTRA COSTA
Cupa Number: 773922

Name: MILLENNIUM AUTO CARE
Address: 6700 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0030591
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: LESS THAN 5 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 773922

Name: MILLENNIUM AUTO CARE
Address: 6700 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0030591
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 773922

HWTS:

Name: MILLENNIUM AUTO CARE
Address: 6700 BRENTWOOD BLVD
Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513
EPA ID: CAL000436908
Inactive Date: 06/30/2019
Create Date: 06/11/2018
Last Act Date: 11/26/2019
Mailing Name: Not reported
Mailing Address: 6700 BRENTWOOD BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: BRENTWOOD, CA 94513
Owner Name: SHAWN ZAZI
Owner Address: 2914 SIMBA PL
Owner Address 2: Not reported
Owner City,State,Zip: BRENTWOOD, CA 94513
Contact Name: SHAWN ZAZI
Contact Address: 6700 BRENTWOOD BLVD
Contact Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513

NAICS:

EPA ID: CAL000436908
Create Date: 2018-06-11 11:51:47
NAICS Code: 811111
NAICS Description: General Automotive Repair
Issued EPA ID Date: 2018-06-11 11:51:47
Inactive Date: Not reported
Facility Name: MILLENNIUM AUTO CARE
Facility Address: 6700 BRENTWOOD BLVD
Facility Address 2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MILLENNIUM AUTO CARE (Continued)

S109420856

Facility City: BRENTWOOD
Facility County: 07
Facility State: CA
Facility Zip: 94513

Name: MILLENNIUM AUTO CARE
Address: 6700 BRENTWOOD BLVD
Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94573
EPA ID: CAL000297024
Inactive Date: 06/30/2015
Create Date: 07/28/2005
Last Act Date: 05/31/2018
Mailing Name: Not reported
Mailing Address: 6700 BRENTWOOD BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: BRENTWOOD, CA 945130000
Owner Name: MINA ZAZI
Owner Address: 6700 BRENTWOOD BLVD
Owner Address 2: Not reported
Owner City,State,Zip: BRENTWOOD, CA 945130000
Contact Name: MORSALEAN ZAZI
Contact Address: 2914 SIMBA PLACE
Contact Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 945130000

NAICS:

EPA ID: CAL000297024
Create Date: 2005-07-28 14:34:35
NAICS Code: 811111
NAICS Description: General Automotive Repair
Issued EPA ID Date: 2005-07-28 14:34:35
Inactive Date: 2015-06-30 00:00:00
Facility Name: MILLENNIUM AUTO CARE
Facility Address: 6700 BRENTWOOD BLVD
Facility Address 2: Not reported
Facility City: BRENTWOOD
Facility County: 19
Facility State: CA
Facility Zip: 94573

**29
NW
1/8-1/4
0.215 mi.
1137 ft.**

**CUMMINGS RESIDENCE
221 E SIMS
OAKLEY, CA 94561**

**CONTRA COSTA CO. SITE LIST S105455519
N/A**

**Relative:
Higher
Actual:
69 ft.**

CONTRA COSTA CO. SITE LIST:
Name: CUMMINGS RESIDENCE
Address: 221 E SIMS
City: OAKLEY
Facility ID: FA0029288
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CUMMINGS RESIDENCE (Continued)

S105455519

Cupa Number: 772603

30
WNW
1/8-1/4
0.229 mi.
1208 ft.

CITY OF BRENTWOOD PUBLIC WORKS WELL #14
8414 LONE TREE WY
BRENTWOOD, CA 94513

CONTRA COSTA CO. SITE LIST

S107591824
N/A

Relative:
Higher
Actual:
67 ft.

CONTRA COSTA CO. SITE LIST:
 Name: CITY OF BRENTWOOD PUBLIC WORKS WELL #14
 Address: 8414 LONE TREE WY
 City: BRENTWOOD
 Facility ID: FA0030314
 Billing Status: ACTIVE, BILLABLE
 Program Status: CONTRA COSTA CO. SITE LIST
 Program/Elements: HMBP: >10K-100K LBS, 0-19 EMPLOYEES
 Region: CONTRA COSTA
 Cupa Number: 773645

G31
West
1/8-1/4
0.239 mi.
1264 ft.

BIG B LUMBER
6600 BRENTWOOD BLVD
BRENTWOOD, CA 94513

RCRA NonGen / NLR

1024841776
CAL000391714

Site 1 of 2 in cluster G

Relative:
Higher
Actual:
68 ft.

RCRA Listings:
 Date Form Received by Agency: 2013-12-04 00:00:00.0
 Handler Name: BIG B LUMBER
 Handler Address: 6600 BRENTWOOD BLVD
 Handler City,State,Zip: BRENTWOOD, CA 94513
 EPA ID: CAL000391714
 Contact Name: TODD AUEN
 Contact Address: 3027 CAREY LN
 Contact City,State,Zip: BRENTWOOD, CA 94513
 Contact Telephone: 925-634-2442
 Contact Fax: 206-338-3197
 Contact Email: BIGBTODD@MSN.COM
 Contact Title: Not reported
 EPA Region: 09
 Land Type: Not reported
 Federal Waste Generator Description: Not a generator, verified
 Non-Notifier: Not reported
 Biennial Report Cycle: Not reported
 Accessibility: Not reported
 Active Site Indicator: Handler Activities
 State District Owner: Not reported
 State District: Not reported
 Mailing Address: 6600 BRENTWOOD BLVD
 Mailing City,State,Zip: BRENTWOOD, CA 94513-0000
 Owner Name: BIG B LUMBER
 Owner Type: Other
 Operator Name: TODD AUEN
 Operator Type: Other
 Short-Term Generator Activity: No
 Importer Activity: No
 Mixed Waste Generator: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BIG B LUMBER (Continued)

1024841776

| | |
|--|-----------------------|
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDs Where RCRA CA has Been Imposed Universe: | No |
| TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-06 17:03:30.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

Owner/Operator Indicator:

Owner/Operator Name:

Operator

TODD AUEN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG B LUMBER (Continued)

1024841776

| | |
|--------------------------------|--------------------------|
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 3027 CAREY LN |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-634-2442 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | BIG B LUMBER |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 6600 BRENTWOOD BLVD |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513-0000 |
| Owner/Operator Telephone: | 925-634-2442 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|--|---------------------------|
| Receive Date: | 2013-12-04 00:00:00.0 |
| Handler Name: | BIG B LUMBER |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|--------------------|---------------------------------|
| NAICS Code: | 44419 |
| NAICS Description: | OTHER BUILDING MATERIAL DEALERS |

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

G32
West
1/8-1/4
0.239 mi.
1264 ft.

BIG B LUMBER INC
6600 BRENTWOOD BLVD
BRENTWOOD, CA 94513

CERS HAZ WASTE
CONTRA COSTA CO. SITE LIST
CERS

S103464404
N/A

Site 2 of 2 in cluster G

Relative:
Higher

CERS HAZ WASTE:

Actual:
68 ft.

Name: BIG B LUMBER INC
Address: 6600 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 387844
CERS ID: 10015927
CERS Description: Hazardous Waste Generator

CONTRA COSTA CO. SITE LIST:

Name: BIG B LUMBER INC
Address: 6600 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0029404
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 20+ EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 772724

Name: BIG B LUMBER INC
Address: 6600 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0029404
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 772724

CERS:

Name: BIG B LUMBER INC
Address: 6600 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 387844
CERS ID: 10015927
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 387844
Site Name: BIG B LUMBER INC
Violation Date: 1/21/2020
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)

Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violation Notes: Returned to compliance on 02/12/2020. OBSERVATION: The business failed to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material including familiarity with the emergency response plan or failure to document and maintain training records for a minimum of three years. CORRECTIVE ACTION: Establish and

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG B LUMBER INC (Continued)

S103464404

electronically submit an employee training program containing provisions to ensure initial and annual training for all employees in safety procedures in the event of a release or threatened release of a hazardous material and document and maintain training records for a minimum of three years.

Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 387844
Site Name: BIG B LUMBER INC
Violation Date: 3/3/2017
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/03/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-14-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-18-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG B LUMBER INC (Continued)

S103464404

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-14-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-03-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-21-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-14-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-03-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 387844
Site Name: BIG B LUMBER INC
Site Address: 6600 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 01-21-2020
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG B LUMBER INC (Continued)

S103464404

Enf Action Source: CERS

Site ID: 387844
Site Name: BIG B LUMBER INC
Site Address: 6600 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 03-03-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 387844
Facility Name: BIG B LUMBER INC
Env Int Type Code: HMBP
Program ID: 10015927
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.960232
Longitude: -121.695160

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Todd Auen
Entity Title: Purchasing 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: Legal Owner
Entity Name: Big B Lumber
Entity Title: Not reported
Affiliation Address: 6600 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 634-2442

Affiliation Type Desc: Property Owner
Entity Name: Brentwood Investors
Entity Title: Not reported
Affiliation Address: 6600 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 634-2442

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG B LUMBER INC (Continued)

S103464404

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Environmental Contact
Entity Name: amerigas
Entity Title: Not reported
Affiliation Address: 4051 Port Chicago Hwy
Affiliation City: Concord
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94520
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Big B Lumber
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 634-2442

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 6600 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Todd Auen
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: BIG B LUMBER INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BIG B LUMBER INC (Continued)

S103464404

Affiliation Zip: Not reported
Affiliation Phone: Not reported

H33
WSW
1/8-1/4
0.240 mi.
1265 ft.

BRENTWOOD GAS & MORE
6750 BRENTWOOD BLVD
BRENTWOOD, CA 94513
Site 1 of 5 in cluster H

CERS HAZ WASTE
CERS TANKS
EMI
HAZNET
CONTRA COSTA CO. SITE LIST
CERS
HWTS

S103668829
N/A

Relative:
Higher

Actual:
72 ft.

CERS HAZ WASTE:

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 388198
CERS ID: 10483330
CERS Description: Hazardous Waste Generator

CERS TANKS:

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 388198
CERS ID: 10483330
CERS Description: Underground Storage Tank

EMI:

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Year: 2017
County Code: 7
Air Basin: SF
Facility ID: 112030
Air District Name: BA
SIC Code: 5411
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.212733711
Reactive Organic Gases Tons/Yr: 0.212733711
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr: Not reported

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Year: 2018
County Code: 7
Air Basin: SF
Facility ID: 112030
Air District Name: BA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

SIC Code: 5541
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.212733711
Reactive Organic Gases Tons/Yr: 0.212733711
Carbon Monoxide Emissions Tons/Yr: Not reported
NOX - Oxides of Nitrogen Tons/Yr: Not reported
SOX - Oxides of Sulphur Tons/Yr: Not reported
Particulate Matter Tons/Yr: Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr: Not reported

HAZNET:

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
Address 2: Not reported
City, State, Zip: BRENTWOOD, CA 94513
Contact: SODHI SINGH
Telephone: 9254165668
Mailing Name: Not reported
Mailing Address: 6750 BRENTWOOD BLVD

Year: 2017
Gepaid: CAL000416000
TSD EPA ID: CAT080013352
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid
Regeneration, Organics Recovery Ect
Tons: 0.231

Additional Info:

Year: 2017
Gen EPA ID: CAL000416000

Shipment Date: 20171215
Creation Date: 8/3/2018 18:30:42
Receipt Date: 20171229
Manifest ID: 018240839JJK
Trans EPA ID: CAD028277036
Trans Name: ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSD EPA ID: CAT080013352
Trans Name: DEMENNO / KERDOON
TSD EPA ID: Not reported
TSD EPA Name: Not reported
Waste Code Description: 135 - Unspecified aqueous solution
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid
Regeneration, Organics Recovery Ect
Quantity Tons: 0.231
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CONTRA COSTA CO. SITE LIST:

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0032338
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >250K-500K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 748817

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0032338
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: LESS THAN 5 TONS/YEAR
Region: CONTRA COSTA
Cupa Number: 748817

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0032338
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: UNDERGROUND STORAGE TANK SITE
Region: CONTRA COSTA
Cupa Number: 748817

CERS:

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 388198
CERS ID: 10483330
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 9/10/2019
Citation: 23 CCR 16 2712(b)(1)(F) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(F)
Violation Description: "Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test of the secondary containment system upon installation, within six months of installation and every 36 months thereafter. Perform the test of a secondary containment component within 30 days of a repair or discontinuing vacuum, pressure or hydrostatic monitoring. Use a procedure that demonstrates the system works as well as at installation. Use applicable manufacturer guidelines, industry codes,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Violation Notes: engineering standard, or professional engineer approval. Performed by a certified service technician. Maintain records of secondary containment testing for 36 months." Returned to compliance on 09/20/2019. Observation: Facility has failed to do one of the following: 1) Conduct tightness testing of secondary containment at least once every 36 months 2) Underground storage tank owners and operators shall submit a copy of the G Secondary Containment Testing Report FormG to the local agency within 30 days of the completion of the secondary containment test. 3) The owner or operator shall notify the local agency at least 48 hours prior to conducting the secondary containment test. Corrective Action: Notify CCHSHMP of the Secondary Containment Testing date within 48 hours notice and/or Submit a completed G Secondary Containment Testing Report FormG to CCHSHMP within 30 days of the testing date.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/27/2017
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)

Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitor at least hourly. Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.

Violation Notes: Returned to compliance on 02/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 9/10/2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)

Violation Description: Failure to comply with one or more of the following overflow prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overflow prevention equipment that does not use flow restrictors on vent piping to meet overflow prevention equipment requirements when the overflow prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Violation Notes: days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months. Returned to compliance on 12/26/2019. Observation: Facility has failed to do one of the following: 1) Test overfill Once by October 13, 2018 and every 36 months thereafter 2) Owners or operators shall submit a copy of the G Overfill Prevention Equipment Inspection Report FormG to the local agency within 30 days of the completion of the overfill prevention equipment inspection. 3) Owners or operators shall notify the local agency at least 48 hours prior to conducting the inspection. Corrective Action: Notify CCHSHMP of the Overfill Prevention testing date within 48 hours notice and/or Submit a completed "Overfill Prevention Equipment Inspection Report Form" to CCHSHMP within 30 days of the testing date.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/27/2017
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/29/2017. OBSERVATION: The annotated site map submitted to the CUPA does not include the following map elements; all adjacent streets, location of all storm drains at the facility, nor the location of the Carbon Dioxide dewar. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System (CERS).

Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 12/5/2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only

Violation Notes: Returned to compliance on 12/23/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/27/2017
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2

Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 02/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/27/2017
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/29/2017. OBSERVATION: During the HMBP inspection, CCHSHMP observed a 82 gallon Carbon Dioxide dewar used for the fountain drink machine at the facility. The facility has not submitted a complete Hazardous Materials Inventory Chemical Description page for Carbon Dioxide to the CUPA. CORRECTIVE ACTION: Complete and submit the Hazardous Materials Inventory Chemical Description page for Carbon Dioxide electronically in the California Environmental Reporting System (CERS).

Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/3/2014
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 02/03/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/3/2016
Citation: Un-Specified

Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only.
Violation Notes: Returned to compliance on 02/03/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 7/3/2018
Citation: 23 CCR 16 2715(f)(3) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)(3)

Violation Description: Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the UPA.

Violation Notes: Returned to compliance on 07/20/2018. OBSERVATION: Owner/Operator did not maintain a list of employees trained by the DO. DO training record was not available for review during the 2/12/18 inspection. CORRECTIVE ACTION: Maintain list of employees trained by the DO. Submit a copy of the DO training record to the CUPA.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 7/3/2018
Citation: HSC 6.7 25290.1(c),25290.2(c),25291(a)(2),2529.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c),25290.2(c),25291(a)(2),2529.1(e)

Violation Description: Failure to maintain secondary containment (e.g., failure of secondary containment testing).

Violation Notes: Returned to compliance on 08/01/2018. OBSERVATION: Secondary containment testing was last performed on March 11, 2014 and was due by March 2017. Testing has not been completed and is 16 months past due. Secondary containment testing is required once every 36 months. CORRECTIVE ACTION: Immediately schedule this test and provide 48 hours notification to the CUPA.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 6/24/2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple

Violation Description: Haz Waste Generator Program - Administration/Documentation - General

Violation Notes: Returned to compliance on 08/22/2014.

Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/5/2013
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 02/19/2013.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/27/2020
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)

Violation Description: Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.

Violation Notes: Returned to compliance on 02/27/2020. OBSERVATION: The 91 Vmi Line leak detector failed to meet one or more of the following requirements: Monitor at least hourly; Capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g.; Restricting or shutting off

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

the flow of product through the piping when a leak is detected.
CORRECTIVE ACTION: The technician re-adjusted the mIld and it passed correcting the violation.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/27/2020
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)

Violation Description: Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected.

Violation Notes: Returned to compliance on 02/27/2020. OBSERVATION: The facility uses Bravo box UDCs. Owner/Operator did not continuously monitor double-walled piping with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected. The following floats failed: UDC 7/8 middle float, 9/10 north float, 11/12 north float, 5/6 north float, 1/2 south float. The north float in 9/10 was replaced with a used float and the others were cleaned, re-tightened and passed. CORRECTIVE ACTION: The floats and chains were then re-tested and passed during the inspection.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/27/2017
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)

Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.

Violation Notes: Returned to compliance on 02/27/2017.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/3/2015
Citation: Un-Specified

Violation Description: UST Program - Release/Leaks/Spills - For use of Local Ordinance only.

Violation Notes: Returned to compliance on 10/05/2015.

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 10/2/2015
Citation: Un-Specified

Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only

Violation Notes: Returned to compliance on 10/05/2015.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 6/24/2014
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 08/22/2014.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/12/2018
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Training - General
Violation Notes: Returned to compliance on 07/20/2018. OBSERVATION: The business failed to provide annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material including familiarity with the emergency response plan or failure to document and maintain training records for a minimum of three years. CORRECTIVE ACTION: Establish and electronically submit an employee training program containing provisions to ensure annual training for all employees in safety procedures in the event of a release or threatened release of a hazardous material and document and maintain training records for a minimum of three years.

Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 7/19/2018
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284

Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.

Violation Notes: Not reported
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/27/2017
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)

Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).

Violation Notes: Returned to compliance on 02/27/2017.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/3/2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 02/17/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/3/2015
Citation: Un-Specified
Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only.

Violation Notes: Returned to compliance on 02/03/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Violation Date: 2/12/2018
Citation: 23 CCR 16 2715(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)(2)
Violation Description: Failure to have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 07/03/2018. OBSERVATION: Owner/Operator failed to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO). CORRECTIVE ACTION: Ensure that at least one employee is present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).

Violation Division: Contra Costa County Health Services Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2017

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-01-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-24-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-02-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-03-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-03-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-03-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-03-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-10-2019
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-02-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-05-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-03-2015
Violations Found: Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-03-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-12-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-01-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

| | |
|--------------------|--|
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-24-2014 |
| Violations Found: | Yes |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-20-2018 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 12-26-2019 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-28-2020 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 02-05-2013 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | HW |
| Eval Source: | CERS |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 02-27-2017 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Contra Costa County Health Services Department |
| Eval Program: | UST |
| Eval Source: | CERS |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-20-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-01-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-20-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-05-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 388198
Site Name: Brentwood Gas & More

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-03-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-03-2015
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: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-03-2015
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: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-03-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-05-2013
Enf Action Type: Notice of Violation (Unified Program)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-12-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-12-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-27-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-27-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 02-27-2020
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 06-24-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 06-24-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 07-03-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Enf Action Date: 07-19-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 09-10-2019
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 10-02-2015
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: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 388198
Site Name: Brentwood Gas & More
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 12-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 388198
Facility Name: Brentwood Gas & More
Env Int Type Code: HMBP
Program ID: 10483330
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.958420
Longitude: -121.695700

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Affiliation:

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco Blvd Suite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Document Preparer
Entity Name: Sukhwinder Singh
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Sodhi Petroleum Inc dba Brentwood Gas & More
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 516-4668

Affiliation Type Desc: UST Permit Applicant
Entity Name: Sukhwinder Singh
Entity Title: Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 516-4668

Affiliation Type Desc: UST Tank Operator
Entity Name: Sodhi Petroleum Inc dba Brentwood Gas & More
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd.
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-4668

Affiliation Type Desc: Environmental Contact
Entity Name: Jim Day
Entity Title: Not reported
Affiliation Address: 1097 Bronco Dr
Affiliation City: Plumas Lake
Affiliation State: CA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

Affiliation Country: Not reported
Affiliation Zip: 95961
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Sundeep Kaur
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd.
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-4668

Affiliation Type Desc: Property Owner
Entity Name: Sodhi Petroleum Inc dba Brentwood Gas & More
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd.
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-4668

Affiliation Type Desc: UST Property Owner Name
Entity Name: Sodhi Petroleum Inc dba Brentwood Gas & More
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd.
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 516-4668

Affiliation Type Desc: UST Tank Owner
Entity Name: Sodhi Petroleum Inc dba Brentwood Gas & More
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd.
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 945113
Affiliation Phone: (925) 516-4668

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd.
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Sukhwinder Singh
Entity Title: Manager

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD GAS & MORE (Continued)

S103668829

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: BRENTWOOD GAS & MORE
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

HWTS:

Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513
EPA ID: CAL000416000
Inactive Date: 06/30/2017
Create Date: 04/07/2016
Last Act Date: 04/07/2016
Mailing Name: Not reported
Mailing Address: 6750 BRENTWOOD BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: BRENTWOOD, CA 94513
Owner Name: SUNDEEP KAUR
Owner Address: 2578 ALBERTINE LN
Owner Address 2: Not reported
Owner City,State,Zip: BRENTWOOD, CA 94513
Contact Name: SODHI SINGH
Contact Address: 6750 BRENTWOOD BLVD
Contact Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513

NAICS:

EPA ID: CAL000416000
Create Date: 2016-04-07 10:50:51
NAICS Code: 44719
NAICS Description: Other Gasoline Stations
Issued EPA ID Date: 2016-04-07 10:50:51
Inactive Date: 2017-06-30 00:00:00
Facility Name: BRENTWOOD GAS & MORE
Facility Address: 6750 BRENTWOOD BLVD
Facility Address 2: Not reported
Facility City: BRENTWOOD
Facility County: 07
Facility State: CA
Facility Zip: 94513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

H34
WSW
1/8-1/4
0.240 mi.
1265 ft.

DRAG ON PERFORMANCE
6750 BRENTWOOD BLVD
BRENTWOOD, CA 94513

CERS HAZ WASTE
CONTRA COSTA CO. SITE LIST
CERS
HWTS

S124918235
N/A

Relative:
Higher
Actual:
72 ft.

Site 2 of 5 in cluster H
CERS HAZ WASTE:
Name: DRAG ON PERFORMANCE
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 562258
CERS ID: 10484893
CERS Description: Hazardous Waste Generator

CONTRA COSTA CO. SITE LIST:

Name: DRAG ON PERFORMANCE
Address: 6750 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0031109
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 774202

Name: DRAG ON PERFORMANCE
Address: 6750 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0031109
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 774202

Name: DRAG ON PERFORMANCE
Address: 6750 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0031109
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP GENERAL
Region: CONTRA COSTA
Cupa Number: 774202

Name: DRAG ON PERFORMANCE
Address: 6750 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0031109
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: 1K-10K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 774202

Name: DRAG ON PERFORMANCE
Address: 6750 BRENTWOOD BLVD
City: BRENTWOOD
Facility ID: FA0031109

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG: REPORTED ZERO
Region: CONTRA COSTA
Cupa Number: 774202

CERS:

Name: DRAG ON PERFORMANCE
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 562258
CERS ID: 10484893
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 5/1/2015
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/05/2015.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 4/18/2018
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 08/06/2018. OBSERVATION: Owner/Operator failed to report program data electronically into CERS. CORRECTIVE ACTION: Complete all required reporting into CERS.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 8/1/2018
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 08/06/2018. OBSERVATION: Owner/Operator failed to report program data electronically into CERS. CORRECTIVE ACTION: Complete all required reporting into CERS.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 8/14/2017
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 09/27/2017.
Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 5/9/2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5,
Section(s) Multiple

Violation Description: Tiered Permitting Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/17/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 4/18/2018
Citation: HSC 6.5 25189.5(a),25201(a) - California Health and Safety Code,
Chapter 6.5, Section(s) 25189.5(a),25201(a)

Violation Description: Failure to dispose of hazardous waste at a facility which has a permit
from DTSC or disposing of hazardous waste at any point which is not
authorized according to HSC 6.5.

Violation Notes: Returned to compliance on 04/18/2018. OBSERVATION: Owner/Operator
failed to dispose of hazardous waste at a facility which has a permit
from DTSC or disposed of hazardous waste at a point which is not
authorized pursuant to HSC chapter 6.5. CCHSHMP observed not empty
motor quart sized container in the trash can. Several containers were
taken out of the trash the turned upside down to determine if they
poured. All containers removed from the trash poured. CCHSHMP asked
the facility to remove all the remaining containers from the trash and
empty them before throwing them away again. CORRECTIVE ACTION:
Immediately discontinue disposing of hazardous waste at any facility
not permitted by DTSC or causing hazardous waste to be disposed of at
any point which is not authorized pursuant to HSC chapter 6.5.
Properly disposed of hazardous waste has been properly managed, and
that all hazardous wastes will only be disposed at facilities
permitted by DTSC in the future.

Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 6/22/2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5,
Section(s) Multiple

Violation Description: Hazardous Waste Generator Program - Administration/Documentation -
General

Violation Notes: Returned to compliance on 06/22/2016.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Site Name: Drag On Performance
Violation Date: 4/18/2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 04/18/2018. OBSERVATION: 55 gallon poly drum of used antifreeze stored at the facility was observed without a hazardous waste label. CCHSHMP provided the facility with a hazardous waste label to put on the drum. Used antifreeze drum was labeled during the inspection. CORRECTIVE ACTION: Ensure that the container listed above and all other hazardous waste containers continue to be properly labeled.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 4/18/2018
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 04/18/2018. OBSERVATION: Used oil tank located at the facility was observed open. CCHSHMP informed the facility that all hazardous waste containers and tanks must be closed when not actively being filled or emptied. Tank was observed being closed during the inspection. CORRECTIVE ACTION: Ensure hazardous waste tanks and containers are closed when not in use.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 4/18/2018
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 08/01/2018. OBSERVATION: The generator has not obtained an active EPA ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that you have obtained an EPA ID number.
Violation Division: Contra Costa County Health Services Department
Violation Program: HW

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 8/1/2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)

Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violation Notes: Returned to compliance on 08/01/2018. OBSERVATION: Tank of used motor oil located in the back of the shop was observed without a the proper california state hazardous waste label. CORRECTIVE ACTION: CCHSHMP supplied the facility with an appropriate label and the facility labeled the tank during the inspection. No further action required for this violation.

Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 8/14/2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General

Violation Notes: Returned to compliance on 09/12/2017.

Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 6/22/2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General

Violation Notes: Returned to compliance on 06/22/2016.

Violation Division: Contra Costa County Health Services Department
Violation Program: HW
Violation Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Violation Date: 10/16/2018
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)

Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Violation Notes: Returned to compliance on 03/28/2019. OBSERVATION: The business failed to update business plan within 30 days when one of the following occurs: a 100 percent or more increase in the quantity of a previously disclosed material; any handling of a previously undisclosed hazardous material; a change of business address, business ownership, or business name; or a substantial change in the handler's operations that requires modification to any portion of the business plan. CORRECTIVE ACTION: Update all submittal elements effected by the change(s) and electronically submit the update within 30 days.

Violation Division: Contra Costa County Health Services Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:

Eval General Type: Other/Unknown
Eval Date: 05-09-2016
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-18-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-07-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-12-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-01-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-06-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-16-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-01-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Eval Date: 08-14-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-14-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Contra Costa County Health Services Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:

Site ID: 562258
Site Name: Drag On Performance
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 04-18-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 05-01-2015
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: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 05-09-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Site ID: 562258
Site Name: Drag On Performance
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 06-22-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-01-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-14-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513
Enf Action Date: 08-14-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 562258
Site Name: Drag On Performance
Site Address: 6750 BRENTWOOD BLVD
Site City: BRENTWOOD
Site Zip: 94513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Enf Action Date: 10-16-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Contra Costa County Health Services Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:

Site ID: 562258
Facility Name: Drag On Performance
Env Int Type Code: HWG
Program ID: 10484893
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.958420
Longitude: -121.695700

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: Fernando Flores
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Drag On Performance
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Contra Costa County Health Services Department
Entity Title: Not reported
Affiliation Address: 4585 Pacheco BlvdSuite 100
Affiliation City: Martinez
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94553
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: FERNANDO FLORES
Entity Title: CO-OWNER
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: Legal Owner
Entity Name: Fernando Flores
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94513
Affiliation Phone: (925) 727-1274

Affiliation Type Desc: Environmental Contact
Entity Name: Fernando Flores
Entity Title: Not reported
Affiliation Address: 6750 Brentwood Blvd
Affiliation City: Brentwood
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94513
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Fernando Flores
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 727-1274

HWTS:

Name: DELTAS AUTO SERVICE
Address: 6750 BRENTWOOD BLVD
Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513
EPA ID: CAL000430607
Inactive Date: Not reported
Create Date: 09/12/2017
Last Act Date: 09/12/2017
Mailing Name: Not reported
Mailing Address: 6750 BRENTWOOD BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: BRENTWOOD, CA 94513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DRAG ON PERFORMANCE (Continued)

S124918235

Owner Name: CALLETANO SIERRA
Owner Address: 6750 BRENTWOOD BLVD
Owner Address 2: Not reported
Owner City,State,Zip: BRENTWOOD, CA 94513
Contact Name: CALLETANO SIERRA
Contact Address: 6750 BRENTWOOD BLVD
Contact Address 2: Not reported
City,State,Zip: BRENTWOOD, CA 94513

NAICS:

EPA ID: CAL000430607
Create Date: 2017-09-12 11:21:54
NAICS Code: 811111
NAICS Description: General Automotive Repair
Issued EPA ID Date: 2017-09-12 11:21:54
Inactive Date: Not reported
Facility Name: DELTAS AUTO SERVICE
Facility Address: 6750 BRENTWOOD BLVD
Facility Address 2: Not reported
Facility City: BRENTWOOD
Facility County: 07
Facility State: CA
Facility Zip: 94513

H35
WSW
1/8-1/4
0.240 mi.
1265 ft.

SAVERS FUEL MART
6750 BRENTWOOD BLVD
BRENTWOOD, CA 94513

UST U003784174
CDL N/A

Site 3 of 5 in cluster H

Relative:
Higher
Actual:
72 ft.

UST:
Name: BRENTWOOD GAS & MORE
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Facility ID: 07-000-748817
Permitting Agency: Contra Costa County Health Services Department
Latitude: 37.95842
Longitude: -121.6957

Name: SAVERS FUEL MART
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Facility ID: 748817
Permitting Agency: CONTRA COSTA COUNTY
Latitude: 37.959752
Longitude: -121.694327

CDL:

Name: Not reported
Address: 6750 BRENTWOOD BLVD
City,State,Zip: BRENTWOOD, CA 94513
Facility ID: 2000-07-121
Date: 07/22/2000
Labtype: Mobile Lab
Lab Type: Mobile Lab (M) - location where illegal drug lab equipment and materials were found in a vehicle or other mode of transport.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

H36
WSW
1/8-1/4
0.240 mi.
1265 ft.

DELTAS AUTO SERVICE
6750 BRENTWOOD BLVD
BRENTWOOD, CA 94513

RCRA NonGen / NLR

1024862097
CAL000430607

Site 4 of 5 in cluster H

Relative:
Higher

Actual:
72 ft.

| | |
|---|--|
| <p>RCRA Listings:</p> <p>Date Form Received by Agency:</p> <p>Handler Name:</p> <p>Handler Address:</p> <p>Handler City,State,Zip:</p> <p>EPA ID:</p> <p>Contact Name:</p> <p>Contact Address:</p> <p>Contact City,State,Zip:</p> <p>Contact Telephone:</p> <p>Contact Fax:</p> <p>Contact Email:</p> <p>Contact Title:</p> <p>EPA Region:</p> <p>Land Type:</p> <p>Federal Waste Generator Description:</p> <p>Non-Notifier:</p> <p>Biennial Report Cycle:</p> <p>Accessibility:</p> <p>Active Site Indicator:</p> <p>State District Owner:</p> <p>State District:</p> <p>Mailing Address:</p> <p>Mailing City,State,Zip:</p> <p>Owner Name:</p> <p>Owner Type:</p> <p>Operator Name:</p> <p>Operator Type:</p> <p>Short-Term Generator Activity:</p> <p>Importer Activity:</p> <p>Mixed Waste Generator:</p> <p>Transporter Activity:</p> <p>Transfer Facility Activity:</p> <p>Recycler Activity with Storage:</p> <p>Small Quantity On-Site Burner Exemption:</p> <p>Smelting Melting and Refining Furnace Exemption:</p> <p>Underground Injection Control:</p> <p>Off-Site Waste Receipt:</p> <p>Universal Waste Indicator:</p> <p>Universal Waste Destination Facility:</p> <p>Federal Universal Waste:</p> <p>Active Site Fed-Reg Treatment Storage and Disposal Facility:</p> <p>Active Site Converter Treatment storage and Disposal Facility:</p> <p>Active Site State-Reg Treatment Storage and Disposal Facility:</p> <p>Active Site State-Reg Handler:</p> <p>Federal Facility Indicator:</p> <p>Hazardous Secondary Material Indicator:</p> <p>Sub-Part K Indicator:</p> <p>Commercial TSD Indicator:</p> <p>Treatment Storage and Disposal Type:</p> <p>2018 GPRA Permit Baseline:</p> <p>2018 GPRA Renewals Baseline:</p> <p>Permit Renewals Workload Universe:</p> | <p>2017-09-12 00:00:00.0</p> <p>DELTAS AUTO SERVICE</p> <p>6750 BRENTWOOD BLVD</p> <p>BRENTWOOD, CA 94513</p> <p>CAL000430607</p> <p>CALLETANO SIERRA</p> <p>6750 BRENTWOOD BLVD</p> <p>BRENTWOOD, CA 94513</p> <p>925-634-1651</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>09</p> <p>Not reported</p> <p>Not a generator, verified</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Handler Activities</p> <p>Not reported</p> <p>Not reported</p> <p>6750 BRENTWOOD BLVD</p> <p>BRENTWOOD, CA 94513</p> <p>CALLETANO SIERRA</p> <p>Other</p> <p>CALLETANO SIERRA</p> <p>Other</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>---</p> <p>Not reported</p> <p>N</p> <p>Not reported</p> <p>No</p> <p>Not reported</p> <p>Not on the Baseline</p> <p>Not on the Baseline</p> <p>Not reported</p> |
|---|--|

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DELTAS AUTO SERVICE (Continued)

1024862097

| | |
|---|-----------------------|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-07 19:36:35.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|--------------------------------|---------------------|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CALLETANO SIERRA |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 6750 BRENTWOOD BLVD |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-634-1651 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|--------------------------------|---------------------|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CALLETANO SIERRA |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 6750 BRENTWOOD BLVD |
| Owner/Operator City,State,Zip: | BRENTWOOD, CA 94513 |
| Owner/Operator Telephone: | 925-634-1651 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DELTAS AUTO SERVICE (Continued)

1024862097

Historic Generators:

| | |
|--|---------------------------|
| Receive Date: | 2017-09-12 00:00:00.0 |
| Handler Name: | DELTAS AUTO SERVICE |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|--------------------|---------------------------|
| NAICS Code: | 811111 |
| NAICS Description: | GENERAL AUTOMOTIVE REPAIR |

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

H37
WSW
1/8-1/4
0.240 mi.
1265 ft.

JOES AUTOMOTIVE
6750 BRENTWOOD BLVD
BRENTWOOD, CA 94513

RCRA NonGen / NLR **1024867559**
CAL000436154

Site 5 of 5 in cluster H

Relative:
Higher
Actual:
72 ft.

RCRA Listings:

| | |
|--------------------------------------|----------------------------|
| Date Form Received by Agency: | 2018-05-16 00:00:00.0 |
| Handler Name: | JOES AUTOMOTIVE |
| Handler Address: | 6750 BRENTWOOD BLVD |
| Handler City,State,Zip: | BRENTWOOD, CA 94513 |
| EPA ID: | CAL000436154 |
| Contact Name: | JOSE CASILLAS |
| Contact Address: | 990 ALMOND DR |
| Contact City,State,Zip: | OAKLEY, CA 94561 |
| Contact Telephone: | 925-306-2470 |
| Contact Fax: | Not reported |
| Contact Email: | JOSECASILLAS50@HOTMAIL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 990 ALMOND DR |
| Mailing City,State,Zip: | OAKLEY, CA 94561 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

JOES AUTOMOTIVE (Continued)

1024867559

| | |
|--|-----------------------|
| Owner Name: | JOSE CASILLAS |
| Owner Type: | Other |
| Operator Name: | JOSE CASILLAS |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-07 19:38:12.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOES AUTOMOTIVE (Continued)

1024867559

Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: JOSE CASILLAS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 990 ALMOND DR
Owner/Operator City,State,Zip: OAKLEY, CA 94561
Owner/Operator Telephone: 925-306-2470
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: JOSE CASILLAS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 990 ALMOND DR
Owner/Operator City,State,Zip: OAKLEY, CA 94561
Owner/Operator Telephone: 925-306-2470
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2018-05-16 00:00:00.0
Handler Name: JOES AUTOMOTIVE
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violation:

No Violations Found:

Evaluation Action Summary:

No Evaluations Found:

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

I38
SSW
1/8-1/4
0.245 mi.
1291 ft.

CITY OF BRENTWOOD PUBLIC WORKS WELL #6
2000 HOMECOMING WY
BRENTWOOD, CA 94513

CONTRA COSTA CO. SITE LIST
CERS

EMI S107620521
N/A

Site 1 of 2 in cluster I

Relative:
Higher
Actual:
55 ft.

EMI:
 Name: CITY OF BRENTWOOD
 Address: 2000 HOMECOMING WAY
 City,State,Zip: BRENTWOOD, CA 94513
 Year: 2004
 County Code: 7
 Air Basin: SF
 Facility ID: 14755
 Air District Name: BA
 SIC Code: 9199
 Air District Name: BAY AREA AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0.002
 Reactive Organic Gases Tons/Yr: 0.0016734
 Carbon Monoxide Emissions Tons/Yr: 0.005
 NOX - Oxides of Nitrogen Tons/Yr: 0.023
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0.002
 Part. Matter 10 Micrometers and Smllr Tons/Yr:0.001952

Name: CITY OF BRENTWOOD
 Address: 2000 HOMECOMING WAY
 City,State,Zip: BRENTWOOD, CA 94513
 Year: 2005
 County Code: 7
 Air Basin: SF
 Facility ID: 14755
 Air District Name: BA
 SIC Code: 9199
 Air District Name: BAY AREA AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: .002
 Reactive Organic Gases Tons/Yr: .0016734
 Carbon Monoxide Emissions Tons/Yr: .005
 NOX - Oxides of Nitrogen Tons/Yr: .023
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: .002
 Part. Matter 10 Micrometers and Smllr Tons/Yr:.001952

Name: CITY OF BRENTWOOD
 Address: 2000 HOMECOMING WAY
 City,State,Zip: BRENTWOOD, CA 94513
 Year: 2006
 County Code: 7
 Air Basin: SF
 Facility ID: 14755
 Air District Name: BA
 SIC Code: 9199
 Air District Name: BAY AREA AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD PUBLIC WORKS WELL #6 (Continued)

S107620521

Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: .001
NOX - Oxides of Nitrogen Tons/Yr: .004
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2007
County Code: 7
Air Basin: SF
Facility ID: 14755
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: .001
NOX - Oxides of Nitrogen Tons/Yr: .004
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2008
County Code: 7
Air Basin: SF
Facility ID: 14755
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: .001
Reactive Organic Gases Tons/Yr: .0008367
Carbon Monoxide Emissions Tons/Yr: .012
NOX - Oxides of Nitrogen Tons/Yr: .01
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .001
Part. Matter 10 Micrometers and Smlr Tons/Yr:.000976

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2009
County Code: 7
Air Basin: SF
Facility ID: 14755
Air District Name: BA
SIC Code: 9199

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD PUBLIC WORKS WELL #6 (Continued)

S107620521

Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.001
Reactive Organic Gases Tons/Yr: 8.3670000000000001E-4
Carbon Monoxide Emissions Tons/Yr: 0.012
NOX - Oxides of Nitrogen Tons/Yr: 0.01
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.001
Part. Matter 10 Micrometers and Smlr Tons/Yr:9.7599999999999998E-4

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2010
County Code: 7
Air Basin: SF
Facility ID: 14755
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 3.0000000000000001E-3
NOX - Oxides of Nitrogen Tons/Yr: 3.0000000000000001E-3
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2011
County Code: 7
Air Basin: SF
Facility ID: 14755
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.003
NOX - Oxides of Nitrogen Tons/Yr: 0.003
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2014
County Code: 7
Air Basin: SF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD PUBLIC WORKS WELL #6 (Continued)

S107620521

Facility ID: 14755
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.004978082
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0.041104256
NOX - Oxides of Nitrogen Tons/Yr: 0.033395438
SOX - Oxides of Sulphur Tons/Yr: 3.4691e-005
Particulate Matter Tons/Yr: 0.002020313
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.001939501

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2015
County Code: 7
Air Basin: SF
Facility ID: 14755
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.004978082
Reactive Organic Gases Tons/Yr: 0.004835796
Carbon Monoxide Emissions Tons/Yr: 0.04110426
NOX - Oxides of Nitrogen Tons/Yr: 0.03339544
SOX - Oxides of Sulphur Tons/Yr: 3.4691e-005
Particulate Matter Tons/Yr: 0.002020313
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.001939501

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Year: 2016
County Code: 7
Air Basin: SF
Facility ID: 14755
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.004978082
Reactive Organic Gases Tons/Yr: 0.004373245037
Carbon Monoxide Emissions Tons/Yr: 0.041104256
NOX - Oxides of Nitrogen Tons/Yr: 0.033395438
SOX - Oxides of Sulphur Tons/Yr: 3.4691e-005
Particulate Matter Tons/Yr: 0.002020313
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.001939501

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF BRENTWOOD PUBLIC WORKS WELL #6 (Continued)

S107620521

Year: 2018
County Code: 7
Air Basin: SF
Facility ID: 14755
Air District Name: BA
SIC Code: 9199
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.000213777
Reactive Organic Gases Tons/Yr: 0.0001878030945
Carbon Monoxide Emissions Tons/Yr: 0.00177973
NOX - Oxides of Nitrogen Tons/Yr: 0.001444722
SOX - Oxides of Sulphur Tons/Yr: 1.149e-006
Particulate Matter Tons/Yr: 8.0887323944e-005
Part. Matter 10 Micrometers and Smlr Tons/Yr: 8.0402e-005

CONTRA COSTA CO. SITE LIST:

Name: CITY OF BRENTWOOD PUBLIC WORKS WELL #6
Address: 2000 HOMECOMING WY
City: BRENTWOOD
Facility ID: FA0028340
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: CALARP RMP
Region: CONTRA COSTA
Cupa Number: 771584

Name: CITY OF BRENTWOOD PUBLIC WORKS WELL #6
Address: 2000 HOMECOMING WY
City: BRENTWOOD
Facility ID: FA0028340
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HWG GENERAL
Region: CONTRA COSTA
Cupa Number: 771584

Name: CITY OF BRENTWOOD PUBLIC WORKS WELL #6
Address: 2000 HOMECOMING WY
City: BRENTWOOD
Facility ID: FA0028340
Billing Status: ACTIVE, BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP: >10K-100K LBS, 0-19 EMPLOYEES
Region: CONTRA COSTA
Cupa Number: 771584

CERS:

Name: CITY OF BRENTWOOD
Address: 2000 HOMECOMING WAY
City,State,Zip: BRENTWOOD, CA 94513
Site ID: 459860
CERS ID: 110037977142
CERS Description: US EPA Air Emission Inventory System (EIS)

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

139
SSW
1/8-1/4
0.245 mi.
1291 ft.

CITY OF BRENTWOOD PW WELL #6
2000 HOMECOMING WY
BRENTWOOD, CA 94513

CONTRA COSTA CO. SITE LIST

S105850321
N/A

Site 2 of 2 in cluster I

Relative:
Higher
Actual:
55 ft.

CONTRA COSTA CO. SITE LIST:
Name: CITY OF BRENTWOOD PW WELL #6
Address: 2000 HOMECOMING WY
City: BRENTWOOD
Facility ID: FA0029909
Billing Status: INACTIVE, NON-BILLABLE
Program Status: CONTRA COSTA CO. SITE LIST
Program/Elements: HMBP GENERAL
Region: CONTRA COSTA
Cupa Number: 773239

40
East
1/4-1/2
0.270 mi.
1427 ft.

BRENTWOOD WWTP
2251 ELKINS WAY
BRENTWOOD, CA 94513

CHMIRS **S100926012**
Cortese **N/A**
ENF
NPDES
CIWQS

Relative:
Higher
Actual:
52 ft.

CHMIRS:
Name: Not reported
Address: 325 SUNSET RD
City,State,Zip: BRENTWOOD, CA
OES Incident Number: 3-4758
OES notification: 09/14/2003
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: Yes
Waterway: Marsh creek
Spill Site: Not reported
Cleanup By: Reporting Party

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|---|--|
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 2003 |
| Agency: | City of Brentwood |
| Incident Date: | 9/14/2003 12:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Treatment/Sewage Facility |
| E Date: | Not reported |
| Substance: | Treated Effluent |
| Gallons: | 1000 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | Per caller, a power outage caused the release. |
| Name: | Not reported |
| Address: | 325 SUNSET RD |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| OES Incident Number: | 9-2801 |
| OES notification: | 07/02/1999 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| Date Completed: | Not reported |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------|---|
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | Yes |
| Waterway: | Marsh Creek |
| Spill Site: | Not reported |
| Cleanup By: | Reporting Party |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1999 |
| Agency: | City of Brentwood |
| Incident Date: | 7/1/199912:00:00 AM |
| Admin Agency: | Contra Costa County Health Services Dept. |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Treatment/Sewage Facility |
| E Date: | Not reported |
| Substance: | wastewater |
| Gallons: | 10 |
| Unknown: | 0 |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | 0 |
| Number of Injuries: | 0 |
| Number of Fatalities: | 0 |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | The colapse of a Contra Costsa County flood control dist drain line and went into a disposal perculation pond, a sink hole formed and effluent from pond went into the sink hole and to Marsh Creek. Waste water goes this route anyway, except controlled. |

CORTESE:

| | |
|-----------------|---------------------|
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | CORTESE |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------|--|
| Envirostor Id: | Not reported |
| Global ID: | Not reported |
| Site/Facility Type: | Not reported |
| Cleanup Status: | Not reported |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | CORTESE |
| Order No: | R5-2008-0006 |
| Waste Discharge System No: | Not reported |
| Effective Date: | 03/15/2008 |
| Region 2: | 5S |
| WID Id: | 5B070101001 |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Cease Desist Orders & Cleanup Abatement Orders |

ENF:

| | |
|--------------------------|--|
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | N - POTW does not have EPA approved pretreatment prog. |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Program: NPDMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 392726
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2013-0106
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 04/19/2019
Effective Date: 09/14/2013
Expiration/Review Date: 09/01/2018
Termination Date: 05/31/2019
WDR Review - Amend: 4/17/2015
WDR Review - Revise/Renew: 7/26/2013
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 425454
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 09/25/2018
Adoption/Issuance Date: 09/25/2018
Achieve Date: Not reported
Termination Date: 09/25/2018
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 09/25/2018 for Brentwood City
Description: Not reported
Program: NPDMUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 392726
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2013-0106
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 04/19/2019
Effective Date: 09/14/2013
Expiration/Review Date: 09/01/2018
Termination Date: 05/31/2019
WDR Review - Amend: 4/17/2015
WDR Review - Revise/Renew: 7/26/2013
WDR Review - Rescind: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|-----------------------------------|
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 420870 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 04/12/2018 |
| Adoption/Issuance Date: | 04/12/2018 |
| Achieve Date: | Not reported |
| Termination Date: | 04/12/2018 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 04/12/2018 for Brentwood City |
| Description: | Not reported |
| Program: | NPDMUNILRG |
| 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 |
| | |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|--|
| Source Of Facility: | Reg Meas |
| Design Flow: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | N - POTW does not have EPA approved pretreatment prog. |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 392726 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2013-0106 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/19/2019 |
| Effective Date: | 09/14/2013 |
| Expiration/Review Date: | 09/01/2018 |
| Termination Date: | 05/31/2019 |
| WDR Review - Amend: | 4/17/2015 |
| WDR Review - Revise/Renew: | 7/26/2013 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 407240 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 06/24/2016 |
| Adoption/Issuance Date: | 06/24/2016 |
| Achieve Date: | Not reported |
| Termination Date: | 06/24/2016 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 06/24/2016 for Brentwood City |
| Description: | Not reported |
| Program: | NPDMUNILRG |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|---------------------------------|--|
| Initial Assessed Amount: | 0 |
| Liability \$ Amount: | 0 |
| Project \$ Amount: | 0 |
| Liability \$ Paid: | 0 |
| Project \$ Completed: | 0 |
| Total \$ Paid/Completed Amount: | 0 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | N - POTW does not have EPA approved pretreatment prog. |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 392726 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2013-0106 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|-----------------------------------|
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/19/2019 |
| Effective Date: | 09/14/2013 |
| Expiration/Review Date: | 09/01/2018 |
| Termination Date: | 05/31/2019 |
| WDR Review - Amend: | 4/17/2015 |
| WDR Review - Revise/Renew: | 7/26/2013 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 400845 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 04/27/2015 |
| Adoption/Issuance Date: | 04/27/2015 |
| Achieve Date: | Not reported |
| Termination Date: | 04/27/2015 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 04/27/2015 for Brentwood City |
| Description: | Not reported |
| Program: | NPDMUNILRG |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | N - POTW does not have EPA approved pretreatment prog. |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 392726 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2013-0106 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/19/2019 |
| Effective Date: | 09/14/2013 |
| Expiration/Review Date: | 09/01/2018 |
| Termination Date: | 05/31/2019 |
| WDR Review - Amend: | 4/17/2015 |
| WDR Review - Revise/Renew: | 7/26/2013 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 398007 |
| Region: | Not reported |
| Order / Resolution Number: | R5-2014-0549 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 10/02/2014 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 10/03/2014 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| ACL Issuance Date: | 09/08/2014 |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | ACL R5-2014-0549 for Brentwood City |
| Description: | ACL Complaint R5-2014-0549 issued in the amount of \$12,000 for effluent violations that occurred during the period from 1 May 2013 through 31 March 2014. There are 4 Group II serious violations subject to MMPs. |
| Program: | NPDMUNILRG |
| Latest Milestone Completion Date: | 10/3/2014 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 12000 |
| Initial Assessed Amount: | 12000 |
| Liability \$ Amount: | 12000 |
| Project \$ Amount: | 0 |
| Liability \$ Paid: | 12000 |
| Project \$ Completed: | 0 |
| Total \$ Paid/Completed Amount: | 12000 |
| | |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | N - POTW does not have EPA approved pretreatment prog. |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 392726
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2013-0106
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 04/19/2019
Effective Date: 09/14/2013
Expiration/Review Date: 09/01/2018
Termination Date: 05/31/2019
WDR Review - Amend: 4/17/2015
WDR Review - Revise/Renew: 7/26/2013
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 396340
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 05/14/2014
Adoption/Issuance Date: 05/14/2014
Achieve Date: Not reported
Termination Date: 05/14/2014
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 05/14/2014 for Brentwood City
Description: Not reported
Program: NPDmunilrg
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: N - POTW does not have EPA approved pretreatment prog.
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 392726
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2013-0106
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 04/19/2019
Effective Date: 09/14/2013
Expiration/Review Date: 09/01/2018
Termination Date: 05/31/2019
WDR Review - Amend: 4/17/2015
WDR Review - Revise/Renew: 7/26/2013
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Status Enrollee: N
Individual/General: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 395191
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 03/04/2014
Adoption/Issuance Date: 03/04/2014
Achieve Date: Not reported
Termination Date: 03/04/2014
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 03/04/2014 for Brentwood City
Description: Not reported
Program: NPDUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDmunilrg
Program Category1: NPDESww
Program Category2: NPDESww
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 393591
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 10/17/2013
Adoption/Issuance Date: 10/17/2013
Achieve Date: Not reported
Termination Date: 10/17/2013
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 10/17/2013 for Brentwood City
Description: Not reported
Program: NPDmunilrg
Latest Milestone Completion Date: Not reported
Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 393143
Region: Not reported
Order / Resolution Number: R5-2013-0567
Enforcement Action Type: Admin Civil Liability
Effective Date: 10/02/2013
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 10/15/2013
ACL Issuance Date: 09/10/2013
EPL Issuance Date: Not reported
Status: Historical
Title: ACL R5-2013-0567 for Brentwood City
Description: MMP Complaint R5-2013-0567 issued in the amount of \$6,000 for effluent violations that occurred between 1 April 2004 and 30 April 2013 (Data reported under Monitoring and Reporting Programs R5-2000-0171, R5-2008-0006, and R5-2008-0006-01). There are 1 Group I and 1 Group II violations subject to MMPs.
Program: NPDMUNILRG
Latest Milestone Completion Date: 10/15/2013
Of Programs1: 1
Total Assessment Amount: 6000
Initial Assessed Amount: 6000
Liability \$ Amount: 6000
Project \$ Amount: 0
Liability \$ Paid: 6000
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 6000
Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 391978 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 07/09/2013 |
| Adoption/Issuance Date: | 07/09/2013 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Achieve Date: Not reported
Termination Date: 07/09/2013
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 07/09/2013 for Brentwood City, WWTP
Description: During the monitoring periods April 2013 and May 2013 the discharge violated the limitations contained in the WDRs.
Program: NPDmunilrg
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
Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDmunilrg
Program Category1: NPDESww
Program Category2: NPDESww

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 390483
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 05/31/2013
Adoption/Issuance Date: 05/31/2013
Achieve Date: Not reported
Termination Date: 05/31/2013
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 05/31/2013 for Brentwood City, WWTP
Description: During the monitoring periods February 2013, March 2013, and First Quarter 2013 the discharge violated the limitations contained in the WDRs.

Program: NPDmunilrg
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | N |
| Individual/General: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 390006 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 05/02/2012 |
| Adoption/Issuance Date: | 05/02/2012 |
| Achieve Date: | Not reported |
| Termination Date: | 05/02/2012 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 05/02/2012 for Brentwood City, WWTP |
| Description: | During the monitoring periods November 2011, December 2011, Fourth Quarter 2011, Annual 2011, January 2012, and February 2012 the discharge violated the limitations contained in the WDRs. |
| Program: | NPDMUNILRG |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|---|
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 389638 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 03/18/2013 |
| Adoption/Issuance Date: | 03/18/2013 |
| Achieve Date: | Not reported |
| Termination Date: | 03/18/2013 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 03/18/2013 for Brentwood City, WWTP |
| Description: | During the monitoring periods December 2012, Fourth Quarter 2012, Annual 2012, and January 2013 the discharge violated the limitations contained in the WDRs. |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|--|
| Program: | NPDMUNILRG |
| 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 |
| | |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 389142
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 02/13/2013
Adoption/Issuance Date: 02/13/2013
Achieve Date: Not reported
Termination Date: 02/13/2013
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 02/13/2013 for Brentwood City WWTP
Description: Central Valley Water Board staff conducted an inspection of the Brentwood Wastewater Treatment Plant on 19 December 2012 to determine compliance with WDRs and TSO. One violation of the WDRs was observed.

Program: NPDMMUNILRG
Latest Milestone Completion Date: Not reported
Of Programs: 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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 389025

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 02/06/2013
Adoption/Issuance Date: 02/06/2013
Achieve Date: Not reported
Termination Date: 02/06/2013
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 02/06/2013 for Brentwood City, WWTP
Description: During the monitoring period November 2012 the discharge violated the limitations contained in the WDRs.

Program: NPDMUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 388736 |
| Region: | Not reported |
| Order / Resolution Number: | R5-2012-0114 |
| Enforcement Action Type: | Time Schedule Order |
| Effective Date: | 12/07/2012 |
| Adoption/Issuance Date: | 12/07/2012 |
| Achieve Date: | Not reported |
| Termination Date: | 07/25/2013 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | TSO R5-2012-0114 for Brentwood City, Brentwood WWTP |
| Description: | TSO issued for Discharger to comply with the final effluent limitations for temperature |
| Program: | NPDMUNILRG |
| 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 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 388461 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 12/12/2012 |
| Adoption/Issuance Date: | 12/12/2012 |
| Achieve Date: | Not reported |
| Termination Date: | 12/12/2012 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 12/12/2012 for Brentwood City, WWTP |
| Description: | During the monitoring periods August 2012, September 2012, and October 2012 the discharge violated the limitations contained in the WDRs. |
| Program: | NPDMUNILRG |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| NAICS Code 2: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|---|
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 387786 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 10/15/2012 |
| Adoption/Issuance Date: | 10/15/2012 |
| Achieve Date: | Not reported |
| Termination Date: | 10/15/2012 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 10/15/2012 for Brentwood City, WWTP |
| Description: | During the monitoring periods June 2012, Second Quarter |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

2012 and July 2012 the discharge violated the limitations contained in the WDRs.

| | |
|-----------------------------------|--------------|
| Program: | NPDMUNILRG |
| 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 |

| | |
|--------------------------|--|
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 386839
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 08/03/2012
Adoption/Issuance Date: 08/03/2012
Achieve Date: Not reported
Termination Date: 08/03/2012
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 08/03/2012 for Brentwood City, WWTP
Description: Not reported
Program: NPDMUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 379128 |
| Region: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 05/12/2011
Adoption/Issuance Date: 05/12/2011
Achieve Date: Not reported
Termination Date: 05/12/2011
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 05/12/2011 for Brentwood City WWTP
Description: Upon inspection of the facility, a violation of the standard provisions of the WDRs was discovered.
Program: NPDmunilrg
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Facility Waste Type 4: Not reported
Program: NPDUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 378733
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 04/19/2011
Adoption/Issuance Date: 04/19/2011
Achieve Date: Not reported
Termination Date: 04/19/2011
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 04/19/2011 for Brentwood City, WWTP
Description: Not reported
Program: NPDUNILRG
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

Name: BRENTWOOD WWTP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
WDR Review - Revise/Renew: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 378169
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 03/15/2011
Adoption/Issuance Date: 03/15/2011
Achieve Date: Not reported
Termination Date: 03/15/2011
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 03/15/2011 for Brentwood City, WWTP
Description: During the monitoring period January 2011 the discharge violated the limitations contained in the WDRs.
Program: NPDmunilrg
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
Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 377791 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 02/23/2011 |
| Adoption/Issuance Date: | 02/23/2011 |
| Achieve Date: | Not reported |
| Termination Date: | 02/23/2011 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 02/23/2011 for Brentwood City, WWTP |
| Description: | During the monitoring periods December 2010, Fourth Quarter 2010, and Annual 2010 the discharge violated the effluent limitations contained in the WDRs. |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|--|
| Program: | NPDMUNILRG |
| 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 |
| | |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 377336
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 01/21/2011
Adoption/Issuance Date: 01/21/2011
Achieve Date: Not reported
Termination Date: 01/21/2011
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 01/21/2011 for Brentwood City, WWTP
Description: During the monitoring period November 2010 the discharge caused violations of the Receiving Water limitations for temperature set forth in the WDRs.

Program: NPDMUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 377055
Region: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 12/23/2010
Adoption/Issuance Date: 12/23/2010
Achieve Date: Not reported
Termination Date: 12/23/2010
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 12/23/2010 for Brentwood City WWTP
Description: During the monitoring period October 2010 the discharge caused violations of the Receiving Water limitations for temperature set forth in the WDRs.

Program: NPDMUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 376805 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 12/01/2010 |
| Adoption/Issuance Date: | 12/01/2010 |
| Achieve Date: | Not reported |
| Termination Date: | 12/01/2010 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 12/01/2010 for Brentwood City WWTP |
| Description: | During the monitoring period September 2010 the discharge violated the Receiving Water limitations for temperature set forth in WDRs. September 2010 SMR does not fully comply with the MRP requirements. |
| Program: | NPDMUNILRG |
| 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 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 375533
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 08/10/2010
Adoption/Issuance Date: 08/10/2010
Achieve Date: Not reported
Termination Date: 08/10/2010
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 08/10/2010 for Brentwood City WWTP
Description: June 2010 SMR does not fully comply with the MRP requirements.
Program: NPDMUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 374801 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 05/13/2010 |
| Adoption/Issuance Date: | 05/13/2010 |
| Achieve Date: | Not reported |
| Termination Date: | 05/13/2010 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Title: NOV 05/13/2010 for Brentwood City WWTP
Description: March 2010 SMR does not fully comply with the MRP requirements.
Program: NPDMUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 5
Threat To Water Quality: 2
Complexity: B
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 344253
Reg Measure Type: NPDES Permits
Region: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Order #: R5-2008-0006-01
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: 1 - Producer
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 374768
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 06/15/2010
Adoption/Issuance Date: 06/15/2010
Achieve Date: Not reported
Termination Date: 06/15/2010
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 06/15/2010 for Brentwood City
Description: During April 2010 the discharge violated the Land Discharge limitations and the Receiving Water limitations set forth in WDRs Order R5-2008-0006.

Program: NPDmunilrg
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|--|
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 372604 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 10/23/2009 |
| Adoption/Issuance Date: | 10/23/2009 |
| Achieve Date: | Not reported |
| Termination Date: | 10/23/2009 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 10/23/2009 for Brentwood City |
| Description: | Not reported |
| Program: | NPDMUNILRG |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 09/12/2013 |
| Effective Date: | 03/15/2008 |
| Expiration/Review Date: | 12/31/2012 |
| Termination Date: | 09/13/2013 |
| WDR Review - Amend: | 12/7/2012 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 367492 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 05/20/2009 |
| Adoption/Issuance Date: | 05/20/2009 |
| Achieve Date: | Not reported |
| Termination Date: | 05/20/2009 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 05/20/2009 for Brentwood City, Brentwood WWTP |
| Description: | The Mercury Source Reduction Program Annual Progress Report was due on 1 December 2008 but was submitted on 30 March 2009 119 days late, The Treatment Feasibility Study was due on 15 December 2008 but was submitted on 16 April 2009 122 days late, 14 October 2008 Discharger exceeded the chloride interim maximum daily effluent limit. |
| Program: | NPDMUNILRG |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|---------------------------------|--|
| Liability \$ Amount: | 0 |
| Project \$ Amount: | 0 |
| Liability \$ Paid: | 0 |
| Project \$ Completed: | 0 |
| Total \$ Paid/Completed Amount: | 0 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 5 |
| Threat To Water Quality: | 2 |
| Complexity: | B |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 344253 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2008-0006-01 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | 1 - Producer |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Status: Historical
Status Date: 09/12/2013
Effective Date: 03/15/2008
Expiration/Review Date: 12/31/2012
Termination Date: 09/13/2013
WDR Review - Amend: 12/7/2012
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 344254
Region: Not reported
Order / Resolution Number: R5-2008-0007
Enforcement Action Type: Cease and Desist Order
Effective Date: 01/25/2008
Adoption/Issuance Date: 01/25/2008
Achieve Date: Not reported
Termination Date: 12/06/2012
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: CDO R5-2008-0007 for Brentwood City
Description: This Order provides time schedules for the Discharger to develop, submit, and implement methods of compliance, including utilizing pollution prevention activities or construct necessary treatment facilities to meet these new effluent limitations.

Program: NPDmunilrg
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 4.5 |
| Threat To Water Quality: | 1 |
| Complexity: | A |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 147735 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2000-0171 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/22/2008 |
| Effective Date: | 06/16/2000 |
| Expiration/Review Date: | 06/01/2005 |
| Termination Date: | 01/24/2008 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 245702 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 12/02/2002 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Adoption/Issuance Date: Not reported
 Achieve Date: Not reported
 Termination Date: 12/02/2002
 ACL Issuance Date: Not reported
 EPL Issuance Date: Not reported
 Status: Historical
 Title: OC 12/02/2002 for Brentwood WWTP
 Description: Phone discussion on 12/02/02 with David Stoops concerning some missing information in the report and additional clarification.
 Program: NPDMUNILRG
 Latest Milestone Completion Date: 1/23/2003
 # 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

Name: BRENTWOOD WWTP
 Address: 2251 ELKINS WAY
 City,State,Zip: BRENTWOOD, CA 94513
 Region: Not reported
 Facility Id: 210322
 Agency Name: Brentwood City
 Place Type: Utility
 Place Subtype: Wastewater Treatment Facility
 Facility Type: Municipal/Domestic
 Agency Type: City Agency
 # Of Agencies: 1
 Place Latitude: 37.95792
 Place Longitude: -121.68634
 SIC Code 1: 4952
 SIC Desc 1: Sewerage Systems
 SIC Code 2: Not reported
 SIC Desc 2: Not reported
 SIC Code 3: Not reported
 SIC Desc 3: Not reported
 NAICS Code 1: 22132
 NAICS Desc 1: Sewage Treatment Facilities
 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: 4.5
 Threat To Water Quality: 1
 Complexity: A
 Pretreatment: Y - POTW has EPA approved pretreatment program
 Facility Waste Type: Domestic wastewater
 Facility Waste Type 2: Not reported
 Facility Waste Type 3: Not reported
 Facility Waste Type 4: Not reported
 Program: NPDMUNILRG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 147735
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2000-0171
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 04/22/2008
Effective Date: 06/16/2000
Expiration/Review Date: 06/01/2005
Termination Date: 01/24/2008
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 238734
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Oral Communication
Effective Date: 12/19/2001
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 12/19/2001
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: Enforcement - 5B070101001
Description: Verbal communication with plant supeintendent, Joe Majarucon on 12/19/01.
Program: NPDMMUNILRG
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
Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 4.5
Threat To Water Quality: 1
Complexity: A
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 147735
Reg Measure Type: NPDES Permits
Region: Not reported
Order #: R5-2000-0171
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 04/22/2008
Effective Date: 06/16/2000
Expiration/Review Date: 06/01/2005
Termination Date: 01/24/2008
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported
Status Enrollee: N
Individual/General: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 237998
Region: Not reported
Order / Resolution Number: R5-2001-0523
Enforcement Action Type: Admin Civil Liability
Effective Date: 07/26/2001
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: Not reported
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Withdrawn
Title: MMPC R5-2001-0523 for Brentwood City
Description: MMP Complaint for \$243,000 for Mandatory minimum penalty for violations of effluent limits in Order No. 5-00-171. Dissolved oxygen minimum concentration limitation was violated 84 times between 1 Jan. 2000 and 31 March 2001.

Program: NPDMUNILRG
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
NAICS Code 2: Not reported
NAICS Desc 2: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Reg Meas |
| Design Flow: | 4.5 |
| Threat To Water Quality: | 1 |
| Complexity: | A |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 147735 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2000-0171 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/22/2008 |
| Effective Date: | 06/16/2000 |
| Expiration/Review Date: | 06/01/2005 |
| Termination Date: | 01/24/2008 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 237997 |
| Region: | Not reported |
| Order / Resolution Number: | R5-2001-0186 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 07/26/2001 |
| 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: | MMP Order R5-2001-0186 for Brentwood City |
| Description: | MMP Order issued requiring payment of \$243,000 by 3 Dec 2001for Mandatory minimum penalty for violations of |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

effluent limits in Order No. 5-00-171. DO minimum concentration limitation was violated 84 times between 1 Jan. 2000 and 31 March 2001.

Program: NPDESWW
Latest Milestone Completion Date: 12/20/2004
Of Programs1: 1
Total Assessment Amount: 243000
Initial Assessed Amount: 0
Liability \$ Amount: 243000
Project \$ Amount: 0
Liability \$ Paid: 243000
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 243000

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 4.5
Threat To Water Quality: 1
Complexity: A
Pretreatment: Y - POTW has EPA approved pretreatment program
Facility Waste Type: Domestic wastewater
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDMUNILRG
Program Category1: NPDESWW
Program Category2: NPDESWW
Of Programs: 1
WDID: 5B070101001
Reg Measure Id: 147735
Reg Measure Type: NPDES Permits
Region: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Order #: R5-2000-0171
Npdes# CA#: CA0082660
Major-Minor: Major
Npdes Type: MUN
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 04/22/2008
Effective Date: 06/16/2000
Expiration/Review Date: 06/01/2005
Termination Date: 01/24/2008
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 235035
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Oral Communication
Effective Date: 03/27/2001
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 03/27/2001
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: OC 03/27/2001 for Brentwood WWTP
Description: Phone discussion on 03/27/01 with Carl Gaston Do violations
- Cleaning the filters, closeattention to maintenance
Report deficiency violation - will come of by next reports

Program: NPDmunilrg
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|--|
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 4.5 |
| Threat To Water Quality: | 1 |
| Complexity: | A |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 147735 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2000-0171 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/22/2008 |
| Effective Date: | 06/16/2000 |
| Expiration/Review Date: | 06/01/2005 |
| Termination Date: | 01/24/2008 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Direction/Voice: Passive
Enforcement Id(EID): 231967
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Oral Communication
Effective Date: 03/06/2001
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 03/06/2001
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: OC 03/06/2001 for Brentwood WWTP
Description: Phone Discussion with Carl Gaston (Waste Water Supervisor) on 3/6/2001 regarding these violations: RW violations, DO effluent violations, need for effluent flow meter, influent pond settleable solids limit, need to add Cert stmt in monthly reports.
Program: NPDmunilrg
Latest Milestone Completion Date: Not reported
Of Programs: 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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Brentwood City
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: City Agency
Of Agencies: 1
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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: 4.5

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| Threat To Water Quality: | 1 |
| Complexity: | A |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 147735 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2000-0171 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |
| Status: | Historical |
| Status Date: | 04/22/2008 |
| Effective Date: | 06/16/2000 |
| Expiration/Review Date: | 06/01/2005 |
| Termination Date: | 01/24/2008 |
| 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: | I |
| Fee Code: | 66 - NPDES Based on Flow |
| Direction/Voice: | Passive |
| Enforcement Id(EID): | 231640 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Notice of Violation |
| Effective Date: | 10/07/1999 |
| Adoption/Issuance Date: | 10/07/1999 |
| Achieve Date: | Not reported |
| Termination Date: | 10/07/1999 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | NOV 10/07/1999 for Brentwood City, Brentwood WWTP |
| Description: | A Notice of Violation for BOD violations issued by RWQCB 7 October 1999. |
| Program: | NPDMUNILRG |
| Latest Milestone Completion Date: | Not reported |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|---------------------------------|--|
| Liability \$ Amount: | 0 |
| Project \$ Amount: | 0 |
| Liability \$ Paid: | 0 |
| Project \$ Completed: | 0 |
| Total \$ Paid/Completed Amount: | 0 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Brentwood City |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | City Agency |
| # Of Agencies: | 1 |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | 4.5 |
| Threat To Water Quality: | 1 |
| Complexity: | A |
| Pretreatment: | Y - POTW has EPA approved pretreatment program |
| Facility Waste Type: | Domestic wastewater |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | NPDMUNILRG |
| Program Category1: | NPDESWW |
| Program Category2: | NPDESWW |
| # Of Programs: | 1 |
| WDID: | 5B070101001 |
| Reg Measure Id: | 147735 |
| Reg Measure Type: | NPDES Permits |
| Region: | Not reported |
| Order #: | R5-2000-0171 |
| Npdes# CA#: | CA0082660 |
| Major-Minor: | Major |
| Npdes Type: | MUN |
| Reclamation: | N - No |
| Dredge Fill Fee: | Not reported |
| 301H: | N |
| Application Fee Amt Received: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Status: Historical
Status Date: 04/22/2008
Effective Date: 06/16/2000
Expiration/Review Date: 06/01/2005
Termination Date: 01/24/2008
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: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 231355
Region: Not reported
Order / Resolution Number: Not reported
Enforcement Action Type: Oral Communication
Effective Date: 06/09/2000
Adoption/Issuance Date: Not reported
Achieve Date: 6/20/2000
Termination Date: 06/09/2000
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: OC 06/09/2000 for Brentwood WWTP
Description: Discharger aware of situation and continuing corrective actions to rectify coliform contamination which resulted from a collapsed drain pipe in the Fall of 1999.

Program: NPDMMUNILRG
Latest Milestone Completion Date: 6/20/2000
Of Programs: 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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Not reported
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: Not reported
Of Agencies: Not reported
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|-----------------------------|
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | NPDESWW |
| # 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): | 256746 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 02/24/2003 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Termination Date: 02/24/2003
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: OC 02/24/2003 for Brentwood WWTP
Description: Phone discussion on 2/24/03 with David Stoops concerning the flow exceedance to disposal ponds and receiving water violations of temperature, groundwater violation on TC, and additional clarification on turbidity readings on 12/10 and 12/16 (spikes)
Program: NPDESWW
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
Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Not reported
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: Not reported
Of Agencies: Not reported
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| Program Category1: | Not reported |
| Program Category2: | NPDESWW |
| # 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): | 252110 |
| Region: | Not reported |
| Order / Resolution Number: | R5-2004-0524 |
| Enforcement Action Type: | Admin Civil Liability |
| Effective Date: | 06/25/2004 |
| 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: | MMPC R5-2004-0524 for Brentwood City, Brentwood WWTP |
| Description: | MMP Complaint issued for: 3 serious violation during 3/1/2001 & 3/31/2004 (TSS); 12 other violation of effluent limitations that were not considered serious (total coliform). However, 3 are exempt from mmps. |
| Program: | NPDESWW |
| Latest Milestone Completion Date: | 8/3/2004 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 36000 |
| Initial Assessed Amount: | 0 |
| Liability \$ Amount: | 36000 |
| Project \$ Amount: | 0 |
| Liability \$ Paid: | 36000 |
| Project \$ Completed: | 0 |
| Total \$ Paid/Completed Amount: | 36000 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-------------------------------|-------------------------------|
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Not reported |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | NPDESWW |
| # 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 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|--|
| 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): | 251755 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 03/15/2004 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 03/15/2004 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | OC 03/15/2004 for Brentwood WWTP |
| Description: | Phone discussion on 3/15/04 with David Stoops concerning the Receiving water temperature violations in the month of January, and discussion on conducting studies for a Site specific temp objective and Basin Plan Amendment. |
| Program: | NPDESWW |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Not reported |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|----------------------------------|
| 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: | NPDESWW |
| # 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): | 251667 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 07/08/2004 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 07/08/2004 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | OC 07/08/2004 for Brentwood WWTP |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|---|--|
| <p>Description:</p> <p>Program:</p> <p>Latest Milestone Completion Date:</p> <p># Of Programs1:</p> <p>Total Assessment Amount:</p> <p>Initial Assessed Amount:</p> <p>Liability \$ Amount:</p> <p>Project \$ Amount:</p> <p>Liability \$ Paid:</p> <p>Project \$ Completed:</p> <p>Total \$ Paid/Completed Amount:</p> <p>Name:</p> <p>Address:</p> <p>City,State,Zip:</p> <p>Region:</p> <p>Facility Id:</p> <p>Agency Name:</p> <p>Place Type:</p> <p>Place Subtype:</p> <p>Facility Type:</p> <p>Agency Type:</p> <p># Of Agencies:</p> <p>Place Latitude:</p> <p>Place Longitude:</p> <p>SIC Code 1:</p> <p>SIC Desc 1:</p> <p>SIC Code 2:</p> <p>SIC Desc 2:</p> <p>SIC Code 3:</p> <p>SIC Desc 3:</p> <p>NAICS Code 1:</p> <p>NAICS Desc 1:</p> <p>NAICS Code 2:</p> <p>NAICS Desc 2:</p> <p>NAICS Code 3:</p> <p>NAICS Desc 3:</p> <p># Of Places:</p> <p>Source Of Facility:</p> <p>Design Flow:</p> <p>Threat To Water Quality:</p> <p>Complexity:</p> <p>Pretreatment:</p> <p>Facility Waste Type:</p> <p>Facility Waste Type 2:</p> <p>Facility Waste Type 3:</p> <p>Facility Waste Type 4:</p> <p>Program:</p> <p>Program Category1:</p> <p>Program Category2:</p> <p># Of Programs:</p> <p>WDID:</p> <p>Reg Measure Id:</p> <p>Reg Measure Type:</p> | <p>Phone discussion on 7/8/04 with David Stoops concerning the Receiving water temperature violation in the month of February, and discussion on GW Total Coliform violation in the month of March.</p> <p>NPDESWW</p> <p>Not reported</p> <p>1</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>0</p> <p>BRENTWOOD WWTP</p> <p>2251 ELKINS WAY</p> <p>BRENTWOOD, CA 94513</p> <p>Not reported</p> <p>210322</p> <p>Not reported</p> <p>Utility</p> <p>Wastewater Treatment Facility</p> <p>Municipal/Domestic</p> <p>Not reported</p> <p>Not reported</p> <p>37.95792</p> <p>-121.68634</p> <p>4952</p> <p>Sewerage Systems</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>22132</p> <p>Sewage Treatment Facilities</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>1</p> <p>Enf Action</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> <p>Not reported</p> |
|---|--|

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| 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): | 251123 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 01/09/2004 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 01/09/2004 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | OC 01/09/2004 for Brentwood WWTP |
| Description: | Phone discussion on 1/9/04 with David Stoops concerning the Receiving water temperature violations in the month of October and November. Suggested possibly to look at other sources upstream that may have an impact in making the RW colder than usual. |
| Program: | NPDESWW |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|-------------------------------|
| Agency Name: | Not reported |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | NPDESWW |
| # 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 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 250807 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 02/10/2004 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 02/10/2004 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | OC 02/10/2004 for Brentwood WWTP |
| Description: | Phone discussion on 2/10/04 with David Stoops concerning the Receiving water temperature violations in the month of December. Has been aware since previous months temp violations. Has submitted RW study. |
| Program: | NPDESWW |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Not reported |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| 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: | NPDESWW |
| # 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): | 250564 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 10/28/2003 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 10/28/2003 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | OC 10/28/2003 for Brentwood WWTP |
| Description: | Phone discussion on 10/28/03 with David Stoops concerning the Settleable solids exceedances on August 4 and 11, 2003. Indicated these violations are subject to MMPs. |
| Program: | NPDESWW |
| Latest Milestone Completion Date: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|---------------------------------|-------------------------------|
| # 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Not reported |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | NPDESWW |
| # 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 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|---|
| 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): | 245972 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 01/24/2003 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 01/24/2003 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | OC 01/24/2003 for Brentwood WWTP |
| Description: | Phone discussion on 1/24/03 with David Stoops concerning some missing information in the report, pond disposal capacity violation, receiving water violations of pH, and temperature, and additional clarification on November's and previous TC violations |
| Program: | NPDESWW |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Not reported |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|-----------------------------|
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | NPDESWW |
| # 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): | 245806 |
| Region: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Order / Resolution Number: Not reported
Enforcement Action Type: Oral Communication
Effective Date: 04/30/2002
Adoption/Issuance Date: Not reported
Achieve Date: Not reported
Termination Date: 04/30/2002
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: Enforcement - 5B070101001
Description: Phone discussion on 4/30/02 with Joe Majarucon concerning some missing information in the report, coliform violations and disposal pond free board violations.

Program: NPDESWW
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

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Region: Not reported
Facility Id: 210322
Agency Name: Not reported
Place Type: Utility
Place Subtype: Wastewater Treatment Facility
Facility Type: Municipal/Domestic
Agency Type: Not reported
Of Agencies: Not reported
Place Latitude: 37.95792
Place Longitude: -121.68634
SIC Code 1: 4952
SIC Desc 1: Sewerage Systems
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: 22132
NAICS Desc 1: Sewage Treatment Facilities
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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|--|
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | NPDESWW |
| # 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): | 245804 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 03/07/2002 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 03/07/2002 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Withdrawn |
| Title: | OC 3/7/2002 for Brentwood City, Brentwood WWTP |
| Description: | Phone discussion on 3/07/02 with Joe Majarucon concerning some missing information in the report, coliform violations and disposal pond ph violations. (Withdrawn) |
| Program: | NPDESWW |
| Latest Milestone Completion Date: | 1/23/2003 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0 |
| Initial Assessed Amount: | 0 |
| Liability \$ Amount: | 0 |
| Project \$ Amount: | 0 |
| Liability \$ Paid: | 0 |
| Project \$ Completed: | 0 |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|---------------------------------|-------------------------------|
| Total \$ Paid/Completed Amount: | 0 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Not reported |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | NPDESWW |
| # 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 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-----------------------------------|--|
| 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): | 244695 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 04/28/2003 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 04/28/2003 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | OC 04/28/2003 for Brentwood WWTP |
| Description: | Phone discussion on 4/28/03 with David Stoops concerning the flow exceedance to disposal ponds on 1/1 and receiving water violation of temperature on 2/6. |
| Program: | NPDESWW |
| 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 |
| Name: | BRENTWOOD WWTP |
| Address: | 2251 ELKINS WAY |
| City,State,Zip: | BRENTWOOD, CA 94513 |
| Region: | Not reported |
| Facility Id: | 210322 |
| Agency Name: | Not reported |
| Place Type: | Utility |
| Place Subtype: | Wastewater Treatment Facility |
| Facility Type: | Municipal/Domestic |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 37.95792 |
| Place Longitude: | -121.68634 |
| SIC Code 1: | 4952 |
| SIC Desc 1: | Sewerage Systems |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | 22132 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|----------------------------------|-----------------------------|
| NAICS Desc 1: | Sewage Treatment Facilities |
| 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: | NPDESWW |
| # 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): | 244546 |
| Region: | Not reported |
| Order / Resolution Number: | Not reported |
| Enforcement Action Type: | Oral Communication |
| Effective Date: | 05/07/2003 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 05/07/2003 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Title: OC 05/07/2003 for Brentwood WWTP
Description: Phone discussion on 5/7/03 with David Stoops concerning the groundwater TC exceedances on March 17, 2003 based on samples from well 1 and 2.
Program: NPDESWW
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

NPDES:

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Facility Status: Historical
NPDES Number: CA0082660
Region: 5S
Agency Number: 148431
Regulatory Measure ID: 392726
Place ID: 210322
Order Number: R5-2013-0106
WDID: 5B070101001
Regulatory Measure Type: NPDES Permits
Program Type: NPDMMUNILRG
Adoption Date Of Regulatory Measure: 07/26/2013
Effective Date Of Regulatory Measure: 09/14/2013
Termination Date Of Regulatory Measure: 05/31/2019
Expiration Date Of Regulatory Measure: 09/01/2018
Discharge Address: 2251 Elkins Way
Discharge Name: Brentwood City
Discharge City: Brentwood
Discharge State: CA
Discharge Zip: 94513
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: CA0082660
Status: Active
Agency Number: 148431
Region: 5S
Regulatory Measure ID: 392726
Order Number: R5-2013-0106
Regulatory Measure Type: NPDES Permits
Place ID: 210322
WDID: 5B070101001
Program Type: NPDMMUNILRG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Adoption Date Of Regulatory Measure: 07/26/2013
Effective Date Of Regulatory Measure: 09/14/2013
Expiration Date Of Regulatory Measure: 09/01/2018
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Brentwood City
Discharge Address: 2251 Elkins Way
Discharge City: Brentwood
Discharge State: CA
Discharge Zip: 94513
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commercial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported
Constype Other Description: Not reported
Constype Other Ind: Not reported
Constype Recons Ind: Not reported
Constype Residential Ind: Not reported
Constype Transport Ind: Not reported
Constype Utility Description: Not reported
Constype Utility Ind: Not reported
Constype Water Sewer Ind: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Dir Discharge Uswater Ind: Not reported
Receiving Water Name: Not reported
Certifier: Not reported
Certifier Title: Not reported
Certification Date: Not reported
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

Name: BRENTWOOD WWTP
Address: 2251 ELKINS WAY
City,State,Zip: BRENTWOOD, CA 94513
Facility Status: Active
NPDES Number: CA0082660
Region: 5S
Agency Number: 148431
Regulatory Measure ID: 430031
Place ID: 210322
Order Number: R5-2019-0029
WDID: 5B070101001
Regulatory Measure Type: NPDES Permits
Program Type: NPDMMUNILRG
Adoption Date Of Regulatory Measure: 04/05/2019
Effective Date Of Regulatory Measure: 06/01/2019
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: 05/31/2024
Discharge Address: 2251 Elkins Way
Discharge Name: Brentwood City
Discharge City: Brentwood
Discharge State: CA
Discharge Zip: 94513
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: CA0082660
Status: Active
Agency Number: 148431
Region: 5S
Regulatory Measure ID: 392726
Order Number: R5-2013-0106
Regulatory Measure Type: NPDES Permits
Place ID: 210322
WDID: 5B070101001
Program Type: NPDMMUNILRG
Adoption Date Of Regulatory Measure: 07/26/2013
Effective Date Of Regulatory Measure: 09/14/2013
Expiration Date Of Regulatory Measure: 09/01/2018
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Brentwood City
Discharge Address: 2251 Elkins Way
Discharge City: Brentwood

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

| | |
|-------------------------------|--------------|
| Discharge State: | CA |
| Discharge Zip: | 94513 |
| Received Date: | Not reported |
| Processed Date: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Place Size: | Not reported |
| Place Size Unit: | Not reported |
| Contact: | Not reported |
| Contact Title: | Not reported |
| Contact Phone: | Not reported |
| Contact Phone Ext: | Not reported |
| Contact Email: | Not reported |
| Operator Name: | Not reported |
| Operator Address: | Not reported |
| Operator City: | Not reported |
| Operator State: | Not reported |
| Operator Zip: | Not reported |
| Operator Contact: | Not reported |
| Operator Contact Title: | Not reported |
| Operator Contact Phone: | Not reported |
| Operator Contact Phone Ext: | Not reported |
| Operator Contact Email: | Not reported |
| Operator Type: | Not reported |
| Developer: | Not reported |
| Developer Address: | Not reported |
| Developer City: | Not reported |
| Developer State: | Not reported |
| Developer Zip: | Not reported |
| Developer Contact: | Not reported |
| Developer Contact Title: | Not reported |
| Constype Linear Utility Ind: | Not reported |
| Emergency Phone: | Not reported |
| Emergency Phone Ext: | Not reported |
| Constype Above Ground Ind: | Not reported |
| Constype Below Ground Ind: | Not reported |
| Constype Cable Line Ind: | Not reported |
| Constype Comm Line Ind: | Not reported |
| Constype Commercial Ind: | Not reported |
| Constype Electrical Line Ind: | Not reported |
| Constype Gas Line Ind: | Not reported |
| Constype Industrial Ind: | Not reported |
| Constype Other Description: | Not reported |
| Constype Other Ind: | Not reported |
| Constype Recons Ind: | Not reported |
| Constype Residential Ind: | Not reported |
| Constype Transport Ind: | Not reported |
| Constype Utility Description: | Not reported |
| Constype Utility Ind: | Not reported |
| Constype Water Sewer Ind: | Not reported |
| Dir Discharge Uswater Ind: | Not reported |
| Receiving Water Name: | Not reported |
| Certifier: | Not reported |
| Certifier Title: | Not reported |
| Certification Date: | Not reported |
| Primary Sic: | Not reported |
| Secondary Sic: | Not reported |

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BRENTWOOD WWTP (Continued)

S100926012

Tertiary Sic: Not reported

CIWQS:
 Name: BRENTWOOD WWTP
 Address: 2251 ELKINS WAY
 City,State,Zip: BRENTWOOD, CA 94513
 Agency: Brentwood City
 Agency Address: 2251 Elkins Way, Brentwood, CA 94513
 Place/Project Type: Wastewater Treatment Facility
 SIC/NAICS: 4952
 Region: 5S
 Program: NPDMUNILRG, REC
 Regulatory Measure Status: Active
 Regulatory Measure Type: NPDES Permit
 Order Number: R5-2019-0029
 WDID: 5B070101001
 NPDES Number: CA0082660
 Adoption Date: 4/5/2019
 Effective Date: 06/01/2019
 Termination Date: Not reported
 Expiration/Review Date: 05/31/2024
 Design Flow: 5
 Major/Minor: Major
 Complexity: B
 TTWQ: 2
 Enforcement Actions within 5 years: 3
 Violations within 5 years: 11
 Latitude: 37.95792
 Longitude: -121.68634

41
 South
 1/2-1
 0.681 mi.
 3598 ft.

**SAND CREEK ELEMENTARY SCHOOL
 SAND CREEK ROAD/GARIN PARKWAY
 BRENTWOOD, CA 94513**

**ENVIROSTOR S116165382
 SCH N/A**

**Relative:
 Higher
 Actual:
 58 ft.**

ENVIROSTOR:
 Name: SAND CREEK ELEMENTARY SCHOOL
 Address: SAND CREEK ROAD/GARIN PARKWAY
 City,State,Zip: BRENTWOOD, CA 94513
 Facility ID: 07100004
 Status: No Further Action
 Status Date: 04/04/2006
 Site Code: 204148
 Site Type: School Investigation
 Site Type Detailed: School
 Acres: 12
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Kamili Siglowide
 Supervisor: Mark Malinowski
 Division Branch: Northern California Schools & Santa Susana
 Assembly: 11
 Senate: 07
 Special Program: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAND CREEK ELEMENTARY SCHOOL (Continued)

S116165382

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 37.9482
Longitude: -121.6889
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS, OIL FIELD
Potential COC: DDD Toxaphene Chromium III Toluene Xylenes
Confirmed COC: 30550-NO 30023-NO 30152-NO 30006-NO 30593-NO
Potential Description: SOIL
Alias Name: BRENTWOOD UNION SD-PRPOSED SAND CREEK ES
Alias Type: Alternate Name
Alias Name: 204148
Alias Type: Project Code (Site Code)
Alias Name: 07100003
Alias Type: Envirostor ID Number
Alias Name: 07100004
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/16/2005
Comments: Accepted changes made to the workplan and finalized letter for signature. Workplan Addendum addressing comments. Pea due 7/7/05
6/10/05 Verbal Approval of Workplan and letter signed 6/16/05

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/04/2006
Comments: DTSC approved the Preliminary Environmental Assessment with a no further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/13/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/14/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/07/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 01/19/2005
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SAND CREEK ELEMENTARY SCHOOL (Continued)

S116165382

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: SAND CREEK ELEMENTARY SCHOOL
Address: SAND CREEK ROAD/GARIN PARKWAY
City,State,Zip: BRENTWOOD, CA 94513
Facility ID: 07100004
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 12
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Kamili Siglowide
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 204148
Assembly: 11
Senate: 07
Special Program Status: Not reported
Status: No Further Action
Status Date: 04/04/2006
Restricted Use: NO
Funding: School District
Latitude: 37.9482
Longitude: -121.6889
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS, OIL FIELD
Potential COC: DDD, Toxaphene, Chromium III, Toluene, Xylenes
Confirmed COC: 30550-NO, 30023-NO, 30152-NO, 30006-NO, 30593-NO
Potential Description: SOIL
Alias Name: BRENTWOOD UNION SD-PROPOSED SAND CREEK ES
Alias Type: Alternate Name
Alias Name: 204148
Alias Type: Project Code (Site Code)
Alias Name: 07100003
Alias Type: Envirostor ID Number
Alias Name: 07100004
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/16/2005
Comments: Accepted changes made to the workplan and finalized letter for

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SAND CREEK ELEMENTARY SCHOOL (Continued)

S116165382

signature. Workplan Addendum addressing comments. Pea due 7/7/05
 6/10/05 Verbal Approval of Workplan and letter signed 6/16/05

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Preliminary Endangerment Assessment Report
 Completed Date: 04/04/2006
 Comments: DTSC approved the Preliminary Environmental Assessment with a no further action determination.

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Cost Recovery Closeout Memo
 Completed Date: 04/13/2006
 Comments: Not reported

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Site Inspections/Visit (Non LUR)
 Completed Date: 06/14/2005
 Comments: Not reported

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Site Inspections/Visit (Non LUR)
 Completed Date: 03/07/2005
 Comments: Not reported

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Environmental Oversight Agreement
 Completed Date: 01/19/2005
 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

42
NW
1/2-1
0.789 mi.
4168 ft.

ZOCCHI ELEMENTARY SCHOOL
BROWNSTONE ROAD/ANDERSON LANE
OAKLEY, CA 94561

ENVIROSTOR S107737654
SCH N/A

Relative:
Higher
Actual:
54 ft.

ENVIROSTOR:
 Name: ZOCCHI ELEMENTARY SCHOOL
 Address: BROWNSTONE ROAD/ANDERSON LANE
 City,State,Zip: OAKLEY, CA 94561
 Facility ID: 60000254
 Status: No Further Action
 Status Date: 09/11/2007
 Site Code: 204177

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZOCCHI ELEMENTARY SCHOOL (Continued)

S107737654

Site Type: School Investigation
Site Type Detailed: School
Acres: 24.9
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jose Luevano
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Assembly: 11
Senate: 07
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 37.96996
Longitude: -121.7014
APN: 034-190-002, 034-190-003, 034-190-004, 034-200-017, 034-200-025, 034190002, 034190003, 034190004, 034200017, 034200025
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC: Arsenic Benzene Chlordane DDD DDE DDT Lead TPH-diesel TPH-gas TPH-MOTOR OIL
Confirmed COC: 30001-NO 30003-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO No Contaminants found 30024-NO 30025-NO 3002502-NO
Potential Description: SOIL
Alias Name: 034-190-002
Alias Type: APN
Alias Name: 034-190-003
Alias Type: APN
Alias Name: 034-190-004
Alias Type: APN
Alias Name: 034-200-017
Alias Type: APN
Alias Name: 034-200-025
Alias Type: APN
Alias Name: 034190002
Alias Type: APN
Alias Name: 034190003
Alias Type: APN
Alias Name: 034190004
Alias Type: APN
Alias Name: 034200017
Alias Type: APN
Alias Name: 034200025
Alias Type: APN
Alias Name: 204177
Alias Type: Project Code (Site Code)
Alias Name: 60000254
Alias Type: Envirostor ID Number
Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 12/13/2006
Comments: DTSC approved the PEA WP.
Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZOCCHI ELEMENTARY SCHOOL (Continued)

S107737654

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/18/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 05/30/2007
Comments: DTSC approved the SSI Tech Memo Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 05/18/2007
Comments: 4.15 approval was included in the PEA further action approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/11/2007
Comments: DTSC approved the SSI report with a no further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 04/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 04/16/2007
Comments: Sent fully executed agreements to district.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/12/2007
Comments: CRU Memo approved.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: ZOCCHI ELEMENTARY SCHOOL
Address: BROWNSTONE ROAD/ANDERSON LANE
City,State,Zip: OAKLEY, CA 94561
Facility ID: 60000254

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZOCCHI ELEMENTARY SCHOOL (Continued)

S107737654

Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 24.9
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jose Luevano
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 204177
Assembly: 11
Senate: 07
Special Program Status: Not reported
Status: No Further Action
Status Date: 09/11/2007
Restricted Use: NO
Funding: School District
Latitude: 37.96996
Longitude: -121.7014
APN: 034-190-002, 034-190-003, 034-190-004, 034-200-017, 034-200-025, 034190002, 034190003, 034190004, 034200017, 034200025
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC: Arsenic, Arsenic, Benzene, Chlordane, DDD, DDE, DDT, Lead, TPH-diesel, TPH-gas, TPH-MOTOR OIL
Confirmed COC: 30001-NO, 30003-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO, No Contaminants found, 30024-NO, 30025-NO, 3002502-NO
Potential Description: SOIL
Alias Name: 034-190-002
Alias Type: APN
Alias Name: 034-190-003
Alias Type: APN
Alias Name: 034-190-004
Alias Type: APN
Alias Name: 034-200-017
Alias Type: APN
Alias Name: 034-200-025
Alias Type: APN
Alias Name: 034190002
Alias Type: APN
Alias Name: 034190003
Alias Type: APN
Alias Name: 034190004
Alias Type: APN
Alias Name: 034200017
Alias Type: APN
Alias Name: 034200025
Alias Type: APN
Alias Name: 204177
Alias Type: Project Code (Site Code)
Alias Name: 60000254
Alias Type: Envirostor ID Number
Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZOCCHI ELEMENTARY SCHOOL (Continued)

S107737654

Completed Date: 12/13/2006
Comments: DTSC approved the PEA WP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/18/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 05/30/2007
Comments: DTSC approved the SSI Tech Memo Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 05/18/2007
Comments: 4.15 approval was included in the PEA further action approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/11/2007
Comments: DTSC approved the SSI report with a no further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 04/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 04/16/2007
Comments: Sent fully executed agreement to district.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/12/2007
Comments: CRU Memo approved.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

43
NE
1/2-1
0.794 mi.
4194 ft.

76-ACRE FOURTH HIGH SCHOOL
DELTA AND SELLERS
BRENTWOOD, CA 94561

ENVIROSTOR **S107735777**
SCH **N/A**

Relative:
Lower
Actual:
36 ft.

ENVIROSTOR:
 Name: 76-ACRE FOURTH HIGH SCHOOL
 Address: DELTA AND SELLERS
 City,State,Zip: BRENTWOOD, CA 94561
 Facility ID: 70000141
 Status: No Further Action
 Status Date: 12/30/2009
 Site Code: 204168
 Site Type: School Investigation
 Site Type Detailed: School
 Acres: 76
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Mellan Songco
 Supervisor: Mark Malinowski
 Division Branch: Northern California Schools & Santa Susana
 Assembly: 11
 Senate: 07
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: School District
 Latitude: 37.96699
 Longitude: -121.6799
 APN: 018-310-011, 018-310-012, 018-310-013, 018310011, 018310012, 018310013
 Not reported
 Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, OIL FIELD, RESIDENTIAL AREA
 Potential COC: Arsenic Benzene Chlordane DDD DDE DDT Dioxin (as 2,3,7,8-TCDD TEQ
 Lead Methane TPH-gas Ethylbenzene Hydrogen sulfide Toluene Xylenes
 Confirmed COC: 30001-NO 30003-NO 30004-NO 30025-NO 30272-NO 30330-NO 30550-NO
 30593-NO 30013-NO 30015-NO 30006-NO 30007-NO 30008-NO 30009-NO No
 Contaminants found
 Potential Description: SOIL, SV
 Alias Name: 58 ACRE FOURTH HIGH SCHOOL SITE
 Alias Type: Alternate Name
 Alias Name: 018-310-011
 Alias Type: APN
 Alias Name: 018-310-012
 Alias Type: APN
 Alias Name: 018-310-013
 Alias Type: APN
 Alias Name: 018310011
 Alias Type: APN
 Alias Name: 018310012
 Alias Type: APN
 Alias Name: 018310013
 Alias Type: APN
 Alias Name: 204168
 Alias Type: Project Code (Site Code)
 Alias Name: 70000141
 Alias Type: Envirostor ID Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/17/2006
Comments: No determination required. Review of document for PEA scoping background only

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/27/2006
Comments: DTSC approved the PEA Workplan as Final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 09/25/2008
Comments: DTSC approved the PEA Addendum Tech Memo for additional residual ag chemical sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/26/2009
Comments: Approved PEA Report with further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 05/26/2009
Comments: DTSC Approved the SSI Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 12/30/2009
Comments: DTSC approved the SSI Report that no further investigation is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 12/21/2009
Comments: DTSC approved the SSI Tech Memo

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 11/28/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/13/2005
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/01/2008
Comments: Updated EOA cost estimate worksheet (Exhibit D) mailed to district with cover letter. Cost estimate revised based on redo of PEA, additional acreage, project delays, and site complexity

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/28/2010
Comments: DTSC sent a CRU to the accounting unit to summarize costs associated with the SSI.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/10/2009
Comments: Project Manager changed from Mike Hall to Mellan Songco

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: 76-ACRE FOURTH HIGH SCHOOL
Address: DELTA AND SELLERS
City,State,Zip: BRENTWOOD, CA 94561
Facility ID: 70000141
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 76
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Mellan Songco
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 204168
Assembly: 11
Senate: 07

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

Special Program Status: Not reported
Status: No Further Action
Status Date: 12/30/2009
Restricted Use: NO
Funding: School District
Latitude: 37.96699
Longitude: -121.6799
APN: 018-310-011, 018-310-012, 018-310-013, 018310011, 018310012, 018310013
Not reported
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, OIL FIELD, RESIDENTIAL AREA
Potential COC: Arsenic, Arsenic, Benzene, Chlordane, DDD, DDE, DDT, Dioxin (as 2,3,7,8-TCDD TEQ, Lead, Methane, TPH-gas, Ethylbenzene, Hydrogen sulfide, Toluene, Xylenes
Confirmed COC: 30001-NO, 30003-NO, 30004-NO, 30025-NO, 30272-NO, 30330-NO, 30550-NO, 30593-NO, 30013-NO, 30015-NO, 30006-NO, 30007-NO, 30008-NO, 30009-NO, No Contaminants found
Potential Description: SOIL, SV
Alias Name: 58 ACRE FOURTH HIGH SCHOOL SITE
Alias Type: Alternate Name
Alias Name: 018-310-011
Alias Type: APN
Alias Name: 018-310-012
Alias Type: APN
Alias Name: 018-310-013
Alias Type: APN
Alias Name: 018310011
Alias Type: APN
Alias Name: 018310012
Alias Type: APN
Alias Name: 018310013
Alias Type: APN
Alias Name: 204168
Alias Type: Project Code (Site Code)
Alias Name: 70000141
Alias Type: Envirostor ID Number
Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/17/2006
Comments: No determination required. Review of document for PEA scoping background only

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/27/2006
Comments: DTSC approved the PEA Workplan as Final.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 09/25/2008
Comments: DTSC approved the PEA Addendum Tech Memo for additional residual ag chemical sampling.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/26/2009
Comments: Approved PEA Report with further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 05/26/2009
Comments: DTSC Approved the SSI Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 12/30/2009
Comments: DTSC approved the SSI Report that no further investigation is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 12/21/2009
Comments: DTSC approved the SSI Tech Memo

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 11/28/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 12/13/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/14/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/01/2008
Comments: Updated EOA cost estimate worksheet (Exhibit D) mailed to district with cover letter. Cost estimate revised based on redo of PEA, additional acreage, project delays, and site complexity

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/28/2010
Comments: DTSC sent a CRU to the accounting unit to summarize costs associated with the SSI.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Correspondence
 Completed Date: 09/10/2009
 Comments: PRoject Manager changed from Mike Hall to Mellan Songco

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

J44
North
1/2-1
0.865 mi.
4568 ft.

Relative:
Lower

Actual:
40 ft.

COOK BATTERY (OAKLEY BATTERY)
139 HILL AVENUE
OAKLEY, CA 94561

Site 1 of 2 in cluster J

RESPONSE **S101272690**
ENVIROSTOR **N/A**
CPS-SLIC
HIST Cal-Sites
LIENS
Cortese
HIST CORTESE
CERS

RESPONSE:
 Name: COOK BATTERY (OAKLEY BATTERY)
 Address: 139 HILL AVENUE
 City,State,Zip: OAKLEY, CA 94561
 Facility ID: 07360035
 Site Type: State Response
 Site Type Detail: State Response or NPL
 Acres: 1.5
 National Priorities List: NO
 Cleanup Oversight Agencies: SMBRP
 Lead Agency Description: DTSC - Site Cleanup Program
 Project Manager: Henry Wong
 Supervisor: John Karachewski
 Division Branch: Cleanup Berkeley
 Site Code: 200072
 Site Mgmt. Req.: NONE SPECIFIED
 Assembly: 11
 Senate: 07
 Special Program Status: Not reported
 Status: Certified / Operation & Maintenance
 Status Date: 06/28/2006
 Restricted Use: NO
 Funding: Orphan Funds
 Latitude: 37.97360
 Longitude: -121.6924
 APN: 033-090-028-3, 033090028
 Past Use: BATTERY RECLAMATION
 Potential COC : Lead
 Confirmed COC: Lead
 Potential Description: SOIL
 Alias Name: BATTERY RECLAMATION BUSINESS
 Alias Type: Alternate Name
 Alias Name: COOK BATTERY RECLAMATION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Alias Type: Alternate Name
Alias Name: OAKLEY BATTERY YARD
Alias Type: Alternate Name
Alias Name: 033-090-028-3
Alias Type: APN
Alias Name: 033090028
Alias Type: APN
Alias Name: 110030985682
Alias Type: EPA (FRS #)
Alias Name: SLT5S1103150
Alias Type: GeoTracker Global ID
Alias Name: P23001
Alias Type: PCode
Alias Name: 200072
Alias Type: Project Code (Site Code)
Alias Name: 07360035
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/22/2011
Comments: Contract 10-T1122 is for vegetation removal and cap maintenance. The term is from 5/1/11 through 6/30/11 and the budget is \$5,500.00.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/17/2011
Comments: to conduct maintenance (veg removal) of the cap

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 04/04/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/05/2012
Comments: DTSC prepared the 2016 Five Year Review. The Five Year Review evaluates the approved remedy and ensures that it remains protective of human health and the environment. This review recommends resurfacing the asphalt cap and removing trees from the Cook Battery property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/12/2013
Comments: Cap in good condition; still protective to surrounding environment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/29/2014

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Comments: Cap in good condition and still provides protectiveness to environment and human health. Recommend weed abatement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PRP Identification Memorandum
Completed Date: 08/26/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2016
Comments: The inspection report covers site visits conducted on January 15, 2016, February 9, 2016, and April 18, 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 01/21/2016
Comments: The Post HARP is for the 1/15/16 site visit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Orphan Site Designation
Completed Date: 12/16/2016
Comments: Final OSDM signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 01/07/2016
Comments: The HARP is effective from 1/13/2016 through 1/12/2017.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 02/09/2016
Comments: The Post HARP is for the 2/9/16 site visit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/13/2016
Comments: Contract 15-T4109 Amendment 1 extends contract expiration to 9/30/17. All other terms remain the same.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 07/15/2016
Comments: Contract 15-T4109, 6/30/16 - 12/31/16, \$10,000.00

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/07/2017

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Comments: Amendment 2 to Contract 15-T4109 to add \$100,000.00 and additional scope of work

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/06/2017
Comments: Contract 15-T4109 Amendment 2 specifies additional tasks, increase the budget to a total maximum of \$110,000.00, and extends contract expiration to 3/31/18, and increase. All other terms remain the same.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/13/2017
Comments: DTSC issued the Work Order 001 to ERRG for vegetation removal and cap repair activities as described in Tasks 1, 2, and 3 of Contract 15-T4109 and Tasks 4, 5, 6, and 7 of Contract 15-T4109 A2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 01/08/2018
Comments: The HARP covers the period from 1/1/18 through 12/31/18.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/02/2018
Comments: DTSC issued a Stop Work Order requesting ERRG to cease work under Contract No. 15-T4109 A2 because the contracted tasks had been completed and the subject contract was expired on 3/31/18.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 10/12/2018
Comments: Contract 18-T4526 covers asphalt cap maintenance activities for the period from 11/1/18 through 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 02/06/2019
Comments: DTSC issued the Work Order for asphalt cap maintenance activities pursuant to Contract 18-T4526, which covers for the period from 11/1/18 through 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 09/07/2018
Comments: Request for Funding (RFF) #18.0060 has a contract term from 11/1/18 to 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/12/2020
Comments: Contract 18-T4526 A-1 covers asphalt cap maintenance activities for the period from 11/1/18 through 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/19/2020
Comments: Work Order Number 002 is for Contract 18-T4526 A-1 covering asphalt cap maintenance activities for the period from 11/1/18 through 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/14/1999
Comments: Completed PEA for US EPA which confirmed that the site is capped.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/06/1991
Comments: Completed RA. Soil sampling of bordering properties and groundwater sampling of neighborhood wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/29/2001
Comments: Completed Five-Year Review. The review found that the remedy continues to be protective of human health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 06/24/1996
Comments: Approved O&M Plan for operation and maintenance of groundwater monitoring wells and cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/25/1996
Comments: Completed RA. Completion of neutralization, consolidation and encapsulation of contaminated soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 11/30/1995
Comments: Approved Remedial Design for implementation of RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 08/16/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Comments: Final Removal Action Workplan (RAW) approved. RAW requirements include onsite neutralization of acidic soil, onsite consolidation of lead contaminated soil, encapsulation of site with asphalt, and operation and maintenance of the asphalt cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 11/23/1994
Comments: Completed RA. The house located onsite (139 Hill Avenue) was demolished and disposed offsite.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/23/1994
Comments: Completed RA. Tobar House, #21 Cook's Court: concrete pad placed over buried battery casings which had to be left in place as removal would have undermined house foundation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/05/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/05/1993
Comments: Completed RA. Stabilization of property at 41 Rogers Lane: battery casings and contaminated soil were removed (40-50 cubic yards). Sidewall confirmation samples were taken, and excavation was backfilled with clean fill.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/29/1992
Comments: Completed RA. Removed 11 55-gallon drums of lead-contaminated soil cuttings from soil investigation borings, 2 drums of contaminated clothing and debris, and 13 drums of purged groundwater and rinsate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Engineering Evaluation / Cost Analysis - Non-Time Critical
Completed Date: 07/19/1991
Comments: Completed FRIFS (Soil). Performed soil sampling investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Engineering Evaluation / Cost Analysis - Non-Time Critical
Completed Date: 05/31/1991
Comments: Completed FRIFS (Groundwater). Installed four groundwater monitoring wells to investigate groundwater contamination.

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/05/1989
Comments: Completed RA. Removed approximately 315 cubic yards of contaminated soil and battery casings. Imported approximately 140 cubic yards of clean fill; installed temporary chip-seal cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/30/1989
Comments: Completed Expedited Response Action. Fenced and posted site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/01/1987
Comments: Completed Preliminary Assessment recommending further investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/24/1987
Comments: Completed Site Screening which recommended a Preliminary Assessment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/08/2005
Comments: Cap Upgrade Completion Report approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/22/2005
Comments: Cap Inspection Report signed off 6/22/05.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/08/1991
Comments: Fenced and capped adjacent Cooks Court property located at 115/125 Hill Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/09/2002
Comments: Report documenting groundwater monitoring and site/cap maintenance.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 09/30/2003
Comments: Abandoned all six remaining monitoring wells and performed site maintenance.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/14/2006
Comments: The report noted that the final remedy is still protective of public health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/29/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/27/2011
Comments: The overgrown weeds need to be trimmed and the debris/trash removed. A sign should be posted that states that the Site poses a public health threat and should include a DTSC contact number.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/31/1995
Comments: Responses to public comments on Draft Removal Action Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/01/1991
Comments: Fact sheet provides an update of the current activities at the site and announces a community meeting on July 25.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/18/2009
Comments: Work completed on June 18th, fence repaired and vegetation removed. Contractor used 3 people and 1 Bin to contain the cuttings and debris. Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/24/2009
Comments: Completion comment - The report documents the repair to the cap and fence as required by the LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/30/2016
Comments: DTSC prepared the 2016 Five Year Review. The Five Year Review evaluates the approved remedy and ensures that it remains protective of human health and the environment. This review recommends resurfacing the asphalt cap and removing trees from the Cook Battery

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/15/2011
Comments: Fieldwork was conducted on 6/14/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/29/2011
Comments: Vegetation and debris cleared from site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2011
Comments: Notice published 7/1/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/20/2017
Comments: Operation and maintenance activities consisting of vegetation clearing, tree removal, fence repair, cap repair began on 10/9/17 and completed on 10/20/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/03/2018
Comments: In November 2017, DTSC contractor ERRG completed cap maintenance activities which included vegetation removal, fence repair, and asphalt repair at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 08/29/2017
Comments: The Health and Safety Plan defines the protocols necessary for protecting onsite personnel from hazards associated with the cap maintenance activities to be performed, such as vegetation clearance, asphalt sealing, and fence repairs at the Cook Battery site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/11/2019
Comments: The Cap Maintenance Summary Report documents (a) completion of vegetation removal along the perimeter fence and within the asphalt cap area and (b) repair of cracks on the asphalt cap surface performed in February and October 2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Date: 03/14/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 04/27/2006
Comments: Lien recorded for \$2,249,419.35. Lien also serves as a deed notice regarding the hazardous substances which remain on the property above unrestricted standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fence & Post Order
Completed Date: 10/21/1988
Comments: Order to fence and post site issued to John Thomas (Docket No. not used).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/24/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/22/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/26/2007
Comments: No problems noted during inspection.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fence & Post Order
Completed Date: 04/12/1991
Comments: Order to Fence and Post the Cooks Court Property (115/125 Hill Avenue) adjacent to the Cook Battery site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Subst. Endangerment Determination
Completed Date: 12/15/1988
Comments: Issued I&SE Determination due to high levels of lead in soil (Docket No. not used).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 12/08/1980
Comments: Site Discovery. County Health Services first notified of potential contamination. County and DHS (predecessor to DTSC) test soil and groundwater. High levels of lead detected in soil and groundwater.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 08/16/1995
Comments: Approved RAW for onsite neutralization, consolidation and encapsulation of lead contaminated soil. Negative Declaration approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/08/1989
Comments: Amendment to Remedial Action Order, Docket No. HSA 88/89-031, to add John Thomas as a responsible party.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 09/30/1989
Comments: Amended RAO to add additional respondent. Final Determination of non-compliance with the Remedial Action Order issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 05/01/1989
Comments: Issued Remedial Action Order HSA 88/89-031 requiring investigation and remediation of the site due to high levels of lead in soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/14/2006
Comments: Site certified. Contaminated soils capped in place. A lien acts as a Deed Notice regarding the contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/24/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/30/2008
Comments: the cap is in good condition; however, weeds were overgrown and in the southeast corner the fence was damaged.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 01/09/2009
Comments: CFA Signed by Budgets for repair and maintenance on the cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/23/2009
Comments: The fully executed agreement between Engineering/Remediation Resources Group and the Department of Toxic Substances Control for maintenance repair of the cap and fence.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/08/2010
Comments: Upon observing the current site conditions, DTSC concludes that the remedies remain protective of human health and the environment. Impacted soil remains under the asphalt surface, which remains undisturbed. However, the overgrown weeds need to be trimmed and the debris removed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/01/2009
Comments: The asphalt surface was observed to be in good condition, with no signs of significant cracking. However, it was observed that weeds were overgrown and in the southeast corner the fence was damaged. Fence repair and weed removal are scheduled to begin in June 2009 by DTSC constructor.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/10/2009
Comments: Work order for the maintenance and repair of the Cap and Fence

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/30/2011
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: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 06/30/2021
Schedule Revised Date: Not reported

ENVIROSTOR:

Name: COOK BATTERY (OAKLEY BATTERY)
Address: 139 HILL AVENUE
City,State,Zip: OAKLEY, CA 94561
Facility ID: 07360035
Status: Certified / Operation & Maintenance
Status Date: 06/28/2006
Site Code: 200072
Site Type: State Response

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Site Type Detailed: State Response or NPL
Acres: 1.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Henry Wong
Supervisor: John Karachewski
Division Branch: Cleanup Berkeley
Assembly: 11
Senate: 07
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Orphan Funds
Latitude: 37.97360
Longitude: -121.6924
APN: 033-090-028-3, 033090028
Past Use: BATTERY RECLAMATION
Potential COC: Lead
Confirmed COC: Lead
Potential Description: SOIL
Alias Name: BATTERY RECLAMATION BUSINESS
Alias Type: Alternate Name
Alias Name: COOK BATTERY RECLAMATION
Alias Type: Alternate Name
Alias Name: OAKLEY BATTERY YARD
Alias Type: Alternate Name
Alias Name: 033-090-028-3
Alias Type: APN
Alias Name: 033090028
Alias Type: APN
Alias Name: 110030985682
Alias Type: EPA (FRS #)
Alias Name: SLT5S1103150
Alias Type: GeoTracker Global ID
Alias Name: P23001
Alias Type: PCode
Alias Name: 200072
Alias Type: Project Code (Site Code)
Alias Name: 07360035
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 04/22/2011
Comments: Contract 10-T1122 is for vegetation removal and cap maintenance. The term is from 5/1/11 through 6/30/11 and the budget is \$5,500.00.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 05/17/2011
Comments: to conduct maintenance (veg removal) of the cap

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 04/04/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/05/2012
Comments: DTSC prepared the 2016 Five Year Review. The Five Year Review evaluates the approved remedy and ensures that it remains protective of human health and the environment. This review recommends resurfacing the asphalt cap and removing trees from the Cook Battery property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/12/2013
Comments: Cap in good condition; still protective to surrounding environment

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/29/2014
Comments: Cap in good condition and still provides protectiveness to environment and human health. Recommend weed abatement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PRP Identification Memorandum
Completed Date: 08/26/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2016
Comments: The inspection report covers site visits conducted on January 15, 2016, February 9, 2016, and April 18, 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 01/21/2016
Comments: The Post HARP is for the 1/15/16 site visit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Orphan Site Designation
Completed Date: 12/16/2016
Comments: Final OSDM signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 01/07/2016
Comments: The HARP is effective from 1/13/2016 through 1/12/2017.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Post HARP Form
Completed Date: 02/09/2016
Comments: The Post HARP is for the 2/9/16 site visit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 12/13/2016
Comments: Contract 15-T4109 Amendment 1 extends contract expiration to 9/30/17. All other terms remain the same.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 07/15/2016
Comments: Contract 15-T4109, 6/30/16 - 12/31/16, \$10,000.00

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/07/2017
Comments: Amendment 2 to Contract 15-T4109 to add \$100,000.00 and additional scope of work

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 06/06/2017
Comments: Contract 15-T4109 Amendment 2 specifies additional tasks, increase the budget to a total maximum of \$110,000.00, and extends contract expiration to 3/31/18, and increase. All other terms remain the same.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 06/13/2017
Comments: DTSC issued the Work Order 001 to ERRG for vegetation removal and cap repair activities as described in Tasks 1, 2, and 3 of Contract 15-T4109 and Tasks 4, 5, 6, and 7 of Contract 15-T4109 A2.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 01/08/2018
Comments: The HARP covers the period from 1/1/18 through 12/31/18.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/02/2018
Comments: DTSC issued a Stop Work Order requesting ERRG to cease work under Contract No. 15-T4109 A2 because the contracted tasks had been completed and the subject contract was expired on 3/31/18.

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 10/12/2018
Comments: Contract 18-T4526 covers asphalt cap maintenance activities for the period from 11/1/18 through 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 02/06/2019
Comments: DTSC issued the Work Order for asphalt cap maintenance activities pursuant to Contract 18-T4526, which covers for the period from 11/1/18 through 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 09/07/2018
Comments: Request for Funding (RFF) #18.0060 has a contract term from 11/1/18 to 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/12/2020
Comments: Contract 18-T4526 A-1 covers asphalt cap maintenance activities for the period from 11/1/18 through 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 03/19/2020
Comments: Work Order Number 002 is for Contract 18-T4526 A-1 covering asphalt cap maintenance activities for the period from 11/1/18 through 12/31/20.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/14/1999
Comments: Completed PEA for US EPA which confirmed that the site is capped.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/06/1991
Comments: Completed RA. Soil sampling of bordering properties and groundwater sampling of neighborhood wells.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/29/2001
Comments: Completed Five-Year Review. The review found that the remedy continues to be protective of human health and the environment.

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 06/24/1996
Comments: Approved O&M Plan for operation and maintenance of groundwater monitoring wells and cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/25/1996
Comments: Completed RA. Completion of neutralization, consolidation and encapsulation of contaminated soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 11/30/1995
Comments: Approved Remedial Design for implementation of RAW.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 08/16/1995
Comments: Final Removal Action Workplan (RAW) approved. RAW requirements include onsite neutralization of acidic soil, onsite consolidation of lead contaminated soil, encapsulation of site with asphalt, and operation and maintenance of the asphalt cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 11/23/1994
Comments: Completed RA. The house located onsite (139 Hill Avenue) was demolished and disposed offsite.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/23/1994
Comments: Completed RA. Tobar House, #21 Cook's Court: concrete pad placed over buried battery casings which had to be left in place as removal would have undermined house foundation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/05/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/05/1993
Comments: Completed RA. Stabilization of property at 41 Rogers Lane: battery casings and contaminated soil were removed (40-50 cubic yards). Sidewall confirmation samples were taken, and excavation was backfilled with clean fill.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/29/1992
Comments: Completed RA. Removed 11 55-gallon drums of lead-contaminated soil cuttings from soil investigation borings, 2 drums of contaminated clothing and debris, and 13 drums of purged groundwater and rinsate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Engineering Evaluation / Cost Analysis - Non-Time Critical
Completed Date: 07/19/1991
Comments: Completed FRIFS (Soil). Performed soil sampling investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Engineering Evaluation / Cost Analysis - Non-Time Critical
Completed Date: 05/31/1991
Comments: Completed FRIFS (Groundwater). Installed four groundwater monitoring wells to investigate groundwater contamination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/05/1989
Comments: Completed RA. Removed approximately 315 cubic yards of contaminated soil and battery casings. Imported approximately 140 cubic yards of clean fill; installed temporary chip-seal cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/30/1989
Comments: Completed Expedited Response Action. Fenced and posted site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/01/1987
Comments: Completed Preliminary Assessment recommending further investigation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/24/1987
Comments: Completed Site Screening which recommended a Preliminary Assessment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 06/08/2005
Comments: Cap Upgrade Completion Report approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/22/2005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Comments: Cap Inspection Report signed off 6/22/05.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/08/1991
Comments: Fenced and capped adjacent Cooks Court property located at 115/125 Hill Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/09/2002
Comments: Report documenting groundwater monitoring and site/cap maintenance.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Report
Completed Date: 09/30/2003
Comments: Abandoned all six remaining monitoring wells and performed site maintenance.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/14/2006
Comments: The report noted that the final remedy is still protective of public health and the environment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/29/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/27/2011
Comments: The overgrown weeds need to be trimmed and the debris/trash removed. A sign should be posted that states that the Site poses a public health threat and should include a DTSC contact number.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/31/1995
Comments: Responses to public comments on Draft Removal Action Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/01/1991
Comments: Fact sheet provides an update of the current activities at the site and announces a community meeting on July 25.

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/18/2009
Comments: Work completed on June 18th, fence repaired and vegetation removed. Contractor used 3 people and 1 Bin to contain the cuttings and debris.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 09/24/2009
Comments: Completion comment - The report documents the repair to the cap and fence as required by the LUC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 06/30/2016
Comments: DTSC prepared the 2016 Five Year Review. The Five Year Review evaluates the approved remedy and ensures that it remains protective of human health and the environment. This review recommends resurfacing the asphalt cap and removing trees from the Cook Battery property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/15/2011
Comments: Fieldwork was conducted on 6/14/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 06/29/2011
Comments: Vegetation and debris cleared from site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2011
Comments: Notice published 7/1/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/20/2017
Comments: Operation and maintenance activities consisting of vegetation clearing, tree removal, fence repair, cap repair began on 10/9/17 and completed on 10/20/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 01/03/2018
Comments: In November 2017, DTSC contractor ERRG completed cap maintenance activities which included vegetation removal, fence repair, and asphalt repair at the site.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 08/29/2017
Comments: The Health and Safety Plan defines the protocols necessary for protecting onsite personnel from hazards associated with the cap maintenance activities to be performed, such as vegetation clearance, asphalt sealing, and fence repairs at the Cook Battery site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/11/2019
Comments: The Cap Maintenance Summary Report documents (a) completion of vegetation removal along the perimeter fence and within the asphalt cap area and (b) repair of cracks on the asphalt cap surface performed in February and October 2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment/Site Inspection Report (PA/SI)
Completed Date: 03/14/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 04/27/2006
Comments: Lien recorded for \$2,249,419.35. Lien also serves as a deed notice regarding the hazardous substances which remain on the property above unrestricted standards.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fence & Post Order
Completed Date: 10/21/1988
Comments: Order to fence and post site issued to John Thomas (Docket No. not used).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/24/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/22/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/26/2007
Comments: No problems noted during inspection.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fence & Post Order
Completed Date: 04/12/1991
Comments: Order to Fence and Post the Cooks Court Property (115/125 Hill Avenue) adjacent to the Cook Battery site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Subst. Endangerment Determination
Completed Date: 12/15/1988
Comments: Issued I&SE Determination due to high levels of lead in soil (Docket No. not used).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 12/08/1980
Comments: Site Discovery. County Health Services first notified of potential contamination. County and DHS (predecessor to DTSC) test soil and groundwater. High levels of lead detected in soil and groundwater.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 08/16/1995
Comments: Approved RAW for onsite neutralization, consolidation and encapsulation of lead contaminated soil. Negative Declaration approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/08/1989
Comments: Amendment to Remedial Action Order, Docket No. HSA 88/89-031, to add John Thomas as a responsible party.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 09/30/1989
Comments: Amended RAO to add additional respondent. Final Determination of non-compliance with the Remedial Action Order issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 05/01/1989
Comments: Issued Remedial Action Order HSA 88/89-031 requiring investigation and remediation of the site due to high levels of lead in soil.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/14/2006
Comments: Site certified. Contaminated soils capped in place. A lien acts as a Deed Notice regarding the contamination.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/24/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 04/30/2008
Comments: the cap is in good condition; however, weeds were overgrown and in the southeast corner the fence was damaged.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 01/09/2009
Comments: CFA Signed by Budgets for repair and maintenance on the cap.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract
Completed Date: 03/23/2009
Comments: The fully executed agreement between Engineering/Remediation Resources Group and the Department of Toxic Substances Control for maintenance repair of the cap and fence.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 07/08/2010
Comments: Upon observing the current site conditions, DTSC concludes that the remedies remain protective of human health and the environment. Impacted soil remains under the asphalt surface, which remains undisturbed. However, the overgrown weeds need to be trimmed and the debris removed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/01/2009
Comments: The asphalt surface was observed to be in good condition, with no signs of significant cracking. However, it was observed that weeds were overgrown and in the southeast corner the fence was damaged. Fence repair and weed removal are scheduled to begin in June 2009 by DTSC constructor.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/10/2009
Comments: Work order for the maintenance and repair of the Cap and Fence

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/30/2011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 06/30/2021
Schedule Revised Date: Not reported

CPS-SLIC:

Name: COOKS BATTERY RECLAMATION SITE
Address: 139 HILL AVENUE
City,State,Zip: OAKLEY, CA
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 06/14/2006
Global Id: SLT5S1103150
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number: Not reported
Latitude: 37.97429
Longitude: -121.688641
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: SLT5S110
File Location: DTSC
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Lead
Site History: DTSC Lead - See Envirostor for more information. Site is capped - final remedy implemented in 2006.

[Click here to access the California GeoTracker records for this facility:](#)

Calsite:

Name: COOK BATTERY (OAKLEY BATTERY)
Address: 139 HILL AVENUE
City: OAKLEY
Region: BERKELEY
Facility ID: 07360035
Facility Type: STATE
Type: STATE FUNDED SITE
Branch: NC
Branch Name: NORTH COAST
File Name: Not reported
State Senate District: 05011986
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 36
SIC Name: MANU - ELECTRONIC & OTHER ELECTRIC EQUIP
Access: Controlled
Cortese: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Suspected
Staff Member Responsible for Site: BBROWN
Supervisor Responsible for Site: Not reported
Region Water Control Board: CV
Region Water Control Board Name: CENTRAL VALLEY
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 15
State Senate District Code: 07
Facility ID: 07360035
Activity: DISC
Activity Name: DISCOVERY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 12081980
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: SS
Activity Name: SITE SCREENING
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 03241987
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: ISE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 12301988
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: ERA
Activity Name: EXPEDITED RESPONSE ACTION
AWP Code: F&P
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01301989
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: Not reported
Proposed Budget: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 05301989
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: FDNC
Activity Name: FINAL DETERMINATION OF NON-COMPLIANCE
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09301989
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09301989
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: BTTRY
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 10051989
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 315
Liquids Treated (Gals): 0
Action Included Capping: X
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: REMOVAL AND REDISPOSAL OF APPROXIMATELY 315 CU YDS OF HIGHLY CONTAMIN-ATED SOIL INCLUDING LARGE PIECES OF BATTERY CASINGS.
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: FENCE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 07081991
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: X
Removal Action Certification: N
Activity Comments: THIS RA CONSISTED OF FENCING AND POSTING AN ADJACENT PROPERTY CALLED COOKS COURT. BULK OF WORK DONE APRIL 1991, WITH SOME RESIDUAL WORKDONE JULY 1991.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: FRIFS
Activity Name: FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code: GW
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 05311991
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: FRIFS
Activity Name: FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code: SOIL
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 07191991
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: SOIL
Proposed Budget: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06291992
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: 26 55-GALLON DRUMS WERE REMOVED. OF THESE, 13 CONTAINED
NON-HAZARDOUSWASTE.
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: PRP
Activity Name: POTENTIAL RESPONSIBLE PARTY SEARCH
AWP Code: BASE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01271993
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: 41ROG
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 08051993
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

| | |
|-------------------------------|--|
| Liquids Removed (Gals): | 45 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | X |
| Removal Action Certification: | N |
| Activity Comments: | AN ESTIMATE OF 40 TO 50 CU YDS WERE EXCAVATED AND DEPOSITED IN THREECLOSED TOP STORAGE BINS. |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 07360035 |
| Activity: | STAB |
| Activity Name: | LONG-TERM SITE STABILIZATION CERTIFICATION |
| AWP Code: | 41ROG |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 08051993 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | AWP |
| Definition of Status: | ANNUAL WORKPLAN - ACTIVE SITE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 07360035 |
| Activity: | RA |
| Activity Name: | REMOVAL ACTION |
| AWP Code: | TOBAR |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 02231994 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | AWP |
| Definition of Status: | ANNUAL WORKPLAN - ACTIVE SITE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | X |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | N |
| Activity Comments: | CONCRETE PAD PLACED TO REMOVE THE THREAT OF CONTACT WITH LEADCONTAMINATED SOIL. |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: PRP
Activity Name: POTENTIAL RESPONSIBLE PARTY SEARCH
AWP Code: ENHAN
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09301994
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: HOUSE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 11231994
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 75
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: APPROXIMATELY 75 TONS OF DEBRIS AND 30 GALLONS OF HOUSEHOLD WASTE WEREHAULED AWAY FOR DISPOSAL.
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: NEG D

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

| | |
|-------------------------------|-------------------------------|
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 08161995 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | AWP |
| Definition of Status: | ANNUAL WORKPLAN - ACTIVE SITE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 07360035 |
| Activity: | RAW |
| Activity Name: | REMOVAL ACTION WORKPLAN |
| AWP Code: | Not reported |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 08161995 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | AWP |
| Definition of Status: | ANNUAL WORKPLAN - ACTIVE SITE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 07360035 |
| Activity: | DES |
| Activity Name: | DESIGN |
| AWP Code: | Not reported |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 11301995 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | AWP |
| Definition of Status: | ANNUAL WORKPLAN - ACTIVE SITE |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

| | |
|-------------------------------|---|
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 07360035 |
| Activity: | RA |
| Activity Name: | REMOVAL ACTION |
| AWP Code: | ACID |
| Proposed Budget: | 0 |
| AWP Completion Date: | Not reported |
| Revised Due Date: | Not reported |
| Comments Date: | 06251996 |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | AWP |
| Definition of Status: | ANNUAL WORKPLAN - ACTIVE SITE |
| Liquids Removed (Gals): | 1449 |
| Liquids Treated (Gals): | 797 |
| Action Included Capping: | X |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | N |
| Activity Comments: | ONSITE NEUTRALIZATION, CONSOLIDATION AND ENCAPSULATION OFCONTAMINATED SOIL. |
| For Commercial Reuse: | 0 |
| For Industrial Reuse: | 0 |
| For Residential Reuse: | 0 |
| Unknown Type: | 0 |
| Facility ID: | 07360035 |
| Activity: | CERT |
| Activity Name: | CERTIFICATION |
| AWP Code: | Not reported |
| Proposed Budget: | 0 |
| AWP Completion Date: | 07012005 |
| Revised Due Date: | 07012006 |
| Comments Date: | Not reported |
| Est Person-Yrs to complete: | 0 |
| Estimated Size: | Not reported |
| Request to Delete Activity: | Not reported |
| Activity Status: | AWP |
| Definition of Status: | ANNUAL WORKPLAN - ACTIVE SITE |
| Liquids Removed (Gals): | 0 |
| Liquids Treated (Gals): | 0 |
| Action Included Capping: | Not reported |
| Well Decommissioned: | Not reported |
| Action Included Fencing: | Not reported |
| Removal Action Certification: | Not reported |
| Activity Comments: | Not reported |
| For Commercial Reuse: | 0 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: OM
Activity Name: OPERATION & MAINTENANCE
AWP Code: PLAN
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06241996
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: 5YEAR
Activity Name: FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06292001
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Revised Due Date: Not reported
Comments Date: 02061991
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 523
Liquids Treated (Gals): 0
Action Included Capping: X
Well Decommissioned: Not reported
Action Included Fencing: X
Removal Action Certification: N
Activity Comments: SITE FENCED AND POSTED; 523 TONS OF LEAD CONTAMINATED SOIL EXCAVATED;SITE GRADED AND CAPPED WITH CHIP SEAL.

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: PEA
Activity Name: PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code: EPA
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 05141999
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0
Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: 5YEAR
Activity Name: FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 09302005
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: AWP
Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals): 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Liquids Treated (Gals): 0
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 139 HILL AVENUE
Alternate City,St,Zip: OAKLEY, CA 94561
Background Info: The Cook Battery Reclamation site, a residential property, was used for a battery reclamation business in the 1950s and 1960s. Salvageable lead was removed from discarded automobile batteries. High concentrations of lead were present in surface soils. Buried battery casings were found on and near the site. Since the removal action, groundwater monitoring results have consistently been non-detect. In Spring 2003, DTSC closed all of the wells. The cap will continue to be inspected periodically for deterioration.
Comments Date: 01271993
Comments: Conducted Potential Responsible Party search.
Comments Date: 01301989
Comments: Completed Expedited Response Action. Fenced and posted site.
Comments Date: 02061991
Comments: Completed RA. Soil sampling of bordering properties and
Comments Date: 02061991
Comments: groundwater sampling of neighborhood wells.
Comments Date: 02231994
Comments: Completed RA. Tobar House, #21 Cook's Court: concrete pad
Comments Date: 02231994
Comments: placed over buried battery casings which had to be left in place
Comments Date: 02231994
Comments: as removal would have undermined house foundation.
Comments Date: 03241987
Comments: Completed Site Screening which recommended a Preliminary
Comments Date: 03241987
Comments: Assessment.
Comments Date: 05141999
Comments: Completed PEA for US EPA.
Comments Date: 05301989
Comments: Issued Remedial Action Order HSA 88/89-031 requiring
Comments Date: 05301989
Comments: investigation and remediation of the site due to high levels of
Comments Date: 05301989
Comments: lead in soil.
Comments Date: 05311991
Comments: Completed FRIFS (Groundwater). Installed four groundwater
Comments Date: 05311991
Comments: monitoring wells to investigate groundwater contamination.
Comments Date: 06011987
Comments: Completed Preliminary Assessment recommending further
Comments Date: 06011987
Comments: investigation.
Comments Date: 06241996
Comments: Approved O&M Plan for operation and maintenance of groundwater

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Comments Date: 06241996
Comments: monitoring wells and cap.
Comments Date: 06251996
Comments: Completed RA. Completion of neutralization, consolidation and
Comments Date: 06251996
Comments: encapsulation of contaminated soil.
Comments Date: 06291992
Comments: Completed RA. Removed 11 55-gallon drums of lead-contaminated
Comments Date: 06291992
Comments: soil cuttings from soil investigation borings, 2 drums of
Comments Date: 06291992
Comments: contaminated clothing and debris, and 13 drums of purged
Comments Date: 06291992
Comments: groundwater and rinsate.
Comments Date: 06292001
Comments: Completed Five-Year Review. The review found that the remedy
Comments Date: 06292001
Comments: continues to be protective of human health and the environment.
Comments Date: 07081991
Comments: Completed RA. Fenced and posted adjacent Cooks Court property.
Comments Date: 07191991
Comments: Completed FRIFS (Soil). Performed soil sampling investigation.
Comments Date: 08051993
Comments: Completed RA. Stabilization of property at 41 Rogers Lane:
Comments Date: 08051993
Comments: battery casings and contaminated soil were removed (40-50 cubic
Comments Date: 08051993
Comments: yards). Sidewall confirmation samples were taken, and
Comments Date: 08051993
Comments: excavation was backfilled with clean fill.
Comments Date: 08161995
Comments: Approved RAW for onsite neutralization, consolidation and
Comments Date: 08161995
Comments: encapsulation of lead contaminated soil. Negative Declaration
Comments Date: 08161995
Comments: approved.
Comments Date: 09301989
Comments: Amended RAO to add additional respondent. Final Determination
Comments Date: 09301989
Comments: of non-compliance with the Remedial Action Order issued.
Comments Date: 09301994
Comments: Conducted enhanced search for potentially responsible parties.
Comments Date: 10051989
Comments: Completed RA. Removed approximately 315 cubic yards of
Comments Date: 10051989
Comments: contaminated soil and battery casings. Imported approximately
Comments Date: 10051989
Comments: 140 cubic yards of clean fill; installed temporary chip-seal cap.
Comments Date: 11231994
Comments: Completed RA. The house located onsite (139 Hill Avenue) was
Comments Date: 11231994
Comments: demolished and disposed offsite.
Comments Date: 11301995
Comments: Approved Remedial Design for implementation of RAW.
Comments Date: 12081980
Comments: Site Discovery. County Health Services first notified of
Comments Date: 12081980

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Comments: potential contamination. County and DHS (predecessor to DTSC)
Comments Date: 12081980
Comments: test soil and groundwater. High levels of lead detected in soil
Comments Date: 12081980
Comments: and groundwater.
Comments Date: 12301988
Comments: Issued I&SE Order & Determination due to high levels of lead in
Comments Date: 12301988
Comments: soil.
ID Name: CALSTARS CODE
ID Value: 200072
ID Name: BEP DATABASE PCODE
ID Value: P23001
Alternate Name: BATTERY RECLAMATION BUSINESS
Alternate Name: OAKLEY BATTERY YARD
Alternate Name: COOK BATTERY RECLAMATION
Alternate Name: COOK BATTERY (OAKLEY BATTERY)
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

LIENS:

Name: COOK BATTERY (OAKLEY BATTERY)
City,State,Zip: OAKLEY, CA 94561
Envirostor Id: 7360035
Latitude: 37.973601
Longitude: -121.69247
Project Mgr: HENRY WONG
Project Code: 200072
If Satisfied: NO
Date Satisfied: Not reported
Site Status: CERTIFIED / OPERATION & MAINTENANCE
Site Type: STATE RESPONSE OR NPL
Completed: 04/27/2006
Lien Amount: \$2,249,419.35
Amount Remaining: Not reported
APNS: 033-090-028-3, 033090028
Description: The Cook Battery Reclamation site, a residential property, was used for a battery reclamation business in the 1950s and 1960s. Salvageable lead was removed from discarded automobile batteries. Buried battery casings were found on and near the site.

CORTESE:

Name: COOK BATTERY (OAKLEY BATTERY)
Address: 139 HILL AVENUE
City,State,Zip: OAKLEY, CA 94561
Region: CORTESE
Envirostor Id: 7360035
Global ID: Not reported
Site/Facility Type: STATE RESPONSE
Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE
Status Date: 06/28/2006
Site Code: 200072
Latitude: 37.973601
Longitude: -121.69247
Owner: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

Enf Type: Not reported
Swat R: Not reported
Flag: envirosstor
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Haz Waste & Substances Sites

HIST CORTESE:

edr_fname: COOK BATTERY (OAKLEY BATT
edr_fadd1: 139 HILL
City,State,Zip: OAKLEY, CA 94561
Region: CORTESE
Facility County Code: 7
Reg By: CALSI
Reg Id: 07360035

CERS:

Name: COOKS BATTERY RECLAMATION SITE
Address: 139 HILL AVENUE
City,State,Zip: OAKLEY, CA
Site ID: 192023
CERS ID: SLT5S1103150
CERS Description: Cleanup Program Site

Affiliation:

Affiliation Type Desc: Regional Board Caseworker
Entity Name: zzz - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

J45
North
1/2-1
0.865 mi.
4568 ft.

COOK BATTERY RECLAMATION (OAKLEY BATTERY)
139 HILL AVENUE
OAKLEY, CA 94561
Site 2 of 2 in cluster J

CPS-SLIC S100833369
CA BOND EXP. PLAN N/A

Relative:
Lower
Actual:
40 ft.

SLIC REG 5:
Name: Cooks Battery Reclamation Site**
Address: 139 Hill Ave
City: Oakley
Region: 5
Facility Status: Preliminary Assessment
Unit: Facility is a Spill or site
Pollutant: Pb
Lead Agency: DTSC
Date Filed: 08/30/95

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY RECLAMATION (OAKLEY BATTERY) (Continued)

S100833369

Report Date: / /
Date Added: Not reported
Date Closed: Not reported

CA BOND EXP. PLAN:

Reponsible Party: DETAILED SITE EXPENDITURE PLAN
Project Revenue Source Company: Not reported
Project Revenue Source Addr: Not reported
Project Revenue Source City,St,Zip: Not reported
Project Revenue Source Desc:

At this time it appears that Bond funds will be necessary to remediate this site. If Bond funds are used to investigate and remediate the site, DHS will undertake appropriate cost recovery action.

Site Description:

The Cook Battery Reclamation site is a residential property which was the location of a battery reclamation operation in the 1950s and 1960s. Salvageable lead was removed from discarded automobile batteries. Battery casings and possibly other wastes were buried onsite.

Hazardous Waste Desc:

High concentrations of lead are present in surface soils. Battery casings and possibly other wastes are buried onsite.

Threat To Public Health & Env:

The site is a residential property located in a neighborhood with many families. Sampling data indicates contamination of offsite properties. Potential exposure may result from ingestion of contaminated soil, drinking lead-contaminated water or inhalation of wind-blown dust.

Site Activity Status:

In June of 1987, a preliminary assessment was completed. DHS will order the responsible parties to fence and post the site and perform site remediation activities. At this time, it appears that the responsible parties will be unable to comply with the order. If the RPs are unable or unwilling to perform remediation activities, DHS will find them in noncompliance with the order and perform the site remediation activities. DHS is working with the Contra Costa County Environmental Health Department to assess health risks and conduct community relations activities.

Count: 9 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|-----------|------------|------------------------------------|--------------------------------|-------|----------------------------|
| BRENTWOOD | S106707852 | LYON WOODFIELD PROJECT - BRENTWOOD | BRENTWOOD | | CPS-SLIC |
| BRENTWOOD | S106707851 | DOW CHEMICAL COMPANY - MARSH CREEK | BRENTWOOD | | CPS-SLIC |
| BRENTWOOD | S106707849 | STATE ROUTE 4 BYPASS AUTHORITY | BRENTWOOD | | CPS-SLIC |
| BRENTWOOD | S106230275 | VENTURINI LEASE SITE (BRENTWOOD OI | DEER VALLEY RD & LONE TREE WAY | | CPS-SLIC |
| BRENTWOOD | S113407730 | PREWETT RANCH | LONE TREE WY | 94513 | CONTRA COSTA CO. SITE LIST |
| BRENTWOOD | S106112407 | OXY USA INC. (BRENTWOOD OIL & GAS | LONE TREE WAY & DEER VALLEY RD | | CPS-SLIC |
| BRENTWOOD | S126327130 | 7-ELEVEN INC #38737 | 5951 LONE TREE WAY | 94513 | CERS HAZ WASTE |
| BRENTWOOD | S106842886 | COWELL RANCH/VINEYARDS AT MARSH CR | MARSH CREEK RD/CONCORD AVE | | CPS-SLIC |
| BRENTWOOD | S121665600 | PREWETT RANCH | SEC LONE TREE WY AT TILTON LN | 94513 | CIWQS |

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: 07/29/2020 | Source: EPA |
| Date Data Arrived at EDR: 08/03/2020 | Telephone: N/A |
| Date Made Active in Reports: 08/25/2020 | Last EDR Contact: 10/01/2020 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 01/11/2021 |
| | Data Release Frequency: Quarterly |

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

| | |
|---|--|
| Date of Government Version: 07/29/2020 | Source: EPA |
| Date Data Arrived at EDR: 08/03/2020 | Telephone: N/A |
| Date Made Active in Reports: 08/25/2020 | Last EDR Contact: 10/02/2020 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 01/11/2021 |
| | Data Release Frequency: Quarterly |

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 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: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMs by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

| | |
|---|--|
| Date of Government Version: 07/29/2020 | Source: EPA |
| Date Data Arrived at EDR: 08/03/2020 | Telephone: 800-424-9346 |
| Date Made Active in Reports: 08/25/2020 | Last EDR Contact: 10/06/2020 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 01/25/2021 |
| | Data Release Frequency: Quarterly |

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

| | |
|---|--|
| Date of Government Version: 06/15/2020 | Source: EPA |
| Date Data Arrived at EDR: 06/22/2020 | Telephone: 800-424-9346 |
| Date Made Active in Reports: 09/17/2020 | Last EDR Contact: 09/22/2020 |
| Number of Days to Update: 87 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

| | |
|---|---|
| Date of Government Version: 06/15/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/22/2020 | Telephone: (415) 495-8895 |
| Date Made Active in Reports: 09/18/2020 | Last EDR Contact: 09/22/2020 |
| Number of Days to Update: 88 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

| | |
|---|---|
| Date of Government Version: 06/15/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/22/2020 | Telephone: (415) 495-8895 |
| Date Made Active in Reports: 09/18/2020 | Last EDR Contact: 09/22/2020 |
| Number of Days to Update: 88 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

| | |
|---|---|
| Date of Government Version: 06/15/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/22/2020 | Telephone: (415) 495-8895 |
| Date Made Active in Reports: 09/18/2020 | Last EDR Contact: 09/22/2020 |
| Number of Days to Update: 88 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

| | |
|---|---|
| Date of Government Version: 06/15/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/22/2020 | Telephone: (415) 495-8895 |
| Date Made Active in Reports: 09/18/2020 | Last EDR Contact: 09/22/2020 |
| Number of Days to Update: 88 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

| | |
|---|--|
| Date of Government Version: 05/15/2020 | Source: Department of the Navy |
| Date Data Arrived at EDR: 05/19/2020 | Telephone: 843-820-7326 |
| Date Made Active in Reports: 06/18/2020 | Last EDR Contact: 08/04/2020 |
| Number of Days to Update: 30 | Next Scheduled EDR Contact: 11/23/2020 |
| | Data Release Frequency: Varies |

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

| | |
|---|---|
| Date of Government Version: 02/13/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/20/2020 | Telephone: 703-603-0695 |
| Date Made Active in Reports: 05/15/2020 | Last EDR Contact: 08/24/2020 |
| Number of Days to Update: 85 | Next Scheduled EDR Contact: 12/07/2020 |
| | Data Release Frequency: Varies |

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

| | |
|---|---|
| Date of Government Version: 02/13/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/20/2020 | Telephone: 703-603-0695 |
| Date Made Active in Reports: 05/15/2020 | Last EDR Contact: 08/24/2020 |
| Number of Days to Update: 85 | Next Scheduled EDR Contact: 12/07/2020 |
| | Data Release Frequency: Varies |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/15/2020

Date Data Arrived at EDR: 06/22/2020

Date Made Active in Reports: 09/17/2020

Number of Days to Update: 87

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/22/2020

Next Scheduled EDR Contact: 01/04/2021

Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/27/2020

Date Data Arrived at EDR: 07/27/2020

Date Made Active in Reports: 10/08/2020

Number of Days to Update: 73

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/27/2020

Next Scheduled EDR Contact: 11/09/2020

Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/27/2020

Date Data Arrived at EDR: 07/27/2020

Date Made Active in Reports: 10/08/2020

Number of Days to Update: 73

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/27/2020

Next Scheduled EDR Contact: 11/09/2020

Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/11/2020

Date Data Arrived at EDR: 05/12/2020

Date Made Active in Reports: 07/27/2020

Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 08/10/2020

Next Scheduled EDR Contact: 11/23/2020

Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
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 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 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 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: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

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 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/24/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/14/2020 | Source: EPA, Region 5 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 312-886-7439 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

| | |
|---|--|
| Date of Government Version: 04/14/2020 | Source: EPA Region 4 |
| Date Data Arrived at EDR: 05/26/2020 | Telephone: 404-562-8677 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 78 | Next Scheduled EDR Contact: 11/02/2020 |
| | 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: 04/08/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 415-972-3372 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

| | |
|---|--|
| Date of Government Version: 04/14/2020 | Source: EPA Region 8 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 303-312-6271 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

| | |
|---|--|
| Date of Government Version: 04/15/2020 | Source: EPA Region 7 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 913-551-7003 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

| | |
|---|--|
| Date of Government Version: 04/08/2020 | Source: EPA Region 6 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 214-665-6597 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | 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: 06/08/2020 | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 866-480-1028 |
| Date Made Active in Reports: 08/19/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Varies |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

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: 02/01/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

| | |
|---|--|
| Date of Government Version: 06/08/2020 | Source: SWRCB |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 916-341-5851 |
| Date Made Active in Reports: 08/20/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 12/21/2020 |
| | 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: 05/26/2020 | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 916-327-7844 |
| Date Made Active in Reports: 08/20/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Varies |

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

| | |
|---|--|
| Date of Government Version: 07/06/2016 | Source: California Environmental Protection Agency |
| Date Data Arrived at EDR: 07/12/2016 | Telephone: 916-327-5092 |
| Date Made Active in Reports: 09/19/2016 | Last EDR Contact: 09/15/2020 |
| Number of Days to Update: 69 | Next Scheduled EDR Contact: 12/28/2020 |
| | Data Release Frequency: Varies |

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

| | |
|---|--|
| Date of Government Version: 04/14/2020 | Source: EPA Region 8 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 303-312-6137 |
| Date Made Active in Reports: 08/13/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 85 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

| | |
|---|--|
| Date of Government Version: 04/29/2020 | Source: EPA, Region 1 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 617-918-1313 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

| | |
|---|--|
| Date of Government Version: 04/08/2020 | Source: EPA Region 6 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 214-665-7591 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/03/2020 | Source: EPA Region 7 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 913-551-7003 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

| | |
|---|--|
| Date of Government Version: 04/14/2020 | Source: EPA Region 4 |
| Date Data Arrived at EDR: 05/26/2020 | Telephone: 404-562-9424 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 78 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

| | |
|---|--|
| Date of Government Version: 04/08/2020 | Source: EPA Region 9 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 415-972-3368 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/23/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/01/2020 |
| | Data Release Frequency: Varies |

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

| | |
|---|--|
| Date of Government Version: 04/14/2020 | Source: EPA Region 5 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 312-886-6136 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

| | |
|---|--|
| Date of Government Version: 04/14/2020 | Source: EPA Region 10 |
| Date Data Arrived at EDR: 05/20/2020 | Telephone: 206-553-2857 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Varies |

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

| | |
|---|--|
| Date of Government Version: 07/27/2015 | Source: EPA, Region 1 |
| Date Data Arrived at EDR: 09/29/2015 | Telephone: 617-918-1102 |
| Date Made Active in Reports: 02/18/2016 | Last EDR Contact: 09/16/2020 |
| Number of Days to Update: 142 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Varies |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

| | |
|---|--|
| Date of Government Version: 03/20/2008 | Source: EPA, Region 7 |
| Date Data Arrived at EDR: 04/22/2008 | Telephone: 913-551-7365 |
| Date Made Active in Reports: 05/19/2008 | Last EDR Contact: 04/20/2009 |
| Number of Days to Update: 27 | Next Scheduled EDR Contact: 07/20/2009 |
| | Data Release Frequency: Varies |

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: 07/27/2020 | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 07/27/2020 | Telephone: 916-323-3400 |
| Date Made Active in Reports: 10/08/2020 | Last EDR Contact: 07/27/2020 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 11/09/2020 |
| | Data Release Frequency: Quarterly |

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

| | |
|---|---|
| Date of Government Version: 06/22/2020 | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 06/22/2020 | Telephone: 916-323-7905 |
| Date Made Active in Reports: 09/04/2020 | Last EDR Contact: 09/22/2020 |
| Number of Days to Update: 74 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

| | |
|---|---|
| Date of Government Version: 06/01/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/02/2020 | Telephone: 202-566-2777 |
| Date Made Active in Reports: 06/09/2020 | Last EDR Contact: 09/15/2020 |
| Number of Days to Update: 7 | Next Scheduled EDR Contact: 12/28/2020 |
| | Data Release Frequency: Semi-Annually |

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/04/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
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: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

| | |
|---|---|
| Date of Government Version: 03/18/2020 | Source: Drug Enforcement Administration |
| Date Data Arrived at EDR: 03/19/2020 | Telephone: 202-307-1000 |
| Date Made Active in Reports: 06/09/2020 | Last EDR Contact: 08/19/2020 |
| Number of Days to Update: 82 | Next Scheduled EDR Contact: 12/07/2020 |
| | Data Release Frequency: No Update Planned |

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

| | |
|---|---|
| Date of Government Version: 08/08/2005 | Source: Department of Toxic Substance Control |
| Date Data Arrived at EDR: 08/03/2006 | Telephone: 916-323-3400 |
| Date Made Active in Reports: 08/24/2006 | Last EDR Contact: 02/23/2009 |
| Number of Days to Update: 21 | Next Scheduled EDR Contact: 05/25/2009 |
| | Data Release Frequency: No Update Planned |

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

| | |
|---|--|
| Date of Government Version: 07/27/2020 | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 07/27/2020 | Telephone: 916-323-3400 |
| Date Made Active in Reports: 10/08/2020 | Last EDR Contact: 07/27/2020 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 11/09/2020 |
| | Data Release Frequency: Quarterly |

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

| | |
|---|--|
| Date of Government Version: 06/30/2019 | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 05/28/2020 | Telephone: 916-255-6504 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 10/01/2020 |
| Number of Days to Update: 76 | Next Scheduled EDR Contact: 01/18/2021 |
| | Data Release Frequency: Varies |

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

| | |
|---|--|
| Date of Government Version: 07/20/2020 | Source: CalEPA |
| Date Data Arrived at EDR: 07/21/2020 | Telephone: 916-323-2514 |
| Date Made Active in Reports: 10/07/2020 | Last EDR Contact: 07/21/2020 |
| Number of Days to Update: 78 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Quarterly |

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 05/20/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/06/2020
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/17/2020
Next Scheduled EDR Contact: 12/07/2020
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/04/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 72

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

| | |
|---|--|
| Date of Government Version: 06/01/2020 | Source: DTSC and SWRCB |
| Date Data Arrived at EDR: 06/02/2020 | Telephone: 916-323-3400 |
| Date Made Active in Reports: 08/14/2020 | Last EDR Contact: 08/31/2020 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 12/14/2020 |
| | Data Release Frequency: Semi-Annually |

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

| | |
|---|---|
| Date of Government Version: 06/22/2020 | Source: U.S. Department of Transportation |
| Date Data Arrived at EDR: 06/23/2020 | Telephone: 202-366-4555 |
| Date Made Active in Reports: 09/17/2020 | Last EDR Contact: 09/22/2020 |
| Number of Days to Update: 86 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

| | |
|---|--|
| Date of Government Version: 06/30/2020 | Source: Office of Emergency Services |
| Date Data Arrived at EDR: 07/21/2020 | Telephone: 916-845-8400 |
| Date Made Active in Reports: 10/07/2020 | Last EDR Contact: 07/21/2020 |
| Number of Days to Update: 78 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Semi-Annually |

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

| | |
|---|---|
| Date of Government Version: 06/08/2020 | Source: State Water Quality Control Board |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 866-480-1028 |
| Date Made Active in Reports: 08/19/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Quarterly |

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

| | |
|---|---|
| Date of Government Version: 06/08/2020 | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 866-480-1028 |
| Date Made Active in Reports: 08/19/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Quarterly |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

| | |
|---|---|
| Date of Government Version: 06/06/2012 | Source: FirstSearch |
| Date Data Arrived at EDR: 01/03/2013 | Telephone: N/A |
| Date Made Active in Reports: 02/22/2013 | Last EDR Contact: 01/03/2013 |
| Number of Days to Update: 50 | Next Scheduled EDR Contact: N/A |
| | Data Release Frequency: No Update Planned |

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

| | |
|---|---|
| Date of Government Version: 06/15/2020 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/22/2020 | Telephone: (415) 495-8895 |
| Date Made Active in Reports: 09/18/2020 | Last EDR Contact: 09/22/2020 |
| Number of Days to Update: 88 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

| | |
|---|--|
| Date of Government Version: 05/13/2020 | Source: U.S. Army Corps of Engineers |
| Date Data Arrived at EDR: 05/18/2020 | Telephone: 202-528-4285 |
| Date Made Active in Reports: 08/12/2020 | Last EDR Contact: 08/13/2020 |
| Number of Days to Update: 86 | Next Scheduled EDR Contact: 11/30/2020 |
| | Data Release Frequency: Varies |

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

| | |
|---|--|
| Date of Government Version: 12/31/2005 | Source: USGS |
| Date Data Arrived at EDR: 11/10/2006 | Telephone: 888-275-8747 |
| Date Made Active in Reports: 01/11/2007 | Last EDR Contact: 10/13/2020 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: 01/25/2021 |
| | Data Release Frequency: Semi-Annually |

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

| | |
|---|--|
| Date of Government Version: 04/02/2018 | Source: U.S. Geological Survey |
| Date Data Arrived at EDR: 04/11/2018 | Telephone: 888-275-8747 |
| Date Made Active in Reports: 11/06/2019 | Last EDR Contact: 10/08/2020 |
| Number of Days to Update: 574 | Next Scheduled EDR Contact: 01/18/2021 |
| | Data Release Frequency: N/A |

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/05/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/06/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/18/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 79

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/14/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 79

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/31/2020
Date Data Arrived at EDR: 05/13/2020
Date Made Active in Reports: 08/03/2020
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/15/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

| | |
|---|--|
| Date of Government Version: 04/27/2020 | Source: EPA |
| Date Data Arrived at EDR: 05/06/2020 | Telephone: 202-564-6023 |
| Date Made Active in Reports: 06/09/2020 | Last EDR Contact: 10/01/2020 |
| Number of Days to Update: 34 | Next Scheduled EDR Contact: 11/16/2020 |
| | Data Release Frequency: Quarterly |

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

| | |
|---|--|
| Date of Government Version: 10/09/2019 | Source: EPA |
| Date Data Arrived at EDR: 10/11/2019 | Telephone: 202-566-0500 |
| Date Made Active in Reports: 12/20/2019 | Last EDR Contact: 10/02/2020 |
| Number of Days to Update: 70 | Next Scheduled EDR Contact: 01/18/2021 |
| | Data Release Frequency: Annually |

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

| | |
|---|---|
| Date of Government Version: 11/18/2016 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 11/23/2016 | Telephone: 202-564-2501 |
| Date Made Active in Reports: 02/10/2017 | Last EDR Contact: 10/01/2020 |
| Number of Days to Update: 79 | Next Scheduled EDR Contact: 01/18/2021 |
| | Data Release Frequency: Quarterly |

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

| | |
|---|---|
| Date of Government Version: 04/09/2009 | Source: EPA/Office of Prevention, Pesticides and Toxic Substances |
| Date Data Arrived at EDR: 04/16/2009 | Telephone: 202-566-1667 |
| Date Made Active in Reports: 05/11/2009 | Last EDR Contact: 08/18/2017 |
| Number of Days to Update: 25 | Next Scheduled EDR Contact: 12/04/2017 |
| | Data Release Frequency: No Update Planned |

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

| | |
|---|---|
| Date of Government Version: 04/09/2009 | Source: EPA |
| Date Data Arrived at EDR: 04/16/2009 | Telephone: 202-566-1667 |
| Date Made Active in Reports: 05/11/2009 | Last EDR Contact: 08/18/2017 |
| Number of Days to Update: 25 | Next Scheduled EDR Contact: 12/04/2017 |
| | Data Release Frequency: No Update Planned |

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

| | |
|---|--|
| Date of Government Version: 08/05/2020 | Source: Nuclear Regulatory Commission |
| Date Data Arrived at EDR: 08/10/2020 | Telephone: 301-415-7169 |
| Date Made Active in Reports: 10/08/2020 | Last EDR Contact: 07/20/2020 |
| Number of Days to Update: 59 | Next Scheduled EDR Contact: 11/02/2020 |
| | Data Release Frequency: Quarterly |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

| | |
|---|--|
| Date of Government Version: 12/31/2018 | Source: Department of Energy |
| Date Data Arrived at EDR: 12/04/2019 | Telephone: 202-586-8719 |
| Date Made Active in Reports: 01/15/2020 | Last EDR Contact: 09/04/2020 |
| Number of Days to Update: 42 | Next Scheduled EDR Contact: 12/14/2020 |
| | Data Release Frequency: Varies |

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

| | |
|---|---|
| Date of Government Version: 01/12/2017 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/05/2019 | Telephone: N/A |
| Date Made Active in Reports: 11/11/2019 | Last EDR Contact: 08/31/2020 |
| Number of Days to Update: 251 | Next Scheduled EDR Contact: 12/14/2020 |
| | Data Release Frequency: Varies |

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

| | |
|---|---|
| Date of Government Version: 09/13/2019 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 11/06/2019 | Telephone: 202-566-0517 |
| Date Made Active in Reports: 02/10/2020 | Last EDR Contact: 08/06/2020 |
| Number of Days to Update: 96 | Next Scheduled EDR Contact: 11/16/2020 |
| | Data Release Frequency: Varies |

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

| | |
|---|---|
| Date of Government Version: 07/01/2019 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 07/01/2019 | Telephone: 202-343-9775 |
| Date Made Active in Reports: 09/23/2019 | Last EDR Contact: 09/24/2020 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 01/11/2021 |
| | Data Release Frequency: Quarterly |

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

| | |
|---|---|
| Date of Government Version: 10/19/2006 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/01/2007 | Telephone: 202-564-2501 |
| Date Made Active in Reports: 04/10/2007 | Last EDR Contact: 12/17/2007 |
| Number of Days to Update: 40 | Next Scheduled EDR Contact: 03/17/2008 |
| | Data Release Frequency: No Update Planned |

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/27/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/21/2020
Number of Days to Update: 6

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
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: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2020
Next Scheduled EDR Contact: 01/18/2021
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: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/21/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 08/25/2020
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: 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: 05/01/2020
Date Data Arrived at EDR: 05/21/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 77

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 09/10/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 80

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2020
Date Data Arrived at EDR: 03/03/2020
Date Made Active in Reports: 05/28/2020
Number of Days to Update: 86

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/15/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/27/2020
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/28/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/06/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 07/26/2018 | Telephone: 202-564-0527 |
| Date Made Active in Reports: 10/05/2018 | Last EDR Contact: 08/19/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 12/07/2020 |
| | Data Release Frequency: Varies |

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

| | |
|---|--|
| Date of Government Version: 12/31/2018 | Source: Department of Defense |
| Date Data Arrived at EDR: 07/02/2020 | Telephone: 703-704-1564 |
| Date Made Active in Reports: 09/17/2020 | Last EDR Contact: 10/08/2020 |
| Number of Days to Update: 77 | Next Scheduled EDR Contact: 01/25/2021 |
| | Data Release Frequency: Varies |

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

| | |
|---|--|
| Date of Government Version: 05/18/2020 | Source: EPA |
| Date Data Arrived at EDR: 05/19/2020 | Telephone: 800-385-6164 |
| Date Made Active in Reports: 08/03/2020 | Last EDR Contact: 08/17/2020 |
| Number of Days to Update: 76 | Next Scheduled EDR Contact: 11/30/2020 |
| | Data Release Frequency: Quarterly |

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

| | |
|---|---|
| Date of Government Version: 01/01/1989 | Source: Department of Health Services |
| Date Data Arrived at EDR: 07/27/1994 | Telephone: 916-255-2118 |
| Date Made Active in Reports: 08/02/1994 | Last EDR Contact: 05/31/1994 |
| Number of Days to Update: 6 | Next Scheduled EDR Contact: N/A |
| | Data Release Frequency: No Update Planned |

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

| | |
|---|---|
| Date of Government Version: 06/22/2020 | Source: CAL EPA/Office of Emergency Information |
| Date Data Arrived at EDR: 06/22/2020 | Telephone: 916-323-3400 |
| Date Made Active in Reports: 09/04/2020 | Last EDR Contact: 09/23/2020 |
| Number of Days to Update: 74 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Quarterly |

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

| | |
|---|---|
| Date of Government Version: 05/04/2020 | Source: San Francisco County Department of Environmental Health |
| Date Data Arrived at EDR: 05/06/2020 | Telephone: 415-252-3896 |
| Date Made Active in Reports: 07/17/2020 | Last EDR Contact: 07/28/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 11/16/2020 |
| | Data Release Frequency: Varies |

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/14/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/04/2020
Date Data Arrived at EDR: 06/05/2020
Date Made Active in Reports: 08/17/2020
Number of Days to Update: 73

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/24/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/19/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 14

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/17/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/18/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

| | |
|---|--|
| Date of Government Version: 05/14/2020 | Source: California Integrated Waste Management Board |
| Date Data Arrived at EDR: 05/15/2020 | Telephone: 916-341-6066 |
| Date Made Active in Reports: 07/27/2020 | Last EDR Contact: 08/04/2020 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 11/23/2020 |
| | Data Release Frequency: Varies |

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

| | |
|---|--|
| Date of Government Version: 12/31/2019 | Source: California Environmental Protection Agency |
| Date Data Arrived at EDR: 04/15/2020 | Telephone: 916-255-1136 |
| Date Made Active in Reports: 07/02/2020 | Last EDR Contact: 10/05/2020 |
| Number of Days to Update: 78 | Next Scheduled EDR Contact: 01/18/2021 |
| | Data Release Frequency: Annually |

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

| | |
|---|--|
| Date of Government Version: 05/18/2020 | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 05/19/2020 | Telephone: 877-786-9427 |
| Date Made Active in Reports: 07/31/2020 | Last EDR Contact: 08/17/2020 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 11/30/2020 |
| | Data Release Frequency: Quarterly |

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

| | |
|---|--|
| Date of Government Version: 04/01/2001 | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 01/22/2009 | Telephone: 916-323-3400 |
| Date Made Active in Reports: 04/08/2009 | Last EDR Contact: 01/22/2009 |
| Number of Days to Update: 76 | Next Scheduled EDR Contact: N/A |
| | Data Release Frequency: No Update Planned |

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

| | |
|---|--|
| Date of Government Version: 05/18/2020 | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 05/18/2020 | Telephone: 916-323-3400 |
| Date Made Active in Reports: 07/31/2020 | Last EDR Contact: 08/17/2020 |
| Number of Days to Update: 74 | Next Scheduled EDR Contact: 11/30/2020 |
| | Data Release Frequency: Quarterly |

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

| | |
|---|--|
| Date of Government Version: 07/06/2020 | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 07/07/2020 | Telephone: 916-440-7145 |
| Date Made Active in Reports: 09/17/2020 | Last EDR Contact: 10/06/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 01/18/2021 |
| | Data Release Frequency: Quarterly |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

| | |
|---|--|
| Date of Government Version: 06/08/2020 | Source: Department of Conservation |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 916-322-1080 |
| Date Made Active in Reports: 08/19/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Quarterly |

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

| | |
|---|--|
| Date of Government Version: 05/28/2020 | Source: Department of Public Health |
| Date Data Arrived at EDR: 06/02/2020 | Telephone: 916-558-1784 |
| Date Made Active in Reports: 08/14/2020 | Last EDR Contact: 08/31/2020 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 12/14/2020 |
| | Data Release Frequency: Varies |

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

| | |
|---|---|
| Date of Government Version: 05/12/2020 | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 05/12/2020 | Telephone: 916-445-9379 |
| Date Made Active in Reports: 07/28/2020 | Last EDR Contact: 08/10/2020 |
| Number of Days to Update: 77 | Next Scheduled EDR Contact: 11/23/2020 |
| | Data Release Frequency: Quarterly |

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

| | |
|---|--|
| Date of Government Version: 06/01/2020 | Source: Department of Pesticide Regulation |
| Date Data Arrived at EDR: 06/02/2020 | Telephone: 916-445-4038 |
| Date Made Active in Reports: 08/14/2020 | Last EDR Contact: 08/31/2020 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 12/14/2020 |
| | Data Release Frequency: Quarterly |

PROC: Certified Processors Database

A listing of certified processors.

| | |
|---|--|
| Date of Government Version: 06/08/2020 | Source: Department of Conservation |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 916-323-3836 |
| Date Made Active in Reports: 08/19/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Quarterly |

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

| | |
|---|---|
| Date of Government Version: 08/21/2020 | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 08/21/2020 | Telephone: 916-445-3846 |
| Date Made Active in Reports: 08/27/2020 | Last EDR Contact: 08/20/2020 |
| Number of Days to Update: 6 | Next Scheduled EDR Contact: 12/28/2020 |
| | Data Release Frequency: No Update Planned |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

| | |
|---|--|
| Date of Government Version: 06/06/2020 | Source: Department of Conservation |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 916-445-2408 |
| Date Made Active in Reports: 08/20/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Varies |

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

| | |
|---|--|
| Date of Government Version: 06/08/2020 | Source: State Water Resource Control Board |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 866-480-1028 |
| Date Made Active in Reports: 08/19/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Varies |

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

| | |
|---|--|
| Date of Government Version: 11/19/2019 | Source: RWQCB, Central Valley Region |
| Date Data Arrived at EDR: 01/07/2020 | Telephone: 559-445-5577 |
| Date Made Active in Reports: 03/09/2020 | Last EDR Contact: 10/09/2020 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: 01/18/2021 |
| | Data Release Frequency: Varies |

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

| | |
|---|---|
| Date of Government Version: 06/19/2007 | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 06/20/2007 | Telephone: 916-341-5227 |
| Date Made Active in Reports: 06/29/2007 | Last EDR Contact: 08/11/2020 |
| Number of Days to Update: 9 | Next Scheduled EDR Contact: 11/30/2020 |
| | Data Release Frequency: No Update Planned |

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

| | |
|---|---|
| Date of Government Version: 07/03/2009 | Source: Los Angeles Water Quality Control Board |
| Date Data Arrived at EDR: 07/21/2009 | Telephone: 213-576-6726 |
| Date Made Active in Reports: 08/03/2009 | Last EDR Contact: 09/16/2020 |
| Number of Days to Update: 13 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: No Update Planned |

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

| | |
|---|---|
| Date of Government Version: 06/08/2020 | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 06/09/2020 | Telephone: 866-480-1028 |
| Date Made Active in Reports: 08/19/2020 | Last EDR Contact: 09/08/2020 |
| Number of Days to Update: 71 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Varies |

PROJECT: Project Sites (GEOTRACKER)

Projects sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/19/2020
Number of Days to Update: 71

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/28/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 04/09/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: 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: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 16

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
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: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/01/2020
Number of Days to Update: 13

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 06/17/2020
Date Data Arrived at EDR: 06/18/2020
Date Made Active in Reports: 09/02/2020
Number of Days to Update: 76

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 07/16/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 78

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 04/16/2020
Date Data Arrived at EDR: 04/20/2020
Date Made Active in Reports: 07/08/2020
Number of Days to Update: 79

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 08/13/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 05/07/2020
Date Data Arrived at EDR: 05/07/2020
Date Made Active in Reports: 07/23/2020
Number of Days to Update: 77

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 08/13/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 78

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 05/19/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 26

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/13/2020
Number of Days to Update: 75

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/05/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 73

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
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: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/21/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

LAKE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 04/20/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/14/2020
Number of Days to Update: 77

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List Cupa facility list

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 01/31/2020
Date Made Active in Reports: 04/09/2020
Number of Days to Update: 69

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 09/10/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/06/2020
Date Data Arrived at EDR: 07/10/2020
Date Made Active in Reports: 09/28/2020
Number of Days to Update: 80

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/13/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 78

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
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: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

| | |
|---|--|
| Date of Government Version: 06/01/2019 | Source: Los Angeles Fire Department |
| Date Data Arrived at EDR: 06/25/2019 | Telephone: 213-978-3800 |
| Date Made Active in Reports: 08/22/2019 | Last EDR Contact: 09/25/2020 |
| Number of Days to Update: 58 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Varies |

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

| | |
|---|---|
| Date of Government Version: 04/30/2012 | Source: Los Angeles County Department of Public Works |
| Date Data Arrived at EDR: 04/17/2019 | Telephone: 626-458-6973 |
| Date Made Active in Reports: 05/29/2019 | Last EDR Contact: 10/12/2020 |
| Number of Days to Update: 42 | Next Scheduled EDR Contact: 01/25/2021 |
| | Data Release Frequency: No Update Planned |

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

| | |
|---|--|
| Date of Government Version: 06/01/2019 | Source: Los Angeles Fire Department |
| Date Data Arrived at EDR: 06/25/2019 | Telephone: 213-978-3800 |
| Date Made Active in Reports: 08/22/2019 | Last EDR Contact: 09/25/2020 |
| Number of Days to Update: 58 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Varies |

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

| | |
|---|--|
| Date of Government Version: 06/01/2019 | Source: Los Angeles Fire Department |
| Date Data Arrived at EDR: 06/25/2019 | Telephone: 213-978-3800 |
| Date Made Active in Reports: 08/22/2019 | Last EDR Contact: 09/25/2020 |
| Number of Days to Update: 58 | Next Scheduled EDR Contact: 01/04/2021 |
| | Data Release Frequency: Varies |

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

| | |
|---|--|
| Date of Government Version: 03/25/2020 | Source: Community Health Services |
| Date Data Arrived at EDR: 04/14/2020 | Telephone: 323-890-7806 |
| Date Made Active in Reports: 07/01/2020 | Last EDR Contact: 10/09/2020 |
| Number of Days to Update: 78 | Next Scheduled EDR Contact: 01/25/2021 |
| | Data Release Frequency: Annually |

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

| | |
|---|--|
| Date of Government Version: 01/21/2017 | Source: City of El Segundo Fire Department |
| Date Data Arrived at EDR: 04/19/2017 | Telephone: 310-524-2236 |
| Date Made Active in Reports: 05/10/2017 | Last EDR Contact: 10/07/2020 |
| Number of Days to Update: 21 | Next Scheduled EDR Contact: 01/25/2021 |
| | Data Release Frequency: No Update Planned |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

| | |
|---|--|
| Date of Government Version: 04/22/2019 | Source: City of Long Beach Fire Department |
| Date Data Arrived at EDR: 04/23/2019 | Telephone: 562-570-2563 |
| Date Made Active in Reports: 06/27/2019 | Last EDR Contact: 10/13/2020 |
| Number of Days to Update: 65 | Next Scheduled EDR Contact: 02/01/2021 |
| | Data Release Frequency: Varies |

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

| | |
|---|--|
| Date of Government Version: 06/27/2019 | Source: City of Torrance Fire Department |
| Date Data Arrived at EDR: 07/30/2019 | Telephone: 310-618-2973 |
| Date Made Active in Reports: 10/02/2019 | Last EDR Contact: 10/05/2020 |
| Number of Days to Update: 64 | Next Scheduled EDR Contact: 02/01/2021 |
| | Data Release Frequency: Semi-Annually |

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

| | |
|---|--|
| Date of Government Version: 02/24/2020 | Source: Madera County Environmental Health |
| Date Data Arrived at EDR: 02/25/2020 | Telephone: 559-675-7823 |
| Date Made Active in Reports: 05/07/2020 | Last EDR Contact: 08/04/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 11/30/2020 |
| | Data Release Frequency: Varies |

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

| | |
|---|--|
| Date of Government Version: 09/26/2018 | Source: Public Works Department Waste Management |
| Date Data Arrived at EDR: 10/04/2018 | Telephone: 415-473-6647 |
| Date Made Active in Reports: 11/02/2018 | Last EDR Contact: 09/23/2020 |
| Number of Days to Update: 29 | Next Scheduled EDR Contact: 01/11/2021 |
| | Data Release Frequency: Semi-Annually |

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

| | |
|---|--|
| Date of Government Version: 07/28/2020 | Source: Merced County Environmental Health |
| Date Data Arrived at EDR: 07/30/2020 | Telephone: 209-381-1094 |
| Date Made Active in Reports: 07/31/2020 | Last EDR Contact: 07/24/2020 |
| Number of Days to Update: 1 | Next Scheduled EDR Contact: 11/30/2020 |
| | Data Release Frequency: Varies |

MONO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 05/15/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 16

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/23/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List CUPA facility list.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/13/2020
Number of Days to Update: 75

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/21/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Petroleum and non-petroleum spills.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/08/2020
Date Made Active in Reports: 07/24/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/08/2020
Date Made Active in Reports: 07/24/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/31/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2020
Date Data Arrived at EDR: 05/05/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/03/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 06/10/2020
Date Made Active in Reports: 08/24/2020
Number of Days to Update: 75

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 03/10/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 70

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/15/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 03/10/2020
Date Data Arrived at EDR: 03/11/2020
Date Made Active in Reports: 05/20/2020
Number of Days to Update: 70

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/10/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 04/24/2020
Date Data Arrived at EDR: 04/28/2020
Date Made Active in Reports: 07/13/2020
Number of Days to Update: 76

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/25/2020
Date Data Arrived at EDR: 02/26/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 71

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 06/01/2020
Date Data Arrived at EDR: 06/02/2020
Date Made Active in Reports: 08/14/2020
Number of Days to Update: 73

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/31/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/04/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 72

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/10/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

Date of Government Version: 05/08/2020
Date Data Arrived at EDR: 05/08/2020
Date Made Active in Reports: 08/03/2020
Number of Days to Update: 87

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/11/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/01/2020
Next Scheduled EDR Contact: 12/21/2020
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: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SANTA CLARA: Cupa Facility List Cupa facility list

Date of Government Version: 05/08/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/19/2020
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 04/22/2020
Date Data Arrived at EDR: 04/24/2020
Date Made Active in Reports: 05/07/2020
Number of Days to Update: 13

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/28/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
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: 08/11/2020
Next Scheduled EDR Contact: 11/30/2020
Data Release Frequency: Varies

SOLANO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 09/16/2020
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List

Cupa Facility list

Date of Government Version: 07/07/2020
Date Data Arrived at EDR: 07/08/2020
Date Made Active in Reports: 09/25/2020
Number of Days to Update: 79

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2020
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 02/04/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 05/26/2020
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 77

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/25/2020
Next Scheduled EDR Contact: 12/14/2020
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA TEHAMA: CUPA Facility List Cupa facilities

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 73

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/11/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List Cupa facility list

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 05/14/2020
Date Data Arrived at EDR: 05/15/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 73

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/06/2020
Next Scheduled EDR Contact: 11/16/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 07/10/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/20/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/23/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
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: 08/04/2020
Next Scheduled EDR Contact: 11/23/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/10/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 77

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/20/2020
Next Scheduled EDR Contact: 11/02/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2020
Date Data Arrived at EDR: 06/09/2020
Date Made Active in Reports: 08/20/2020
Number of Days to Update: 72

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/08/2020
Next Scheduled EDR Contact: 12/21/2020
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/23/2020
Date Data Arrived at EDR: 06/29/2020
Date Made Active in Reports: 09/15/2020
Number of Days to Update: 78

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 79

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/04/2020
Next Scheduled EDR Contact: 11/09/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/12/2020 | Source: Department of Energy & Environmental Protection |
| Date Data Arrived at EDR: 05/12/2020 | Telephone: 860-424-3375 |
| Date Made Active in Reports: 07/27/2020 | Last EDR Contact: 08/10/2020 |
| Number of Days to Update: 76 | Next Scheduled EDR Contact: 11/23/2020 |
| | Data Release Frequency: No Update Planned |

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

| | |
|---|--|
| Date of Government Version: 12/31/2018 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 04/10/2019 | Telephone: N/A |
| Date Made Active in Reports: 05/16/2019 | Last EDR Contact: 10/09/2020 |
| Number of Days to Update: 36 | Next Scheduled EDR Contact: 01/18/2021 |
| | Data Release Frequency: Annually |

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

| | |
|---|--|
| Date of Government Version: 01/01/2019 | Source: Department of Environmental Conservation |
| Date Data Arrived at EDR: 04/29/2020 | Telephone: 518-402-8651 |
| Date Made Active in Reports: 07/10/2020 | Last EDR Contact: 07/31/2020 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 11/09/2020 |
| | Data Release Frequency: Quarterly |

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

| | |
|---|--|
| Date of Government Version: 06/30/2018 | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 07/19/2019 | Telephone: 717-783-8990 |
| Date Made Active in Reports: 09/10/2019 | Last EDR Contact: 10/07/2020 |
| Number of Days to Update: 53 | Next Scheduled EDR Contact: 01/25/2021 |
| | Data Release Frequency: Annually |

RI MANIFEST: Manifest information

Hazardous waste manifest information

| | |
|---|--|
| Date of Government Version: 12/31/2018 | Source: Department of Environmental Management |
| Date Data Arrived at EDR: 10/02/2019 | Telephone: 401-222-2797 |
| Date Made Active in Reports: 12/10/2019 | Last EDR Contact: 08/11/2020 |
| Number of Days to Update: 69 | Next Scheduled EDR Contact: 11/30/2020 |
| | Data Release Frequency: Annually |

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

| | |
|---|---|
| Date of Government Version: 05/31/2018 | Source: Department of Natural Resources |
| Date Data Arrived at EDR: 06/19/2019 | Telephone: N/A |
| Date Made Active in Reports: 09/03/2019 | Last EDR Contact: 09/02/2020 |
| Number of Days to Update: 76 | Next Scheduled EDR Contact: 12/21/2020 |
| | Data Release Frequency: Annually |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

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

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HANSON RANCH
251 HANSON LANE
BRENTWOOD, CA 94513

TARGET PROPERTY COORDINATES

| | |
|--------------------------------|------------------------------|
| Latitude (North): | 37.960023 - 37° 57' 36.08" |
| Longitude (West): | 121.690289 - 121° 41' 25.04" |
| Universal Transverse Mercator: | Zone 10 |
| UTM X (Meters): | 615056.9 |
| UTM Y (Meters): | 4201983.0 |
| Elevation: | 52 ft. above sea level |

USGS TOPOGRAPHIC MAP

| | |
|----------------------|-----------------------|
| Target Property Map: | 5640376 BRENTWOOD, 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).

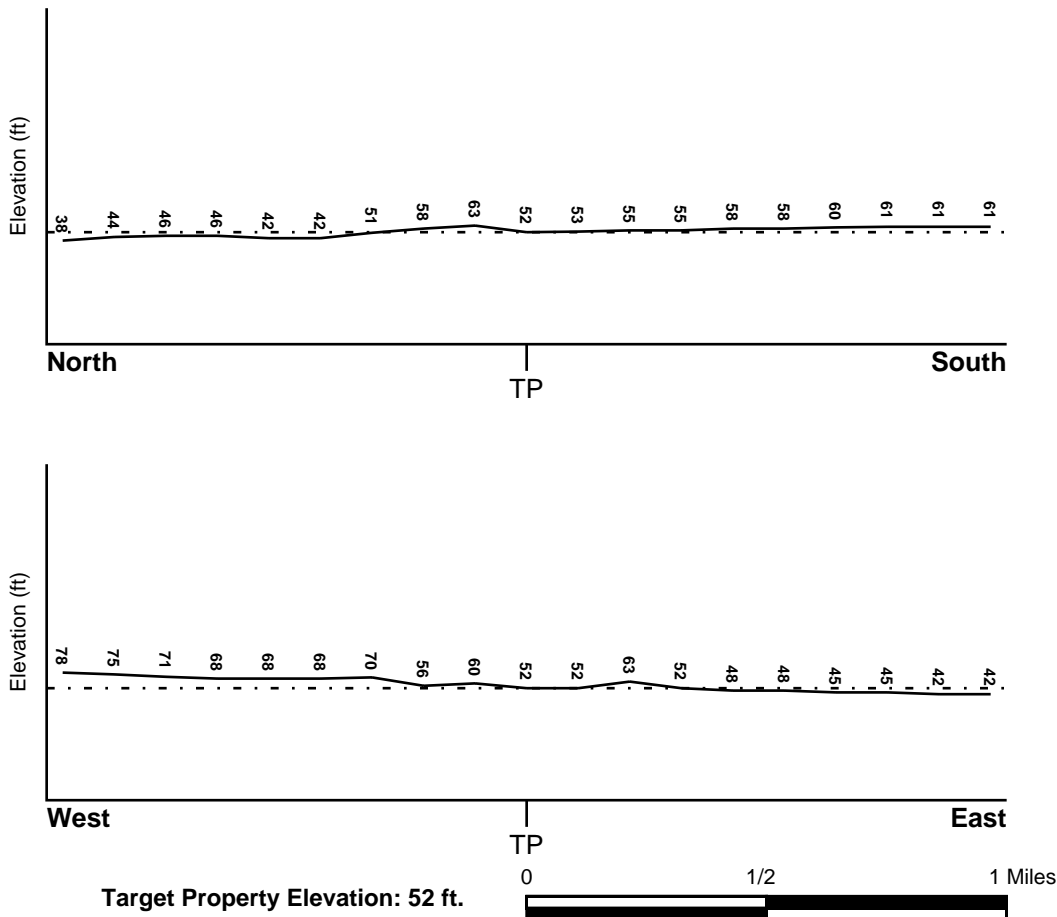
TOPOGRAPHIC INFORMATION

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 East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

| <u>Flood Plain Panel at Target Property</u> | <u>FEMA Source Type</u> |
|---|-------------------------|
| 06013C0354F | FEMA FIRM Flood data |
| <u>Additional Panels in search area:</u> | <u>FEMA Source Type</u> |
| 06013C0360F | FEMA FIRM Flood data |
| 06013C0355F | FEMA FIRM Flood data |

NATIONAL WETLAND INVENTORY

| <u>NWI Quad at Target Property</u> | <u>NWI Electronic Data Coverage</u> |
|------------------------------------|--|
| BRENTWOOD | YES - refer to the Overview Map and Detail Map |

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

| | |
|----------------|------------|
| Search Radius: | 1.25 miles |
| Status: | Not found |

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| <u>MAP ID</u> | <u>LOCATION FROM TP</u> | <u>GENERAL DIRECTION GROUNDWATER FLOW</u> |
|---------------|-------------------------|---|
| Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

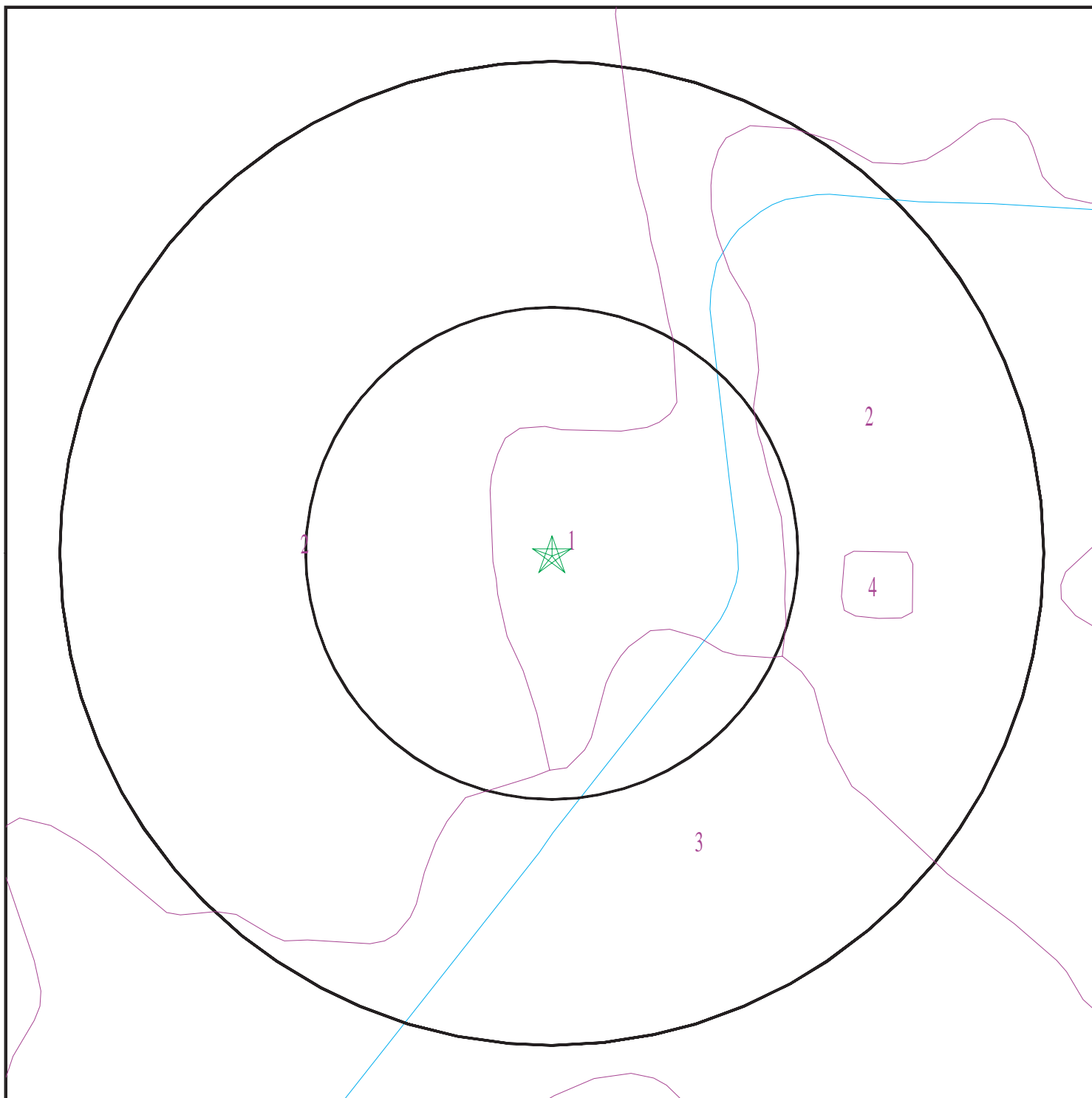
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 06226122.2r



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Hanson Ranch
ADDRESS: 251 Hanson Lane
Brentwood CA 94513
LAT/LONG: 37.960023 / 121.690289

CLIENT: Engeo Inc.
CONTACT: Adrianna Lundberg
INQUIRY #: 06226122.2r
DATE: October 14, 2020 12:39 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: SORRENTO

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|--------------------|--|--|--|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 18 inches | silty clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 |
| 2 | 18 inches | 40 inches | silty clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 |
| 3 | 40 inches | 59 inches | sand | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 141 | Max: 8.4 Min: 7.4 |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: DELHI

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively 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 | | | | | | | |
|------------------------|----------|-----------|--------------------|--|--|---|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 5 inches | sand | Granular materials (35 pct. or less passing No. 200), Fine Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 42 | Max: 7.8 Min: 6.6 |
| 2 | 5 inches | 59 inches | sand | Granular materials (35 pct. or less passing No. 200), Fine Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 42 | Max: 7.8 Min: 6.6 |

Soil Map ID: 3

Soil Component Name: RINCON

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|--------------------|--|---|--|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 11 inches | clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 4 Min: 1.4 | Max: 8.4 Min: 7.9 |
| 2 | 11 inches | 29 inches | clay | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 4 Min: 1.4 | Max: 8.4 Min: 7.9 |
| 3 | 29 inches | 59 inches | silty clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. | Max: 4 Min: 1.4 | Max: 8.4 Min: 7.9 |

Soil Map ID: 4

Soil Component Name: Water

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

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

| <u>DATABASE</u> | <u>SEARCH DISTANCE (miles)</u> |
|------------------|--------------------------------|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

FEDERAL USGS WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-------------------------|
| B6 | USGS40000186275 | 1/4 - 1/2 Mile WSW |
| B8 | USGS40000186272 | 1/4 - 1/2 Mile WSW |
| 14 | USGS40000186270 | 1/2 - 1 Mile WSW |
| 17 | USGS40000186322 | 1/2 - 1 Mile NNW |
| 18 | USGS40000186336 | 1/2 - 1 Mile NNE |
| 20 | USGS40000186246 | 1/2 - 1 Mile SW |

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------------|----------------|-------------------------|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-------------------------|
| 1 | 62 | 1/8 - 1/4 Mile WNW |
| A2 | CADWR8000036812 | 1/4 - 1/2 Mile WNW |
| A3 | CADWR8000036810 | 1/4 - 1/2 Mile WNW |
| A4 | CADWR8000036811 | 1/4 - 1/2 Mile WNW |
| 5 | 63 | 1/4 - 1/2 Mile West |
| 7 | 78 | 1/4 - 1/2 Mile SSW |
| 9 | 64 | 1/4 - 1/2 Mile West |
| 10 | 77 | 1/4 - 1/2 Mile WNW |
| 11 | 81 | 1/2 - 1 Mile SW |
| C12 | 75 | 1/2 - 1 Mile NNW |
| 13 | 76 | 1/2 - 1 Mile NNW |
| 15 | CADWR8000036821 | 1/2 - 1 Mile ENE |
| C16 | 1786 | 1/2 - 1 Mile NNW |
| 19 | 1690 | 1/2 - 1 Mile NNW |
| 21 | 80 | 1/2 - 1 Mile West |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

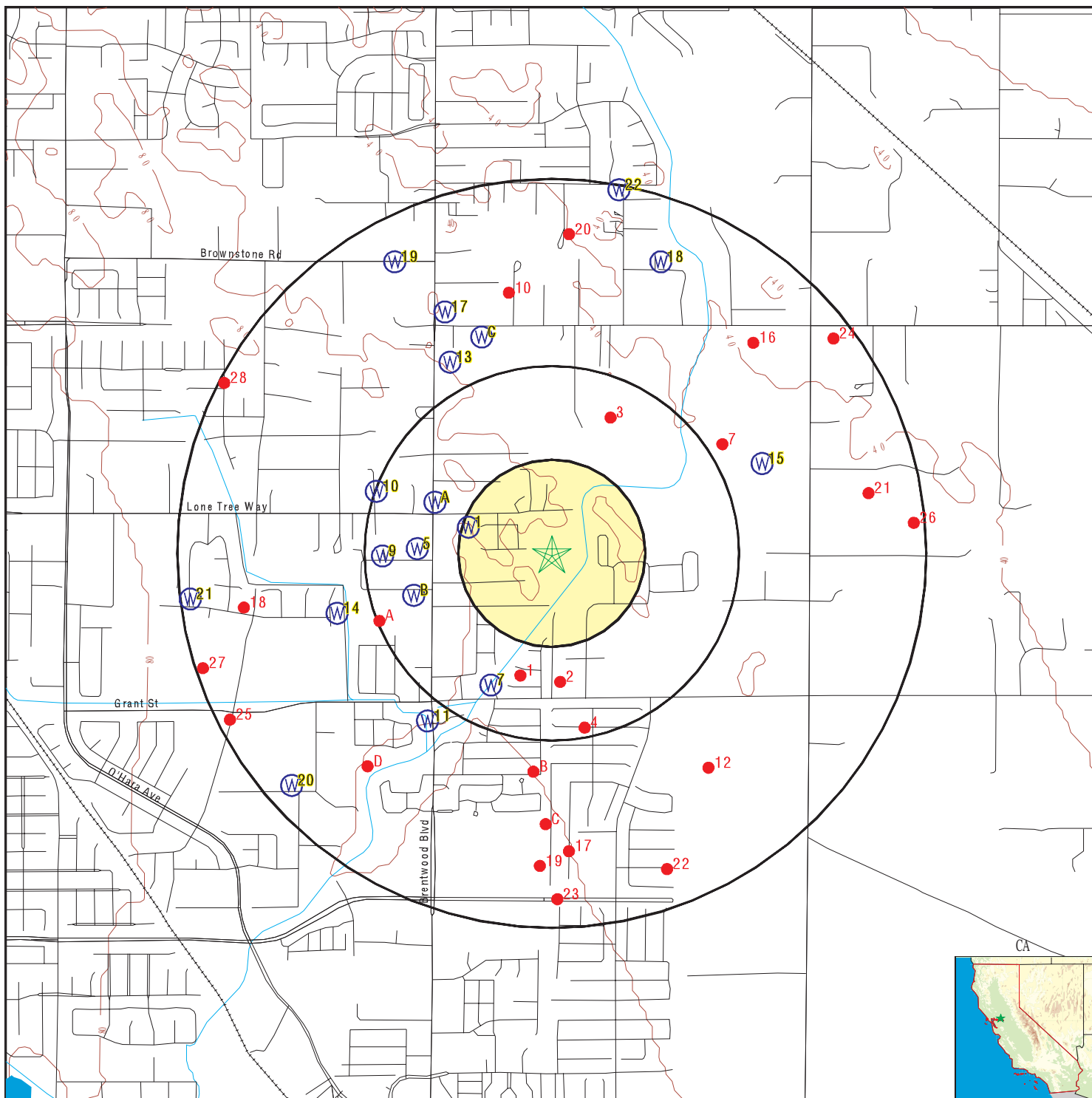
| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-----------------------------|
| 22 | CADWR8000036848 | 1/2 - 1 Mile North |

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

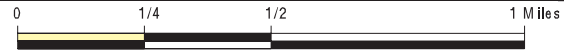
| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-----------------------------|
| 1 | CAOG13000215358 | 1/4 - 1/2 Mile SSW |
| 2 | CAOG13000215353 | 1/4 - 1/2 Mile South |
| 3 | CAOG13000007496 | 1/4 - 1/2 Mile NNE |
| 4 | CAOG13000215359 | 1/4 - 1/2 Mile South |
| A5 | CAOG13000215363 | 1/4 - 1/2 Mile WSW |
| A6 | CAOG13000007404 | 1/2 - 1 Mile WSW |
| 7 | CAOG13000007475 | 1/2 - 1 Mile ENE |
| B8 | CAOG13000215356 | 1/2 - 1 Mile South |
| B9 | CAOG13000215352 | 1/2 - 1 Mile South |
| 10 | CAOG13000007421 | 1/2 - 1 Mile North |
| C11 | CAOG13000215355 | 1/2 - 1 Mile South |
| 12 | CAOG13000007414 | 1/2 - 1 Mile SE |
| C13 | CAOG13000215354 | 1/2 - 1 Mile South |
| D14 | CAOG13000215365 | 1/2 - 1 Mile SW |
| D15 | CAOG13000215366 | 1/2 - 1 Mile SW |
| 16 | CAOG13000007462 | 1/2 - 1 Mile NE |
| 17 | CAOG13000215364 | 1/2 - 1 Mile South |
| 18 | CAOG13000215357 | 1/2 - 1 Mile West |
| 19 | CAOG13000215361 | 1/2 - 1 Mile South |
| 20 | CAOG13000007448 | 1/2 - 1 Mile North |
| 21 | CAOG13000129471 | 1/2 - 1 Mile East |
| 22 | CAOG13000007434 | 1/2 - 1 Mile SSE |
| 23 | CAOG13000215362 | 1/2 - 1 Mile South |
| 24 | CAOG13000129470 | 1/2 - 1 Mile NE |
| 25 | CAOG13000007493 | 1/2 - 1 Mile WSW |
| 26 | CAOG13000129468 | 1/2 - 1 Mile East |
| 27 | CAOG13000007308 | 1/2 - 1 Mile WSW |
| 28 | CAOG13000007307 | 1/2 - 1 Mile WNW |

PHYSICAL SETTING SOURCE MAP - 06226122.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



| | |
|--|--|
| <p>SITE NAME: Hanson Ranch ADDRESS: 251 Hanson Lane Brentwood CA 94513 LAT/LONG: 37.960023 / 121.690289</p> | <p>CLIENT: Engeo Inc. CONTACT: Adrianna Lundberg INQUIRY #: 06226122.2r DATE: October 14, 2020 12:39 pm</p> |
|--|--|

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
WNW
1/8 - 1/4 Mile
Higher

CA WELLS 62

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 62 | Prim sta c: | 01N/02E-01J03 M |
| Frds no: | 0707524001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0707524 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375740.0 | Longitude: | 1214136.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 0707524 | System nam: | Short Stop #151 |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

A2
WNW
1/4 - 1/2 Mile
Higher

CA WELLS CADWR8000036812

| | | | |
|------------------------|--|-------------|-------------|
| State Well #: | 01N03E06E997M | Station ID: | 48666 |
| Well Name: | #14 MW-154 | Well Use: | Observation |
| Well Type: | Part of a nested/multi-completion well | | |
| Well Depth: | 154 | Basin Name: | Tracy |
| Well Completion Rpt #: | Not Reported | | |

A3
WNW
1/4 - 1/2 Mile
Higher

CA WELLS CADWR8000036810

| | | | |
|------------------------|--|-------------|-------------|
| State Well #: | 01N03E06E999M | Station ID: | 48664 |
| Well Name: | #14 MW-324 | Well Use: | Observation |
| Well Type: | Part of a nested/multi-completion well | | |
| Well Depth: | 324 | Basin Name: | Tracy |
| Well Completion Rpt #: | Not Reported | | |

A4
WNW
1/4 - 1/2 Mile
Higher

CA WELLS CADWR8000036811

| | | | |
|---------------|--|-------------|-------------|
| State Well #: | 01N03E06E998M | Station ID: | 48665 |
| Well Name: | #14 MW-240 | Well Use: | Observation |
| Well Type: | Part of a nested/multi-completion well | | |
| Well Depth: | 240 | Basin Name: | Tracy |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Completion Rpt #: Not Reported

**5
West
1/4 - 1/2 Mile
Higher**

CA WELLS 63

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 63 | Prim sta c: | 01N/02E-01J04 M |
| Frds no: | 0707520001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0707520 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375737.0 | Longitude: | 1214145.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|-------------|--------------|-------------|------------------------------|
| System no: | 0707520 | System nam: | Dominguez Small Water System |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

**B6
WSW
1/4 - 1/2 Mile
Higher**

FED USGS USGS40000186275

| | | | |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 001N002E01J002M | Type: | Well |
| Description: | Not Reported | HUC: | 18040003 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Central Valley aquifer system | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19780528 | Well Depth: | 134 |
| Well Depth Units: | ft | Well Hole Depth: | 136 |
| Well Hole Depth Units: | ft | | |

**7
SSW
1/4 - 1/2 Mile
Higher**

CA WELLS 78

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 78 | Prim sta c: | 01N/03E-06N01 M |
| Frds no: | 0710004006 | County: | 07 |
| District: | 04 | User id: | ENG |
| System no: | 0710004 | Water type: | G |
| Source nam: | WELL 06 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375718.0 | Longitude: | 1214132.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|-------------------|
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 0710004 | System nam: | City Of Brentwood |
| Hqname: | Not Reported | Address: | 708 THIRD STREET |
| City: | BRENTWOOD | State: | Not Reported |
| Zip: | 94513 | Zip ext: | Not Reported |
| Pop serv: | 8255 | Connection: | 2167 |
| Area serve: | BRENTWOOD | | |
| Sample date: | 21-FEB-18 | Finding: | 5.3 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 13-DEC-17 | Finding: | 6.4 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 12-DEC-17 | Finding: | 237. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 480. |
| Chemical: | HARDNESS (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 5.7 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 24-AUG-17 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 1.4 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 1100. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 6.9 |
| Chemical: | GROSS ALPHA | Report units: | PCI/L |
| Dir: | 3. | | |
| Sample date: | 24-AUG-17 | Finding: | 1.7 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 5.6 |
| Chemical: | GROSS BETA | Report units: | PCI/L |
| Dir: | 4. | | |
| Sample date: | 24-AUG-17 | Finding: | 1.3 |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 1.3 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Sample date: | 24-AUG-17 | Finding: | 1.2 |
| Chemical: | GROSS BETA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 1700. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 8. |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 220. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 270. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 5.7 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 24-AUG-17 | Finding: | 110. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 51. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 180. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 4.1 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 220. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 24-AUG-17 | Finding: | 290. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 24-AUG-17 | Finding: | 0.35 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 24-AUG-17 | Finding: | 2.6 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dir: | 2. | | |
| Sample date: | 24-AUG-17 | Finding: | 1300. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 24-AUG-17 | Finding: | 8.4 |
| Chemical: | VANADIUM | Report units: | UG/L |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Dir: | 3. | | |
| Sample date: | 16-AUG-17 | Finding: | 6.1 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 16-AUG-17 | Finding: | 6.1 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 10-MAY-17 | Finding: | 5.8 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 25-JAN-17 | Finding: | 2.9 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 07-DEC-16 | Finding: | 5.6 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 14-SEP-16 | Finding: | 5.4 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 31-MAY-16 | Finding: | 1400. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 31-MAY-16 | Finding: | 7.2 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dir: | 3. | | |
| Sample date: | 31-MAY-16 | Finding: | 5.5 |
| Chemical: | GROSS ALPHA | Report units: | PCI/L |
| Dir: | 3. | | |
| Sample date: | 31-MAY-16 | Finding: | 0.24 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 4.5 |
| Chemical: | GROSS BETA | Report units: | PCI/L |
| Dir: | 4. | | |
| Sample date: | 31-MAY-16 | Finding: | 1.2 |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 1.3 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Sample date: | 31-MAY-16 | Finding: | 5.7 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 31-MAY-16 | Finding: | 1.5 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 0.99 |
| Chemical: | GROSS BETA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 7.9 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 210. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 260. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 5.7 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 31-MAY-16 | Finding: | 490. |
| Chemical: | HARDNESS (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 110. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 52. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 180. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 4.1 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 220. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 300. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 31-MAY-16 | Finding: | 0.33 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|-------|
| Dir: | 0.1 | | |
| Sample date: | 31-MAR-16 | Finding: | 5.5 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 31-MAR-16 | Finding: | 5.5 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 18-NOV-15 | Finding: | 9.6 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 26-AUG-15 | Finding: | 24.8 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 13-MAY-15 | Finding: | 23.6 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 14-APR-15 | Finding: | 460. |
| Chemical: | HARDNESS (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 100. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 51. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 180. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 3.9 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 230. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 300. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 14-APR-15 | Finding: | 0.35 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 14-APR-15 | Finding: | 1300. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 14-APR-15 | Finding: | 7.9 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dir: | 3. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Sample date: | 14-APR-15 | Finding: | 9.6 |
| Chemical: | GROSS ALPHA | Report units: | PCI/L |
| Dir: | 3. | | |
| Sample date: | 14-APR-15 | Finding: | 0.28 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 6.2 |
| Chemical: | GROSS BETA | Report units: | PCI/L |
| Dir: | 4. | | |
| Sample date: | 14-APR-15 | Finding: | 1.4 |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 1100. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 1.4 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 23. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 14-APR-15 | Finding: | 6.2e-002 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 14-APR-15 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 5300. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 14-APR-15 | Finding: | 1.3 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 1.2 |
| Chemical: | GROSS BETA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 260. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 220. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 8. |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-----------------------------|---------------|--------------|
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 6.9 |
| Chemical: | GROSS ALPHA | Report units: | PCI/L |
| Dir: | 3. | | |
| Sample date: | 19-JUN-14 | Finding: | 5100. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 19-JUN-14 | Finding: | 0.6 |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 2.1 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 1.8 |
| Chemical: | GROSS BETA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 1700. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 7.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 190. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 230. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 460. |
| Chemical: | HARDNESS (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 100. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 50. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 170. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 3.8 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 220. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Sample date: | 19-JUN-14 | Finding: | 290. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 19-JUN-14 | Finding: | 0.34 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 19-JUN-14 | Finding: | 2.4 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dir: | 2. | | |
| Sample date: | 19-JUN-14 | Finding: | 1300. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 19-JUN-14 | Finding: | 8.6 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dir: | 3. | | |
| Sample date: | 19-JUN-14 | Finding: | 1100. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 1.2 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 23. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 19-JUN-14 | Finding: | 6000. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 6.8e-002 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 19-JUN-14 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 19-JUN-14 | Finding: | 0.9 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 1700. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 5300. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 29-MAY-13 | Finding: | 210. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 250. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|---------------------------------------|---------------|--------------|
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 490. |
| Chemical: | HARDNESS (TOTAL) AS CaCO ₃ | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 110. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 53. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 190. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 4. |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 230. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 300. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 29-MAY-13 | Finding: | 0.32 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 29-MAY-13 | Finding: | 1100. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 23. |
| Chemical: | NITRATE (AS NO ₃) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 29-MAY-13 | Finding: | 0.12 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 29-MAY-13 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 7.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 4100. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 16-MAY-12 | Finding: | 8.1 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|---|---------------|--------------|
| Sample date: | 16-MAY-12 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO ₃ | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 250. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 2.2 |
| Chemical: | CARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 420. |
| Chemical: | HARDNESS (TOTAL) AS CaCO ₃ | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 92. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 46. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 170. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 3.7 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 230. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 280. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 16-MAY-12 | Finding: | 0.36 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 16-MAY-12 | Finding: | 980. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 0.12 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 16-MAY-12 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 16-MAY-12 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B8
WSW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000186272

| | | | |
|------------------------|--------------------------------------|------------------------------|--------------|
| Organization ID: | USGS-CA | Type: | Well |
| Organization Name: | USGS California Water Science Center | HUC: | 18040003 |
| Monitor Location: | 001N002E01R001M | Drainage Area Units: | Not Reported |
| Description: | Not Reported | Contrib Drainage Area Units: | Not Reported |
| Drainage Area: | Not Reported | Aquifer Type: | Not Reported |
| Contrib Drainage Area: | Not Reported | Well Depth: | 152 |
| Aquifer: | Central Valley aquifer system | Well Hole Depth: | 180 |
| Formation Type: | Not Reported | | |
| Construction Date: | 19780528 | | |
| Well Depth Units: | ft | | |
| Well Hole Depth Units: | ft | | |

9
West
1/4 - 1/2 Mile
Higher

CA WELLS 64

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 64 | Prim sta c: | 01N/02E-01J05 M |
| Frds no: | 0706001001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0706001 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375736.0 | Longitude: | 1214151.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 0706001 | System nam: | Chakedis Water System |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

10
WNW
1/4 - 1/2 Mile
Higher

CA WELLS 77

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 77 | Prim sta c: | 01N/03E-06E02 M |
| Frds no: | 0707510001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0707510 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375745.0 | Longitude: | 1214152.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------|-------------|-----------------------------|
| System no: | 0707510 | System nam: | Altes Residential Home Care |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

**11
SW
1/2 - 1 Mile
Higher**

CA WELLS 81

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 81 | Prim sta c: | 01N/03E-07D01 M |
| Frds no: | 0707578001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0707578 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375713.0 | Longitude: | 1214143.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|-------------|--------------|-------------|--------------|
| System no: | 0707578 | System nam: | Davis Camp |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

**C12
NNW
1/2 - 1 Mile
Higher**

CA WELLS 75

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 75 | Prim sta c: | 01N/03E-06D02 M |
| Frds no: | 0707591001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0707591 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375805.0 | Longitude: | 1214133.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|-------------|--------------|-------------|-----------------------|
| System no: | 0707591 | System nam: | Blue Tip Trailer Park |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

13
NNW
1/2 - 1 Mile
Higher

CA WELLS 76

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 76 | Prim sta c: | 01N/03E-06D03 M |
| Frds no: | 0707513001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0707513 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375803.0 | Longitude: | 1214139.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 0707513 | System nam: | Maeda Apts. |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

14
WSW
1/2 - 1 Mile
Higher

FED USGS USGS40000186270

| | | | |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 001N002E01R002M | Type: | Well |
| Description: | Not Reported | HUC: | 18040003 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Central Valley aquifer system | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19780528 | Well Depth: | 159 |
| Well Depth Units: | ft | Well Hole Depth: | 164 |
| Well Hole Depth Units: | ft | | |

15
ENE
1/2 - 1 Mile
Lower

CA WELLS CADWR8000036821

| | | | |
|---------------|---------------|------------------------|--------------|
| State Well #: | 01N03E06H999M | Station ID: | 48684 |
| Well Name: | MW 5-37 | Well Use: | Observation |
| Well Type: | Single Well | Well Depth: | 20 |
| Basin Name: | Tracy | Well Completion Rpt #: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C16
NNW
1/2 - 1 Mile
Higher

CA WELLS 1786

| | | | |
|-------------|--------------|-------------|----------------------------|
| Seq: | 1786 | Prim sta c: | 02N/03E-31N02 M |
| Frds no: | 0707552001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0707552 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375808.0 | Longitude: | 1214134.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 0707552 | System nam: | Smith & Hager Water System |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

17
NNW
1/2 - 1 Mile
Higher

FED USGS USGS40000186322

| | | | |
|---|--------------------------------------|-----------------------------|--------------|
| Organization ID: | USGS-CA | Type: | Well |
| Organization Name: | USGS California Water Science Center | HUC: | 18040003 |
| Monitor Location: | 002N003E31N001M | Drainage Area Units: | Not Reported |
| Description: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Drainage Area: | Not Reported | | |
| Contrib Drainage Area: | Not Reported | | |
| Aquifer: | Central Valley aquifer system | Aquifer Type: | Not Reported |
| Formation Type: | Not Reported | Well Depth: | 93 |
| Construction Date: | 19780309 | Well Hole Depth: | 132 |
| Well Depth Units: | ft | | |
| Well Hole Depth Units: | ft | | |
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1978-03-09 |
| Feet below surface: | 42.00 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

18
NNE
1/2 - 1 Mile
Lower

FED USGS USGS40000186336

| | | | |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID: | USGS-CA | Type: | Well |
| Organization Name: | USGS California Water Science Center | HUC: | 18040003 |
| Monitor Location: | 002N003E31Q001M | Drainage Area Units: | Not Reported |
| Description: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Drainage Area: | Not Reported | | |
| Contrib Drainage Area: | Not Reported | | |
| Aquifer: | Central Valley aquifer system | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|------------------------|--------------|------------------|--------------|
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19740625 | Well Depth: | 67 |
| Well Depth Units: | ft | Well Hole Depth: | 93 |
| Well Hole Depth Units: | ft | | |

**19
NNW
1/2 - 1 Mile
Lower**

CA WELLS 1690

| | | | |
|-------------|--------------|-------------|-----------------------|
| Seq: | 1690 | Prim sta c: | 02N/02E-36R01 M |
| Frds no: | 0706003001 | County: | 07 |
| District: | 37 | User id: | 07C |
| System no: | 0706003 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375817.0 | Longitude: | 1214149.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|-------------|--------------|-------------|--------------------|
| System no: | 0706003 | System nam: | Brown Water System |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

**20
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000186246

| | | | |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID: | USGS-CA | Type: | Well |
| Organization Name: | USGS California Water Science Center | HUC: | 18040003 |
| Monitor Location: | 001N002E12G001M | Drainage Area Units: | Not Reported |
| Description: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Drainage Area: | Not Reported | | |
| Contrib Drainage Area: | Not Reported | | |
| Aquifer: | Central Valley aquifer system | Aquifer Type: | Not Reported |
| Formation Type: | Not Reported | Well Depth: | 110 |
| Construction Date: | 19730716 | Well Hole Depth: | 160 |
| Well Depth Units: | ft | | |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|--------------|---------------------|--------------|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1973-07-16 |
| Feet below surface: | 28.00 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

**21
West
1/2 - 1 Mile
Higher**

CA WELLS 80

| | | | |
|----------|------------|-------------|-----------------|
| Seq: | 80 | Prim sta c: | 01N/03E-06N03 M |
| Frds no: | 0710004008 | County: | 07 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-----------------------------|---------------|-----------------------|
| District: | 04 | User id: | ENG |
| System no: | 0710004 | Water type: | G |
| Source nam: | WELL 08 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 375730.0 | Longitude: | 1214225.0 |
| Precision: | 4 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| | | | |
| System no: | 0710004 | System nam: | City Of Brentwood |
| Hqname: | Not Reported | Address: | 708 THIRD STREET |
| City: | BRENTWOOD | State: | Not Reported |
| Zip: | 94513 | Zip ext: | Not Reported |
| Pop serv: | 8255 | Connection: | 2167 |
| Area serve: | BRENTWOOD | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 1700. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 1.9 |
| Chemical: | GROSS BETA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 250. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 2. |
| Chemical: | CARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 0.79 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 390. |
| Chemical: | HARDNESS (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 89. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 41. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 200. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 3.3 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| | | | |
| Sample date: | 07-SEP-17 | Finding: | 300. |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 07-SEP-17 | Finding: | 200. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 07-SEP-17 | Finding: | 0.27 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 07-SEP-17 | Finding: | 1600. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 07-SEP-17 | Finding: | 6.4 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dir: | 3. | | |
| Sample date: | 07-SEP-17 | Finding: | 7.1 |
| Chemical: | SELENIUM | Report units: | UG/L |
| Dir: | 5. | | |
| Sample date: | 07-SEP-17 | Finding: | 0.35 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 07-SEP-17 | Finding: | 0.61 |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 07-SEP-17 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 07-SEP-17 | Finding: | 1.4 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 07-SEP-17 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 07-SEP-17 | Finding: | 0.79 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 07-SEP-17 | Finding: | 0.15 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 07-SEP-17 | Finding: | 8.1 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 1700. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 1.3 |
| Chemical: | GROSS BETA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|-------|
| Sample date: | 31-MAY-16 | Finding: | 190. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 230. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 0.84 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 31-MAY-16 | Finding: | 430. |
| Chemical: | HARDNESS (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 97. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 45. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 220. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 3.7 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 340. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 220. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 31-MAY-16 | Finding: | 0.24 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 31-MAY-16 | Finding: | 1700. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 31-MAY-16 | Finding: | 6. |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dir: | 3. | | |
| Sample date: | 31-MAY-16 | Finding: | 4.4 |
| Chemical: | GROSS ALPHA | Report units: | PCI/L |
| Dir: | 3. | | |
| Sample date: | 31-MAY-16 | Finding: | 0.25 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 1.4 |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|--------------------------------|---------------|--------------|
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 1.2 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 0.11 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 31-MAY-16 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 0.84 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 31-MAY-16 | Finding: | 1.6 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 31-MAY-16 | Finding: | 7.9 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 1700. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 1.9 |
| Chemical: | GROSS BETA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 250. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 420. |
| Chemical: | HARDNESS (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 94. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 44. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 190. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Sample date: | 14-APR-15 | Finding: | 3.5 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 300. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 210. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 14-APR-15 | Finding: | 0.25 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 14-APR-15 | Finding: | 1500. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 14-APR-15 | Finding: | 6.6 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dir: | 3. | | |
| Sample date: | 14-APR-15 | Finding: | 0.33 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 2. |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 1.4 |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 3.5 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 14-APR-15 | Finding: | 8.5e-002 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 14-APR-15 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 780. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 14-APR-15 | Finding: | 1.3 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 14-APR-15 | Finding: | 8. |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|---|---------------|--------------|
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 0.9 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 0.5 |
| Chemical: | GROSS BETA COUNTING ERROR | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 2.4 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 1.7 |
| Chemical: | GROSS BETA MDA95 | Report units: | PCI/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 7.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 180. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO ₃ | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 220. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 370. |
| Chemical: | HARDNESS (TOTAL) AS CaCO ₃ | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 84. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 39. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 180. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 3.8 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 280. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 200. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Sample date: | 17-JUN-14 | Finding: | 0.25 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 17-JUN-14 | Finding: | 1400. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 17-JUN-14 | Finding: | 5.8 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dir: | 3. | | |
| Sample date: | 17-JUN-14 | Finding: | 8.8 |
| Chemical: | SELENIUM | Report units: | UG/L |
| Dir: | 5. | | |
| Sample date: | 17-JUN-14 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 1. |
| Chemical: | LANGELIER INDEX @ 60 C | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 3.5 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 17-JUN-14 | Finding: | 5700. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 8.1e-002 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 17-JUN-14 | Finding: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 17-JUN-14 | Finding: | 790. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 29-MAY-13 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 5.4 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 10. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 5.8e-002 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 29-MAY-13 | Finding: | 4.8 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|---|---------------|-------|
| Dir: | 2. | | |
| Sample date: | 29-MAY-13 | Finding: | 1000. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 0.26 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 29-MAY-13 | Finding: | 220. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 29-MAY-13 | Finding: | 280. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 3.8 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 190. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 46. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 97. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 430. |
| Chemical: | HARDNESS (TOTAL) AS CaCO ₃ | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 240. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO ₃ | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 29-MAY-13 | Finding: | 1100. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 23-JAN-13 | Finding: | 6.5 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dir: | 3. | | |
| Sample date: | 23-JAN-13 | Finding: | 6.8 |
| Chemical: | SELENIUM | Report units: | UG/L |
| Dir: | 5. | | |
| Sample date: | 23-JAN-13 | Finding: | 960. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir: | 0. | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Sample date: | 23-JAN-13 | Finding: | 3.2 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dir: | 2. | | |
| Sample date: | 23-JAN-13 | Finding: | 1500. |
| Chemical: | BORON | Report units: | UG/L |
| Dir: | 100. | | |
| Sample date: | 23-JAN-13 | Finding: | 2.6 |
| Chemical: | ARSENIC | Report units: | UG/L |
| Dir: | 2. | | |
| Sample date: | 23-JAN-13 | Finding: | 0.22 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir: | 0.1 | | |
| Sample date: | 23-JAN-13 | Finding: | 200. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dir: | 0.5 | | |
| Sample date: | 23-JAN-13 | Finding: | 260. |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 3.6 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 170. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 46. |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 95. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 430. |
| Chemical: | HARDNESS (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 250. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 200. |
| Chemical: | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 7.8 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 1600. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 5. |
| Chemical: | COLOR | Report units: | UNITS |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------|-------------------------------|---------------|--------------|
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 730. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir: | 0.4 | | |
| Sample date: | 23-JAN-13 | Finding: | 7300. |
| Chemical: | CARBON DIOXIDE | Report units: | UG/L |
| Dir: | 0. | | |
| Sample date: | 23-JAN-13 | Finding: | 0.11 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dir: | 0.1 | | |
| Sample date: | 23-JAN-13 | Finding: | 13. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir: | 0. | | |

22
North
1/2 - 1 Mile
Lower

CA WELLS CADWR8000036848

| | | | |
|---------------|----------------|------------------------|--------------|
| State Well #: | 02N03E31L999M | Station ID: | 48676 |
| Well Name: | Glen Park-GPMW | Well Use: | Observation |
| Well Type: | Single Well | Well Depth: | 300 |
| Basin Name: | Tracy | Well Completion Rpt #: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1

SSW

1/4 - 1/2 Mile

OIL_GAS

CAOG13000215358

| | | | |
|--------------------|---------------------------------------|------------------------|--------------------|
| API #: | 0401320223 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Western Continental Operating Company | | |
| Lease Name: | NGC-Kysh | Field Name: | Oakley, South, Gas |
| Area Name: | Any Area | GIS Source: | hud |
| Confidential Well: | N | Directionally Drilled: | Y |
| SPUD Date: | 03/01/1984 | | |

2

South

1/4 - 1/2 Mile

OIL_GAS

CAOG13000215353

| | | | |
|--------------------|---------------------------------------|------------------------|--------------------|
| API #: | 0401320208 | Well #: | 3 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Western Continental Operating Company | | |
| Lease Name: | NGC-Nunn | Field Name: | Oakley, South, Gas |
| Area Name: | Any Area | GIS Source: | hud |
| Confidential Well: | N | Directionally Drilled: | N |
| SPUD Date: | 05/11/1983 | | |

3

NNE

1/4 - 1/2 Mile

OIL_GAS

CAOG13000007496

| | | | |
|------------------------|--------------------------|--------------------|-------------|
| API #: | 0401320379 | Well #: | 1-6 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Sunset Exploration, Inc. | Lease Name: | Burcio-Mori |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | GPS | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 03/30/2009 |

4

South

1/4 - 1/2 Mile

OIL_GAS

CAOG13000215359

| | | | |
|--------------------|---|------------------------|--------------------|
| API #: | 0401320224 | Well #: | 7-4 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Arkoma Production Company of California | | |
| Lease Name: | Stolich | Field Name: | Oakley, South, Gas |
| Area Name: | Any Area | GIS Source: | GPS |
| Confidential Well: | N | Directionally Drilled: | N |
| SPUD Date: | 02/24/1984 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

A5
WSW
1/4 - 1/2 Mile

OIL_GAS CAOG13000215363

| | | | |
|--------------------|---|------------------------|--------------------|
| API #: | 0401320205 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | California Resources Production Corporation | | |
| Lease Name: | NGC-Cesa | Field Name: | Oakley, South, Gas |
| Area Name: | Any Area | GIS Source: | GPS |
| Confidential Well: | N | Directionally Drilled: | Y |
| SPUD Date: | 04/09/1983 | | |

A6
WSW
1/2 - 1 Mile

OIL_GAS CAOG13000007404

| | | | |
|------------------------|-------------|--------------------|--------------------|
| API #: | 0401320092 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Conoco Inc. | Lease Name: | Marsh Creek Unit B |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 12/10/1972 |

7
ENE
1/2 - 1 Mile

OIL_GAS CAOG13000007475

| | | | |
|------------------------|-----------------------|--------------------|------------------|
| API #: | 0401320301 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Horizon Operating Co. | Lease Name: | Geddes-Knightsen |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | GPS | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 08/29/1990 |

B8
South
1/2 - 1 Mile

OIL_GAS CAOG13000215356

| | | | |
|------------------------|--------------------|--------------------|------------------|
| API #: | 0401320232 | Well #: | 4 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Lee and Jane Laird | Lease Name: | Marsh Creek Unit |
| Field Name: | Oakley, South, Gas | Area Name: | Any Area |
| GIS Source: | GPS | Confidential Well: | N |
| Directionally Drilled: | Y | SPUD Date: | 07/07/1984 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

B9
South
1/2 - 1 Mile

OIL_GAS CAOG13000215352

| | | | |
|------------------------|--------------------|--------------------|------------------|
| API #: | 0401320220 | Well #: | 3 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Conoco Inc. | Lease Name: | Marsh Creek Unit |
| Field Name: | Oakley, South, Gas | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | Y | SPUD Date: | 05/11/1984 |

10
North
1/2 - 1 Mile

OIL_GAS CAOG13000007421

| | | | |
|------------------------|----------------------|--------------------|------------|
| API #: | 0401320149 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Atlantic Oil Company | Lease Name: | Register |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 09/23/1979 |

C11
South
1/2 - 1 Mile

OIL_GAS CAOG13000215355

| | | | |
|--------------------|---|------------------------|--------------------|
| API #: | 0401320195 | Well #: | 7-1 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Arkoma Production Company of California | Lease Name: | Oakley, South, Gas |
| Lease Name: | Stolich | Field Name: | GPS |
| Area Name: | Any Area | GIS Source: | N |
| Confidential Well: | N | Directionally Drilled: | N |
| SPUD Date: | 10/29/1982 | | |

12
SE
1/2 - 1 Mile

OIL_GAS CAOG13000007414

| | | | |
|------------------------|-------------|--------------------|------------|
| API #: | 0401320116 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Conoco Inc. | Lease Name: | Nunn |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 12/01/1977 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

C13
South
1/2 - 1 Mile

OIL_GAS CAOG13000215354

| | | | |
|------------------------|--------------------|--------------------|------------------|
| API #: | 0401320198 | Well #: | 2 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Venoco, LLC | Lease Name: | Marsh Creek Unit |
| Field Name: | Oakley, South, Gas | Area Name: | Any Area |
| GIS Source: | GPS | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 04/11/1983 |

D14
SW
1/2 - 1 Mile

OIL_GAS CAOG13000215365

| | | | |
|------------------------|--------------------|--------------------|------------------|
| API #: | 0401320087 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Conoco Inc. | Lease Name: | Marsh Creek Unit |
| Field Name: | Oakley, South, Gas | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 10/06/1972 |

D15
SW
1/2 - 1 Mile

OIL_GAS CAOG13000215366

| | | | |
|------------------------|--------------------|--------------------|------------------|
| API #: | 0401320097 | Well #: | 2 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Conoco Inc. | Lease Name: | Marsh Creek Unit |
| Field Name: | Oakley, South, Gas | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | Y | SPUD Date: | 10/27/1973 |

16
NE
1/2 - 1 Mile

OIL_GAS CAOG13000007462

| | | | |
|------------------------|----------------------|--------------------|------------|
| API #: | 0401320262 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Atlantic Oil Company | Lease Name: | Geddes |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | GPS | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 05/15/1986 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

17
South
1/2 - 1 Mile

OIL_GAS CAOG13000215364

| | | | |
|--------------------|---|------------------------|--------------------|
| API #: | 0401320206 | Well #: | 7-2 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Arkoma Production Company of California | | |
| Lease Name: | Stolich | Field Name: | Oakley, South, Gas |
| Area Name: | Any Area | GIS Source: | GPS |
| Confidential Well: | N | Directionally Drilled: | N |
| SPUD Date: | 04/11/1983 | | |

18
West
1/2 - 1 Mile

OIL_GAS CAOG13000215357

| | | | |
|------------------------|--------------------|--------------------|-----------------|
| API #: | 0401320239 | Well #: | 1-1 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Venada National | Lease Name: | Prewett-Lamport |
| Field Name: | Oakley, South, Gas | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 09/10/1984 |

19
South
1/2 - 1 Mile

OIL_GAS CAOG13000215361

| | | | |
|--------------------|----------------------------|------------------------|--------------------|
| API #: | 0401320338 | Well #: | 1-7 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Delta Sierra Oil & Gas LLC | | |
| Lease Name: | Sciortino | Field Name: | Oakley, South, Gas |
| Area Name: | Any Area | GIS Source: | GPS |
| Confidential Well: | N | Directionally Drilled: | Y |
| SPUD Date: | 11/06/1996 | | |

20
North
1/2 - 1 Mile

OIL_GAS CAOG13000007448

| | | | |
|------------------------|----------------------|--------------------|------------|
| API #: | 0401320216 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Atlantic Oil Company | Lease Name: | Unit Six |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 10/08/1983 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

21
East
1/2 - 1 Mile

OIL_GAS CAOG13000129471

| | | | |
|------------------------|-------------------------|--------------------|-------------------|
| API #: | 0401320084 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Great Yellowstone Corp. | Lease Name: | Felmont Oil Corp. |
| Field Name: | Knightsen Gas (ABD) | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 04/15/1972 |

22
SSE
1/2 - 1 Mile

OIL_GAS CAOG13000007434

| | | | |
|------------------------|-------------|--------------------|------------|
| API #: | 0401320176 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Conoco Inc. | Lease Name: | Stolich |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | GPS | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 07/05/1981 |

23
South
1/2 - 1 Mile

OIL_GAS CAOG13000215362

| | | | |
|--------------------|--------------------------------|------------------------|--------------------|
| API #: | 0401320204 | Well #: | 35X-7 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Production Specialties Company | Field Name: | Oakley, South, Gas |
| Lease Name: | Stolich | GIS Source: | GPS |
| Area Name: | Any Area | Directionally Drilled: | N |
| Confidential Well: | N | | |
| SPUD Date: | 04/27/1983 | | |

24
NE
1/2 - 1 Mile

OIL_GAS CAOG13000129470

| | | | |
|--------------------|---------------------------------------|------------------------|---------------------|
| API #: | 0401320267 | Well #: | 1-5 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Western Continental Operating Company | Field Name: | Knightsen Gas (ABD) |
| Lease Name: | NGC-Harris | GIS Source: | hud |
| Area Name: | Any Area | Directionally Drilled: | N |
| Confidential Well: | N | | |
| SPUD Date: | 12/21/1986 | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

25
WSW
1/2 - 1 Mile

OIL_GAS CAOG13000007493

| | | | |
|--------------------|--------------------------------|------------------------|-----------|
| API #: | 0401320359 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Production Specialties Company | | |
| Lease Name: | Disco Inferno | Field Name: | Any Field |
| Area Name: | Any Area | GIS Source: | hud |
| Confidential Well: | N | Directionally Drilled: | Y |
| SPUD Date: | 01/16/2001 | | |

26
East
1/2 - 1 Mile

OIL_GAS CAOG13000129468

| | | | |
|------------------------|---------------------|--------------------|------------|
| API #: | 0401320284 | Well #: | 1-5 |
| Well Status: | Plugged | Well Type: | GAS |
| Operator Name: | Fleet Oil Co. | Lease Name: | Knightsen |
| Field Name: | Knightsen Gas (ABD) | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 09/09/1988 |

27
WSW
1/2 - 1 Mile

OIL_GAS CAOG13000007308

| | | | |
|------------------------|------------------------|--------------------|------------|
| API #: | 0401300251 | Well #: | 3-1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Shell Western E&P Inc. | Lease Name: | Prewett |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 03/06/1963 |

28
WNW
1/2 - 1 Mile

OIL_GAS CAOG13000007307

| | | | |
|------------------------|------------------------|--------------------|------------|
| API #: | 0401300250 | Well #: | 1-1 |
| Well Status: | Plugged | Well Type: | DH |
| Operator Name: | Shell Western E&P Inc. | Lease Name: | Cunha |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | SPUD Date: | 09/18/1963 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---------|-----------|-----------|
| 94513 | 5 | 0 |

Federal EPA Radon Zone for CONTRA COSTA 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 CONTRA COSTA COUNTY, CA

Number of sites tested: 55

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------------------|------------------|------------|--------------|-------------|
| Living Area - 1st Floor | 0.760 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | 0.300 pCi/L | 100% | 0% | 0% |
| Basement | 0.525 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: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.



DRAFT

APPENDIX B

CENTRAL TITLE COMPANY

Preliminary Title Report

EXHIBIT A

The land referred to is situated in the County of Contra Costa, City of Brentwood, State of California, and is described as follows:

PARCEL ONE:

All that portion of the Northeast 1/4 of the Southwest 1/4 of Section 6, Township 1 North, Range 3 East, Mount Diablo Base and Meridian lying West of the center line of Marsh Creek.

Excepting therefrom the following:

1. All that portion thereof conveyed to the Contra Costa County Flood Control and Water Conservation District, by deed recorded September 18, 1964, in [Book 4705, Page 102](#), Official Records.
2. All that portion thereof conveyed to the City of Brentwood by deed recorded January 10, 1969, in [Book 5788, Page 631](#), Official Records.

PARCEL TWO:

All that portion of the property conveyed to Brentwood Sanitary District, a political subdivision, by Deed dated October 7, 1940 and recorded October 30, 1940, in [Book 568 of Official Records, at page 137](#), Contra Costa County Records, California lying Westerly and Northwesterly of the Westerly and Northwesterly line of parcel of land conveyed to Contra Costa County Flood Control and Water Conservation District, a political subdivision, by Deed dated October 23, 1964 and recorded September 30, 1965 in [Book 4963 of Official Records at Page 939](#), Contra Costa County Records.

Excepting from Parcel Two rights reserved in the Deed from Brentwood Sanitary District recorded December 6, 1968, in [Book 5765, Page 246](#), Official Records to all oil, gas, casinghead gas, asphaltum and other hydrocarbons and all chemical gas, now or hereafter found lying more than five hundred feet (500") below the surface of said real property, together with the right to slant drill for and remove all or any of said oil, gas, casinghead gas, asphaltum and other hydrocarbons and chemical gas lying below a depth of more than five hundred feet (500") below the surface of said real property; but without any right whatsoever to enter upon the surface of said real property or upon any part of said lands within five hundred feet (500") vertical distance below the surface of said real property.

PARCEL THREE:

A right of way granted in the Deed to Harry Stone, recorded December 1, 1890 in [Book 58 of Deeds, Page 142](#) as follows:

A right of way from the above, described tract over a strip of land (25) twenty-five feet in width lying along and North of the Southern boundary line of the N.W. 1/4 of the S.W. 1/4 of Section Six (6) aforesaid.

APN: 018-230-034



OLD REPUBLIC
TITLE COMPANY

200 Sand Creek Road, Suite A
Brentwood, CA 94513
(925) 634-1010 Fax: (925) 634-0914

PRELIMINARY REPORT

FIRST AMENDED

EDWARD HANSON
9057 Laguna Place Way
Elk Grove, CA 95758

Our Order Number 0120020114-NB

Attention: EDWARD HANSON

When Replying Please Contact:

Buyer:

PULTE HOME CORPORATION, A MICHIGAN
CORPORATION

Nancy Byrd
NByrd@ortc.com
(925) 634-1010

Property Address:

251 Hanson Lane, Brentwood, CA 94513

In response to the above referenced application for a policy of title insurance, OLD REPUBLIC TITLE COMPANY, as issuing Agent of Old Republic National Title Insurance Company, hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said Policy or Policies are set forth in Exhibit I attached. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the Homeowner's Policy of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit I. Copies of the Policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit I of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

Dated as of July 12, 2016, at 7:30 AM

OLD REPUBLIC TITLE COMPANY
For Exceptions Shown or Referred to, See Attached

OLD REPUBLIC TITLE COMPANY
ORDER NO. 0120020114-NB
FIRST AMENDED

The form of policy of title insurance contemplated by this report is:

CLTA Standard Coverage Policy -1990; AND ALTA Loan Policy - 2006. A specific request should be made if another form or additional coverage is desired.

The estate or interest in the land hereinafter described or referred or covered by this Report is:

Fee as to Parcel(s) One and Two and an Easement as to Parcel(s) Three

Title to said estate or interest at the date hereof is vested in:

Edward J. Hanson, Sucessor Trustee of the Henry Hanson Family Trust dated October 3, 1994

The land referred to in this Report is situated in the County of Contra Costa, City of Brentwood, State of California, and is described as follows:

PARCEL ONE:

All that portion of the Northeast 1/4 of the Southwest 1/4 of Section 6, Township 1 North, Range 3 East, Mount Diablo Base and Meridian lying West of the center line of Marsh Creek.

Excepting therefrom the following:

1. All that portion thereof conveyed to the Contra Costa County Flood Control and Water Conservation District, by deed recorded September 18, 1964, in [Book 4705, Page 102](#), Official Records.
2. All that portion thereof conveyed to the City of Brentwood by deed recorded January 10, 1969, in [Book 5788, Page 631](#), Official Records.

PARCEL TWO:

All that portion of the property conveyed to Brentwood Sanitary District, a political subdivision, by Deed dated October 7, 1940 and recorded October 30, 1940, in [Book 568 of Official Records, at page 137](#), Contra Costa County Records, California lying Westerly and Northwesterly of the Westerly and Northwesterly line of parcel of land conveyed to Contra Costa County Flood Control and Water Conservation District, a political subdivision, by Deed dated October 23, 1964 and recorded September 30, 1965 in [Book 4963 of Official Records at Page 939](#), Contra Costa County Records.

Excepting from Parcel Two rights reserved in the Deed from Brentwood Sanitary District recorded December 6, 1968, in [Book 5765, Page 246](#), Official Records to all oil, gas, casinghead gas, asphaltum and other hydrocarbons and all chemical gas, now or hereafter found lying more than five hundred feet (500") below the surface of said real property, together with the right to slant drill for and remove all or any of said oil, gas, casinghead gas, asphaltum and other hydrocarbons and chemical gas lying below a depth of more than five hundred feet (500") below the surface of said real property; but without any right whatsoever to enter upon the surface of said real property or upon any part of said lands within five hundred feet (500") vertical distance below the surface of said real property.

PARCEL THREE:

OLD REPUBLIC TITLE COMPANY
ORDER NO. 0120020114-NB
FIRST AMENDED

A right of way granted in the Deed to Harry Stone, recorded December 1, 1890 in [Book 58 of Deeds, Page 142](#) as follows:

A right of way from the above, described tract over a strip of land (25) twenty-five feet in width lying along and North of the Southern boundary line of the N.W. 1/4 of the S.W. 1/4 of Section Six (6) aforesaid.

APN: 018-230-034

At the date hereof exceptions to coverage in addition to the Exceptions and Exclusions in said policy form would be as follows:

1. Taxes and assessments, general and special, for the fiscal year 2016 - 2017, a lien, but not yet due or payable.

2. Taxes and assessments, general and special, for the fiscal year 2015 - 2016, as follows:

| | | | |
|----------------------|---|---------------|-------------|
| Assessor's Parcel No | : | 018-230-034-3 | |
| Bill No. | : | 022512 | |
| Code No. | : | 10-117 | |
| 1st Installment | : | \$3,916.25 | Marked Paid |
| 2nd Installment | : | \$3,916.25 | Marked Paid |
| Land Value | : | \$688,153.00 | |
| Imp. Value | : | \$7,723.00 | |

3. The lien of supplemental taxes, if any, assessed pursuant to the provisions of Section 75, et seq., of the Revenue and Taxation Code of the State of California.

4. Assessments that may be levied, as follows:

For/By : East Contra Costa Irrigation District Amounts to pay may be obtained from the East Contra Costa Irrigation District at (925) 634-3544

OLD REPUBLIC TITLE COMPANY
ORDER NO. 0120020114-NB
FIRST AMENDED

5. An easement affecting that portion of said land and for the purposes stated herein and incidental purposes as provided in the following

Instrument : Deed
Reserved by : T.A. McMahon, et al
For : A right of way
Recorded : December 1st, 1890 in [Book 58 of Official Records, Page 142](#)
Affects : The South 25 feet of Parcel One

6. An easement affecting that portion of said land and for the purposes stated herein and incidental purposes as provided in the following

Instrument : Grant of Right of Way for Electric Transmission Lines
Granted to : Pacific Gas and Electric Company, a California corporation, its successors and assigns
For : Poles, wires, guys, crossarms, braces and other fixtures
Recorded : February 21st, 1941 in [Book 587 of Official Records, Page 33](#)
Affects : A portion

7. Oil and Gas Lease for and upon the terms, covenants and conditions contained or referred to therein,

Lessor : Henry Albert Hanson
Lessee : Fleet Oil Co., a California Corporation
Recorded : November 22nd, 1982 in [Book 11017 of Official Records, Page 43](#)
Returned to Address : 17291 Irvine Blvd., #200, Tustin, CA 92680

Matters as contained or referred to in an instrument,

Entitled : Memorandum of Waiver of Surface Rights Agreement
Executed By : California Resources Production Corporation and Edward J. Hanson, as the sole Trustee of the Henry Hanson Family Trust
U/D/T October 3, 1994
Dated : February 25, 2015
Recorded : [March 19, 2015 in Official Records under Recorder's Serial Number 2015-0049425-00](#)

OLD REPUBLIC TITLE COMPANY
ORDER NO. 0120020114-NB
FIRST AMENDED

NOTE: The present ownership of said leasehold or leaseholds and other matters affecting the interest of the lessee or lessees are not shown herein.

8. The effect of the following:
- A. An ordinance of the City of Brentwood, State of California, adopting a Redevelopment Plan for the North Brentwood Redevelopment Project pursuant to the Community Redevelopment Law of the State of California, recorded July 15, 1991, [Book 16733, Page 706](#), Official Records.
 - B. A Statement of Institution of Redevelopment Proceedings recorded July 15, 1991, in [Book 16733, Page 819](#), Official Records.
 - C. Revised Notice of Adoption of the Redevelopment Plans for the Downtown Brentwood and North Brentwood Redevelopment Projects. Recorded April 18, 2007, under Recorder's Serial Number [2007-0114082](#)
9. Terms and provisions of Contra Costa County Ordinance No. 97-30, Revision of East Contra Costa Sub-Regional Transportation Mitigation Fees, and Ordinance No. 97-29 Urgency Measure for Interim Authorization to Revise Eastern Contra Costa Sub-Regional Transportation Mitigation Fees recorded August 6, 1997, in Official Records, as Instrument No. [97-0140390](#), [97-0140391](#), and [97-0140393](#), respectively, and Resolution No. 97-445 Resolution and Ordinance to Extend the Urgency Ordinance for the Eastern Contra Costa Sub-Regional Transportation Mitigation Fee Program recorded August 18, 1997, in Official Records, as Instrument No. [97-0148355](#).
10. An easement affecting that portion of said land and for the purposes stated herein and incidental purposes as provided in the following
- | | | |
|------------|---|---|
| Instrument | : | Grant of Easement |
| Granted to | : | Contra Costa County, a political subdivision of the State of California |
| For | : | Flood control purposes and transmission of drainage water |
| Recorded | : | October 16th, 1997 in Official Records, under Recorder's Serial Number 97-0200301 |
| Affects | : | A strip of land 4.572 meters in width across a portion of Parcel One |

OLD REPUBLIC TITLE COMPANY
ORDER NO. 0120020114-NB
FIRST AMENDED

11. Terms and conditions contained in the Henry Hanson Family Trust as disclosed by Trust Transfer Deed

Recorded : [October 10, 1994 in Official Records under Recorder's Serial Number 94 251733](#)

NOTE: The requirement that:
A Certification of Trust be furnished in accordance with Probate Code Section 18100.5
The Company reserves the right to make additional exceptions and/or requirements.

12. Any unrecorded and subsisting leases.

13. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.

14. The requirement that this Company be provided with an opportunity to inspect the land (the Company reserves the right to make additional exceptions and/or requirements upon completion of its inspection).

15. The requirement that this Company be provided with a suitable Owner's Declaration (form ORT 174). The Company reserves the right to make additional exceptions and/or requirements upon review of the Owner's Declaration.

----- **Informational Notes** -----

A. The applicable rate(s) for the policy(s) being offered by this report or commitment appears to be section(s) 1.1 and 2.1.

OLD REPUBLIC TITLE COMPANY
ORDER NO. 0120020114-NB
FIRST AMENDED

- B. The above numbered report (including any supplements or amendments thereto) is hereby modified and/or supplemented to reflect the following additional items relating to the issuance of an American Land Title Association loan form policy:

NONE

NOTE: Our investigation has been completed and said land is unimproved. Said vacant land is known as: 251 Hanson Lane, Brentwood, CA 94513

The ALTA loan policy, when issued, will contain the CLTA Modified 100 (TIM-52) and Modified 116 (TIM-58) endorsements. The referenced modifications to both endorsements delete only non-applicable coverage relating to improvements located upon said land.

Unless shown elsewhere in the body of this report, there appears of record no transfers or agreements to transfer the land described herein within the last three years prior to the date hereof, except as follows:

NONE

- C. NOTE: The last recorded transfer or agreement to transfer the land described herein is as follows:

Instrument
Entitled : Trust Transfer Deed
By/From : Henry Albert Hanson
To : Henry A. Hanson, trustee of the Henry Hanson Family Trust, dated
October 3, 1994
Recorded : [October 10, 1994 in Official Records under Recorder's Serial Number 94-251733](#)

An Affidavit of Change of Trustee, disclosing Edward J. Hanson as the current acting trustee, recorded December 23, 2010 of Official Records under Recorder's Series Number [2010-0292212](#).

[Affects Parcel One]

Quitclaim Deed executed by Contra Costa County Flood Control and Water Conservation District, a political subdivision, to Henry Albert Hanson recorded [February 10, 1969 in Book 5809 of Official Records, Page 480 under Recorder's Serial Number 9758](#).

[Affects Parcel Two]

OLD REPUBLIC TITLE COMPANY
ORDER NO. 0120020114-NB
FIRST AMENDED

Order Determining Succession to Real Property executed by Superior Court of California to Edward J. Hanson, Successor Trustee of the Henry Hanson Family Trust, dated 10/03/1994 recorded [November 4, 2014 in Official Records under Recorder's Serial Number 2014-191115](#).

- D. All transactions that close on or after March 1, 2015 will include a \$20.00 minimum recording service fee, plus actual charges required by the County Recorder.

O.N.
JF/tb

**CALIFORNIA LAND TITLE ASSOCIATION
STANDARD COVERAGE POLICY - 1990
EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.-

(b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
 - (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
 - (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;.
 - (c) resulting in no loss or damage to the insured claimant;
 - (d) attaching or created subsequent to Date of Policy; or
 - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments Which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.

Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims Which are not shown by the public records but which could be ascertained by an inspection of the land which may be asserted by persons in possession thereof,
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

**AMERICAN LAND TITLE ASSOCIATION
LOAN POLICY OF TITLE INSURANCE - 2006
EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
 - (i) the occupancy, use, or enjoyment of the Land;
 - (ii) the character, dimensions, or location of any improvement erected on the Land;
 - (iii) the subdivision of land; or
 - (iv) environmental protection; or the effect of any violation of these laws, ordinances, or governmental regulations.This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
 - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
 - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
 - (c) resulting in no loss or damage to the Insured Claimant;
 - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
 - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
 - (a) a fraudulent conveyance or fraudulent transfer, or
 - (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

EXCEPTIONS FROM COVERAGE – SCHEDULE B, PART 1, SECTION ONE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

OLD REPUBLIC TITLE COMPANY

Privacy Policy Notice

PURPOSE OF THIS NOTICE

Title V of the Gramm-Leach-Bliley Act (GLBA) generally prohibits any financial institution, directly or through its affiliates, from sharing nonpublic personal information about you with a nonaffiliated third party unless the institution provides you with a notice of its privacy policies and practices, such as the type of information that it collects about you and the categories of persons or entities to whom it may be disclosed. In compliance with the GLBA, we are providing you with this document, which notifies you of the privacy policies and practices of OLD REPUBLIC TITLE COMPANY

We may collect nonpublic personal information about you from the following sources:

- Information we receive from you such as on applications or other forms.
- Information about your transactions we secure from our files, or from [our affiliates or] others.
- Information we receive from a consumer reporting agency.
- Information that we receive from others involved in your transaction, such as the real estate agent or lender.

Unless it is specifically stated otherwise in an amended Privacy Policy Notice, no additional nonpublic personal information will be collected about you.

We may disclose any of the above information that we collect about our customers or former customers to our affiliates or to nonaffiliated third parties as permitted by law.

We also may disclose this information about our customers or former customers to the following types of nonaffiliated companies that perform marketing services on our behalf or with whom we have joint marketing agreements:

- Financial service providers such as companies engaged in banking, consumer finance, securities and insurance.
- Non-financial companies such as envelope stuffers and other fulfillment service providers.

WE DO NOT DISCLOSE ANY NONPUBLIC PERSONAL INFORMATION ABOUT YOU WITH ANYONE FOR ANY PURPOSE THAT IS NOT SPECIFICALLY PERMITTED BY LAW.

We restrict access to nonpublic personal information about you to those employees who need to know that information in order to provide products or services to you. We maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Disclosure to Consumer of Available Discounts

Section 2355.3 in Title 10 of the California Code of Regulation necessitates that Old Republic Title Company provide a disclosure of each discount available under the rates that it, or its underwriter Old Republic National Title Insurance Company, have filed with the California Department of Insurance that are applicable to transactions involving property improved with a one to four family residential dwelling.

You may be entitled to a discount under Old Republic Title Company's escrow charges if you are an employee or retired employee of Old Republic Title Company including its subsidiary or affiliated companies or you are a member in the California Public Employees Retirement System "CalPERS" or the California State Teachers Retirement System "CalSTRS" and you are selling or purchasing your principal residence.

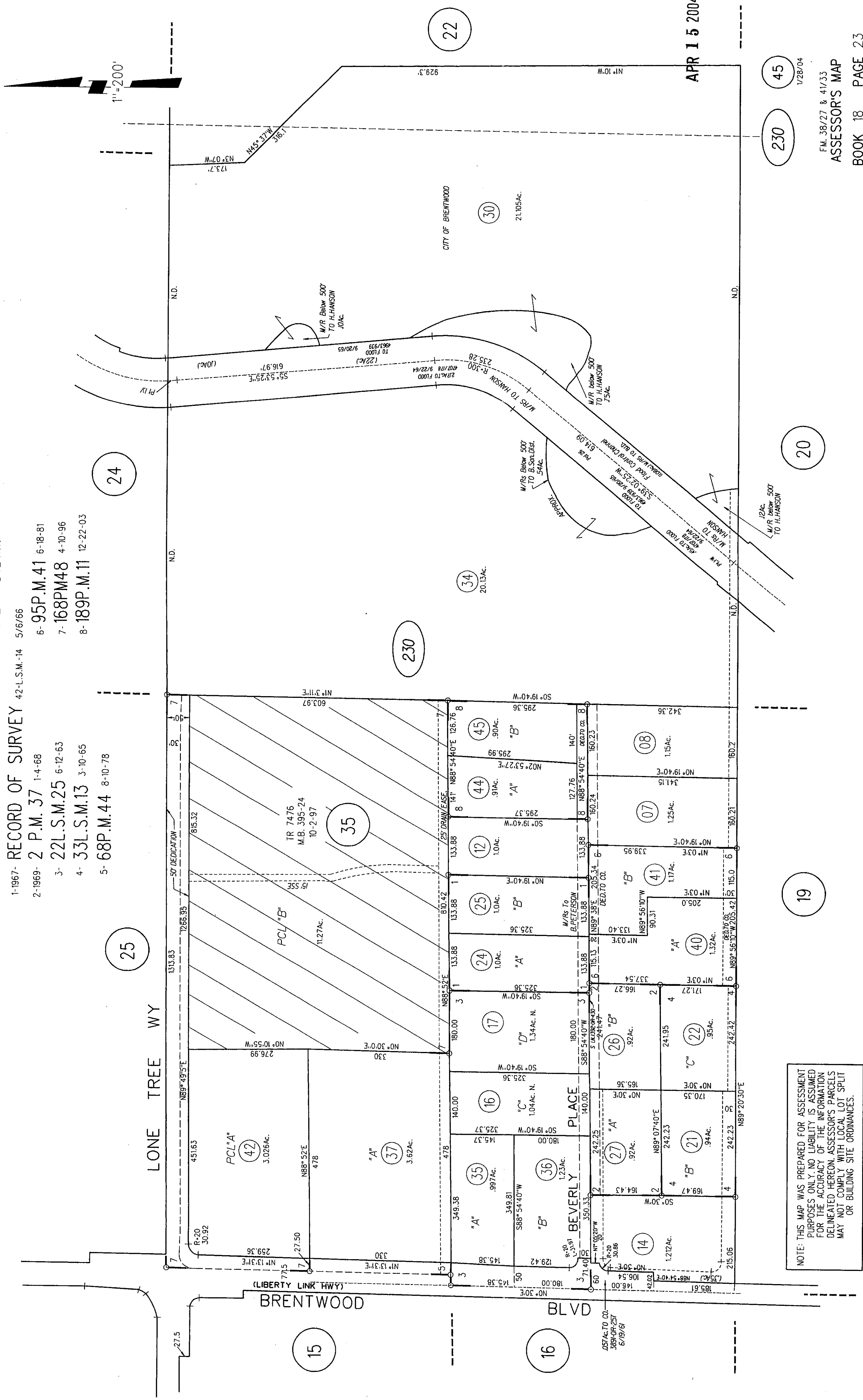
If you are an employee or retired employee of Old Republic National Title Insurance Company, or its subsidiary or affiliated companies, you may be entitled to a discounted title policy premium.

Please ask your escrow or title officer for the terms and conditions that apply to these discounts.

A complete copy of the Schedule of Escrow Fees and Service Fees for Old Republic Title Company and the Schedule of Fees and Charges for Old Republic National Title Insurance Company are available for your inspection at any Old Republic Title Company office.

POR. S.W. 1/4- SEC.6; T.1.N. R.3.E. M.D.B.M.

- 1-1967- RECORD OF SURVEY 42-L.S.M.-14 5/6/66
- 2-1969- 2 P.M. 37 1-4-68
- 3- 22L.S.M.25 6-12-63
- 4- 33L.S.M.13 3-10-65
- 5- 68P.M.44 8-10-78
- 6- 95P.M.41 6-18-81
- 7- 168PM48 4-10-96
- 8- 189P.M.11 12-22-03



NOTE: THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE INFORMATION DELINEATED HEREON. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL LOT SPLIT OR BUILDING SITE ORDINANCES.

45
230
20

APR 15 2004
1/28/04
FM. 38/27 & 41/33
ASSESSOR'S MAP
BOOK 18 PAGE 23
CONTRA COSTA COUNTY, CALIF.



DRAFT

APPENDIX C

ENVIRONMENTAL DATA RESOURCES, INC.

Historical Topographic Map Report

Hanson Ranch
251 Hanson Lane
Brentwood, CA 94513

Inquiry Number: 6226122.4

October 14, 2020

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/14/20

Site Name:

Hanson Ranch
251 Hanson Lane
Brentwood, CA 94513
EDR Inquiry # 6226122.4

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Adrianna Lundberg



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Engeo Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

Coordinates:

| | | | |
|-----------------|---------------|----------------------|--------------------------------|
| P.O.# | P2020.002.260 | Latitude: | 37.960023 37° 57' 36" North |
| Project: | Hanson Ranch | Longitude: | -121.690289 -121° 41' 25" West |
| | | UTM Zone: | Zone 10 North |
| | | UTM X Meters: | 615053.98 |
| | | UTM Y Meters: | 4202188.45 |
| | | Elevation: | 52.00' above sea level |

Maps Provided:

2012
1978
1968
1954
1943
1940
1916
1914

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

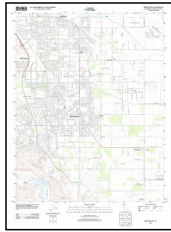
Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



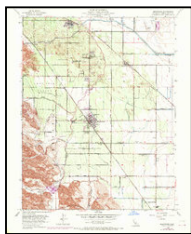
Brentwood
2012
7.5-minute, 24000

1978 Source Sheets



Brentwood
1978
7.5-minute, 24000
Aerial Photo Revised 1974

1968 Source Sheets



Brentwood
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1954 Source Sheets

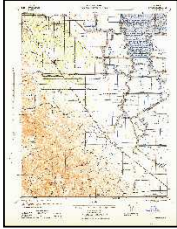


Brentwood
1954
7.5-minute, 24000
Aerial Photo Revised 1949

Topo Sheet Key

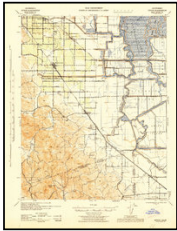
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets



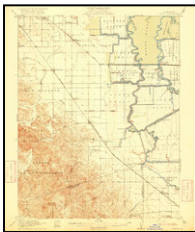
BYRON
1943
15-minute, 62500

1940 Source Sheets



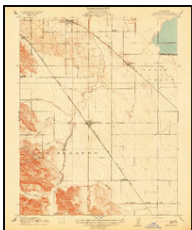
Byron
1940
15-minute, 62500
Aerial Photo Revised 1940

1916 Source Sheets

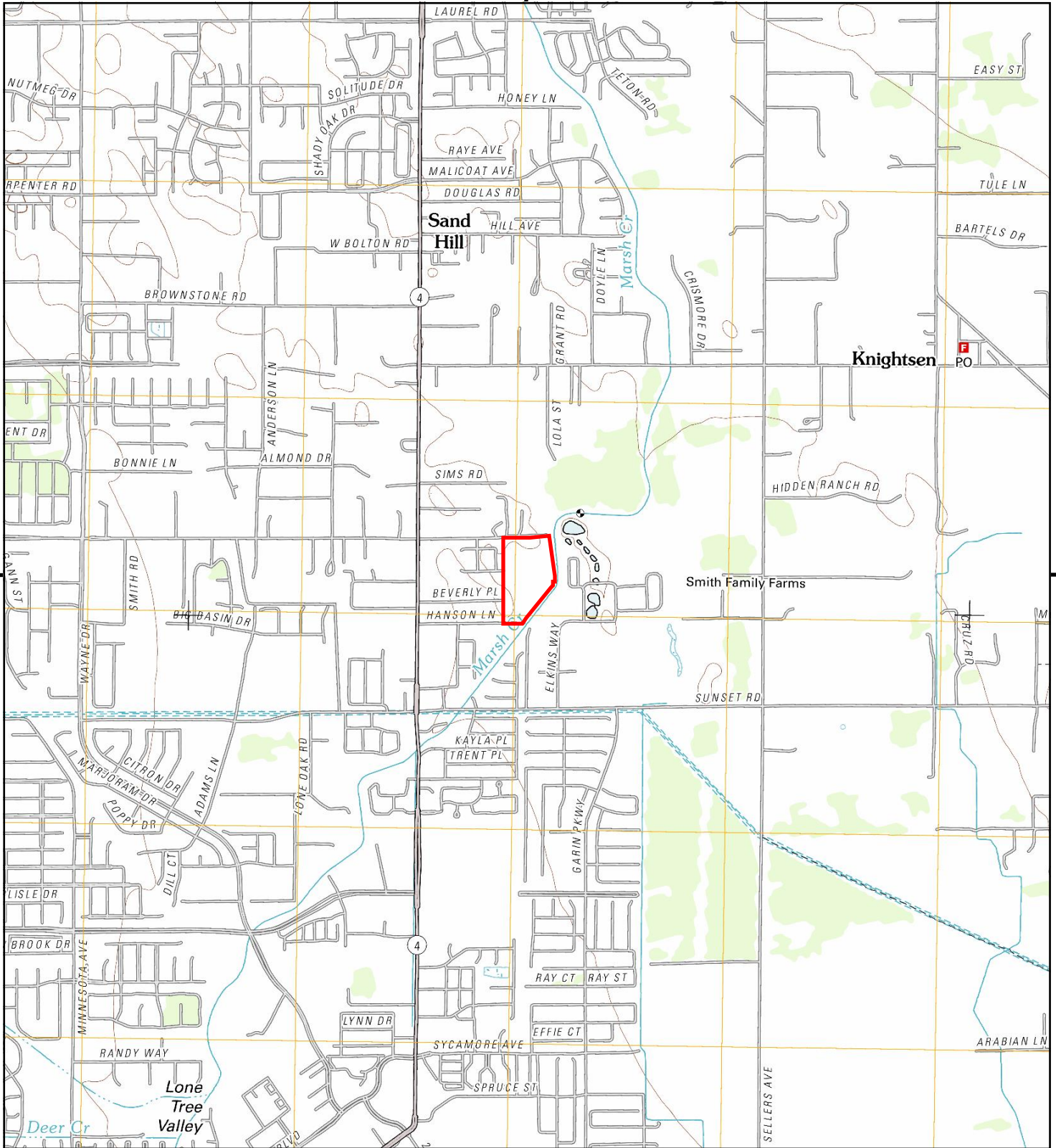


Byron
1916
15-minute, 62500

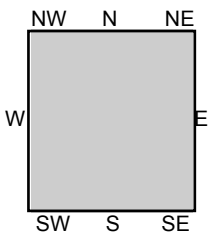
1914 Source Sheets



Brentwood
1914
7.5-minute, 31680



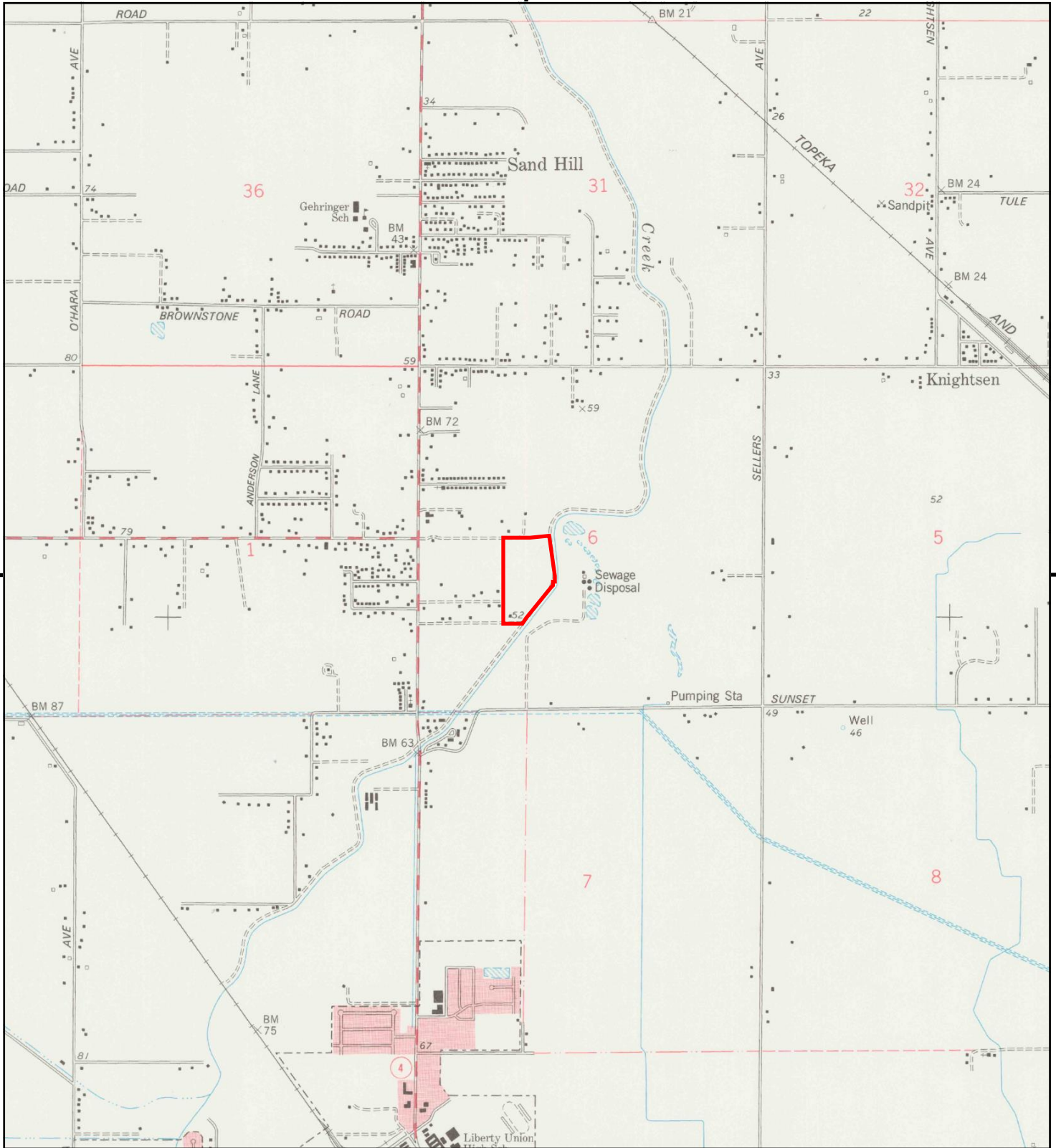
This report includes information from the following map sheet(s).



TP, Brentwood, 2012, 7.5-minute

SITE NAME: Hanson Ranch
ADDRESS: 251 Hanson Lane
 Brentwood, CA 94513
CLIENT: Engeo Inc.





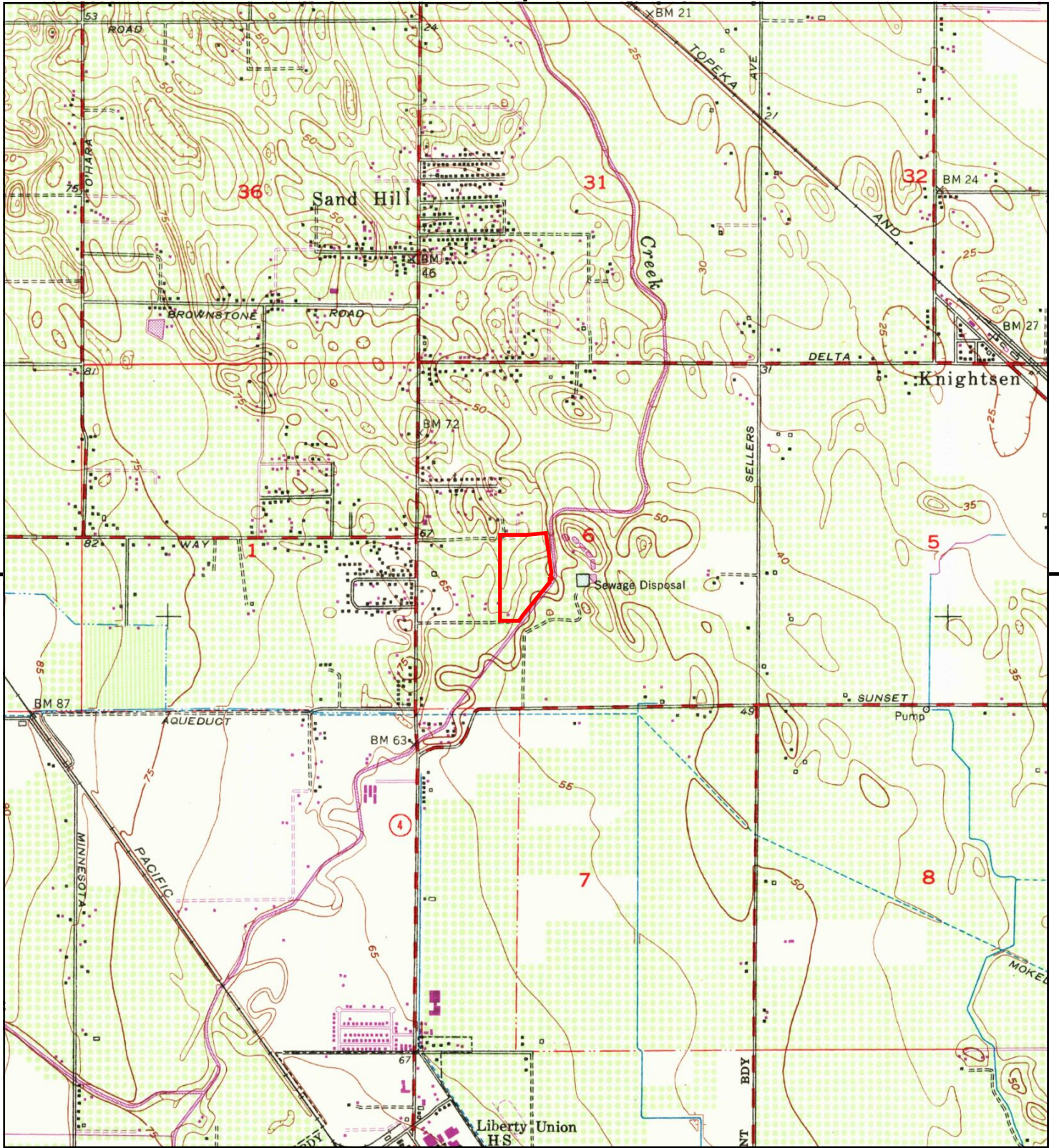
This report includes information from the following map sheet(s).



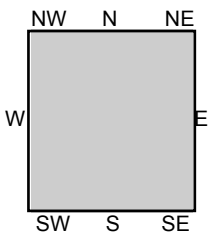
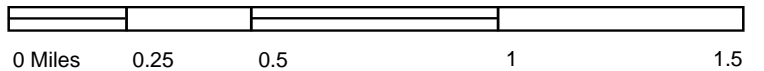
TP, Brentwood, 1978, 7.5-minute

SITE NAME: Hanson Ranch
ADDRESS: 251 Hanson Lane
Brentwood, CA 94513
CLIENT: Engeo Inc.





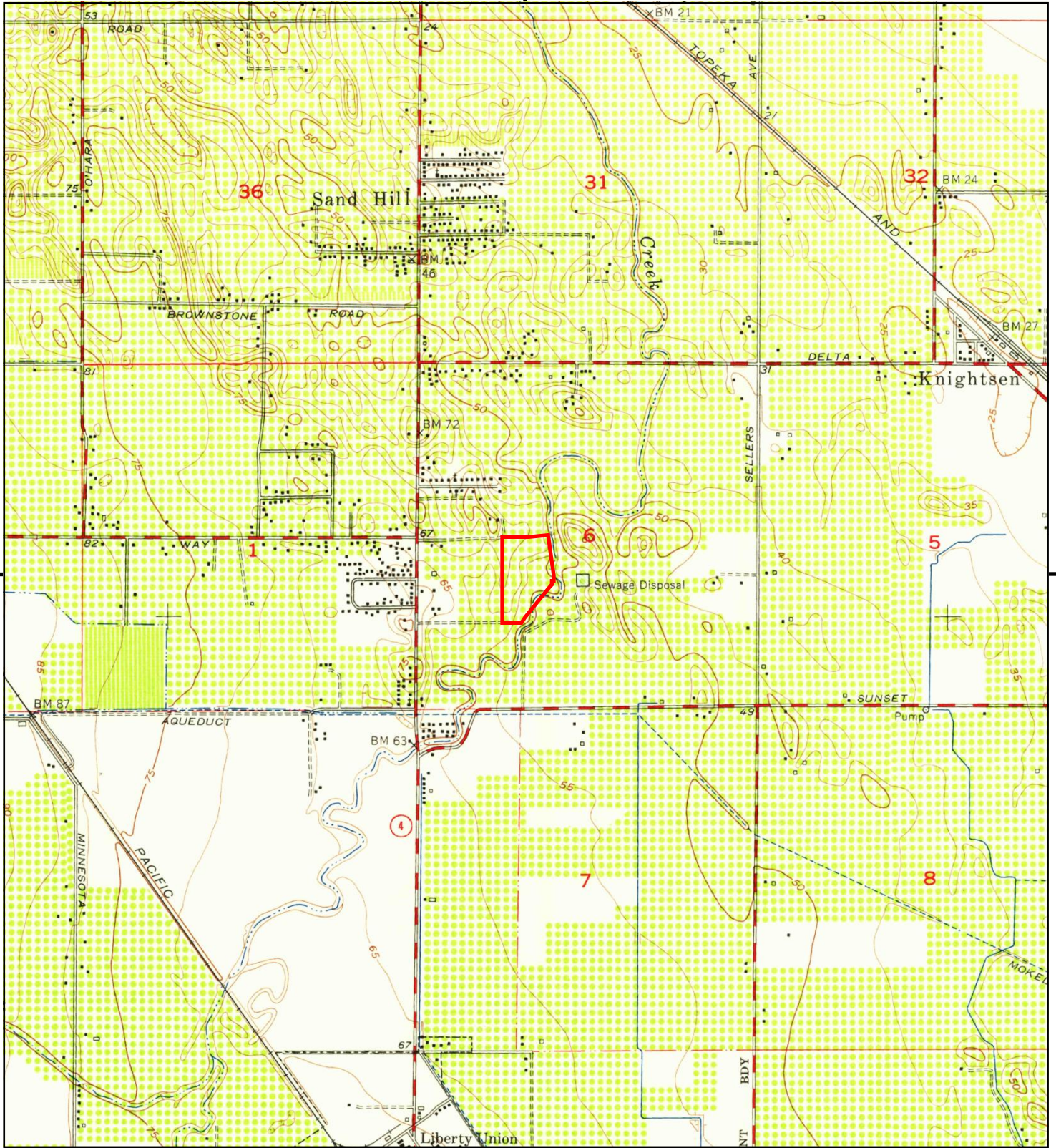
This report includes information from the following map sheet(s).



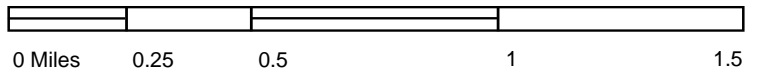
TP, Brentwood, 1968, 7.5-minute

SITE NAME: Hanson Ranch
 ADDRESS: 251 Hanson Lane
 Brentwood, CA 94513
 CLIENT: Engeo Inc.





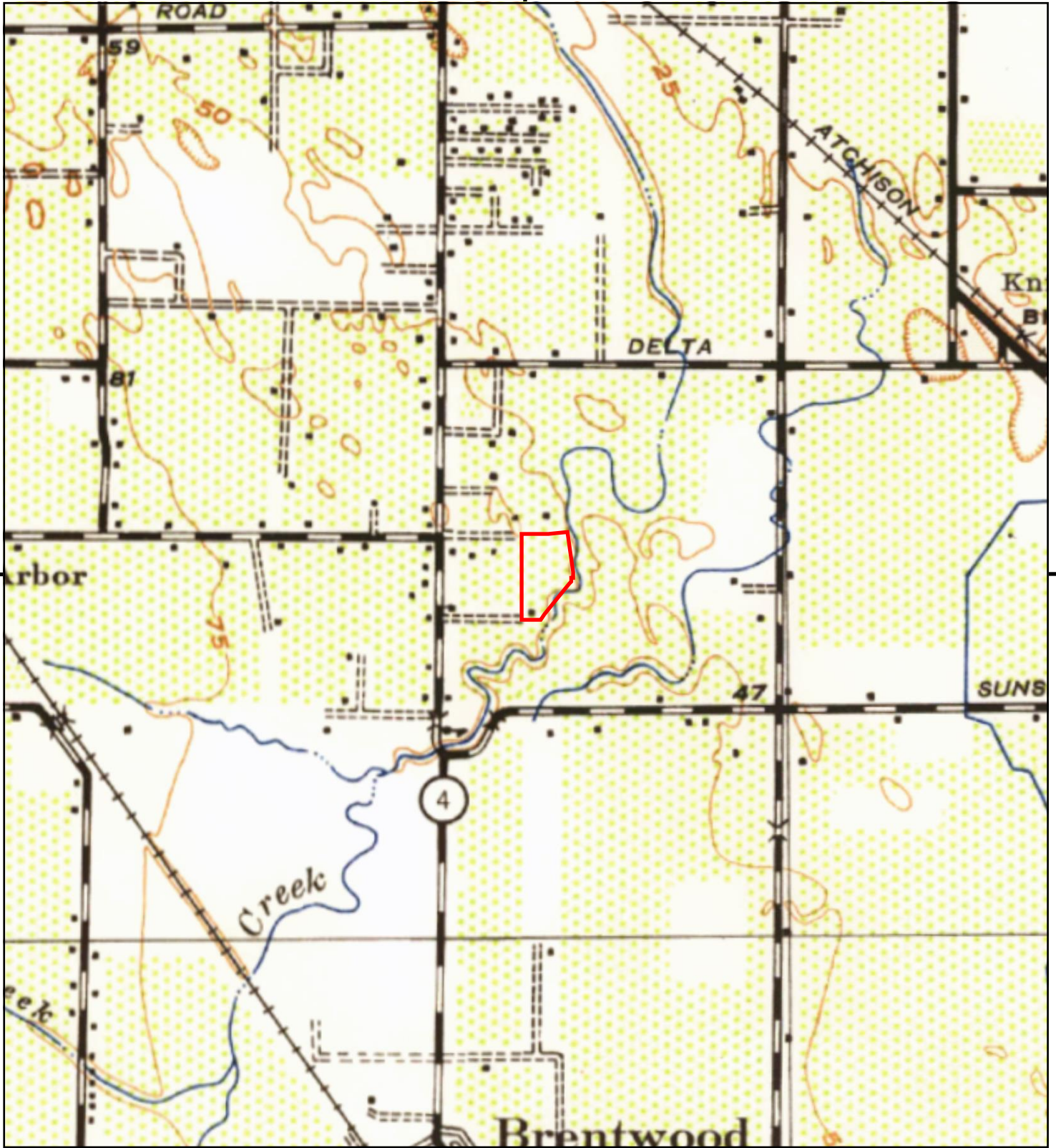
This report includes information from the following map sheet(s).



TP, Brentwood, 1954, 7.5-minute

SITE NAME: Hanson Ranch
 ADDRESS: 251 Hanson Lane
 Brentwood, CA 94513
 CLIENT: Engeo Inc.





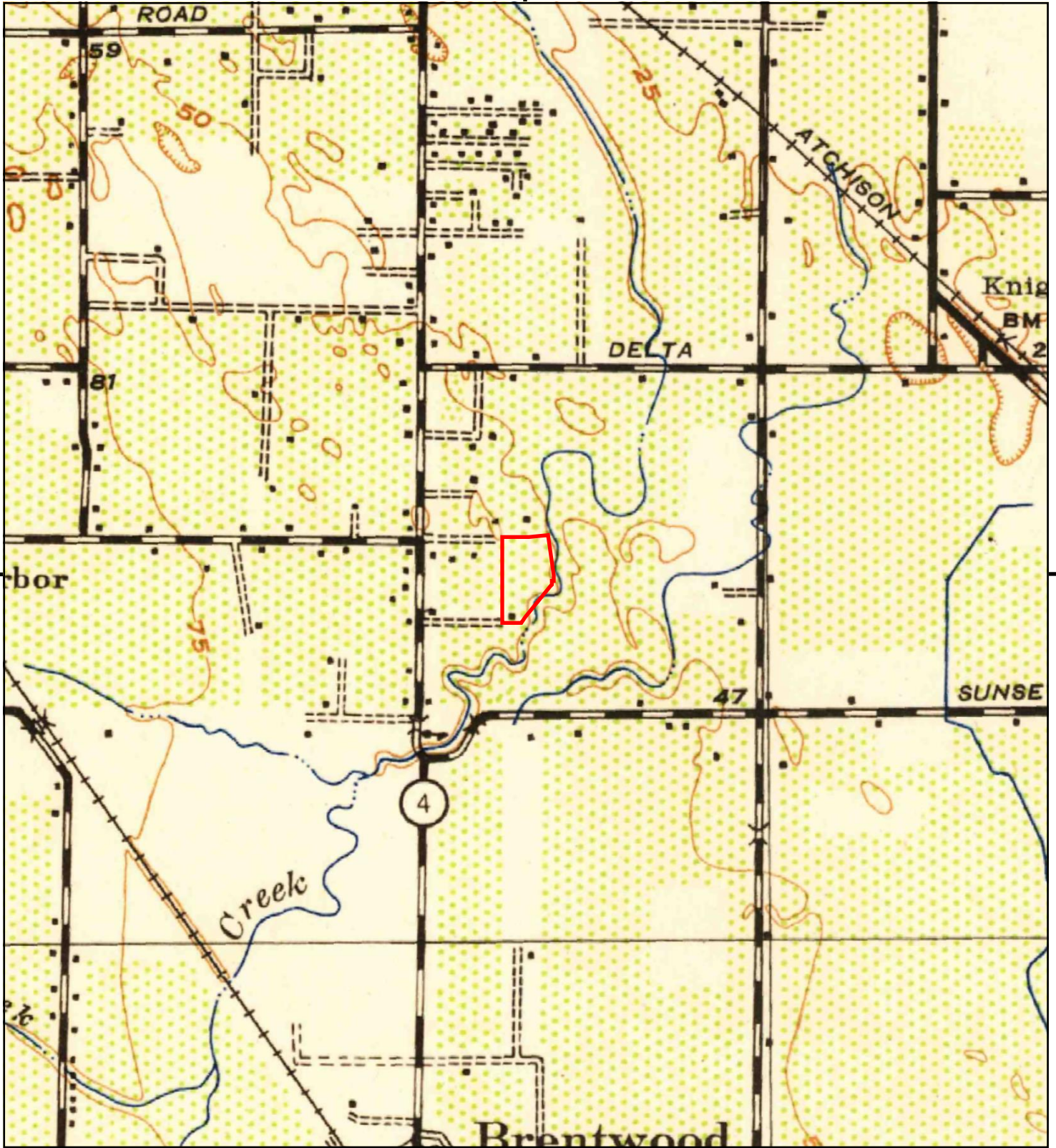
This report includes information from the following map sheet(s).



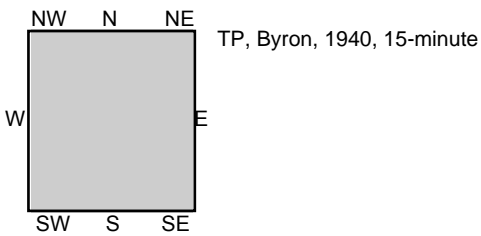
TP, BYRON, 1943, 15-minute

SITE NAME: Hanson Ranch
 ADDRESS: 251 Hanson Lane
 Brentwood, CA 94513
 CLIENT: Engeo Inc.



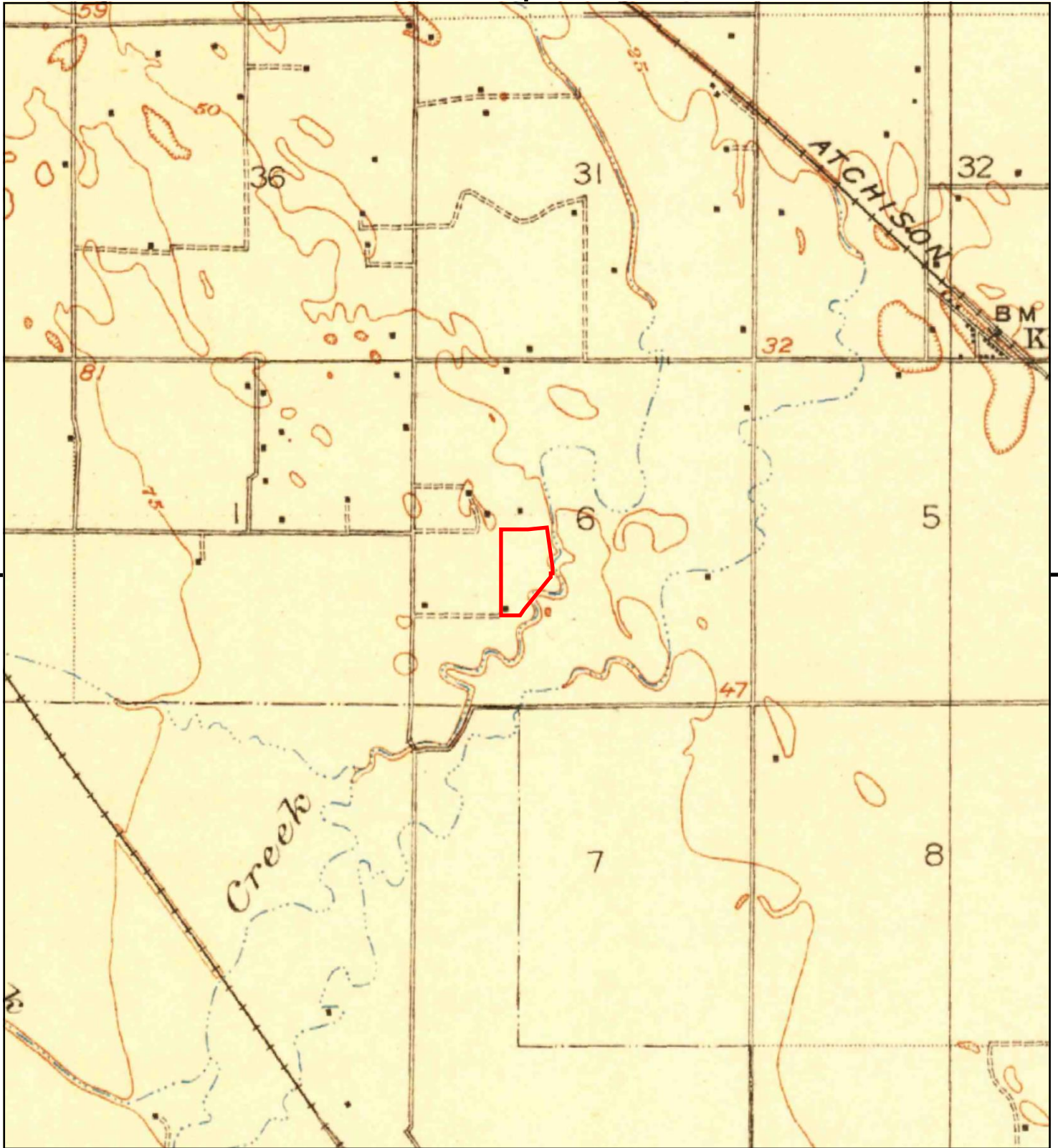


This report includes information from the following map sheet(s).

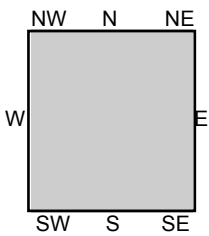


SITE NAME: Hanson Ranch
ADDRESS: 251 Hanson Lane
Brentwood, CA 94513
CLIENT: Engeo Inc.





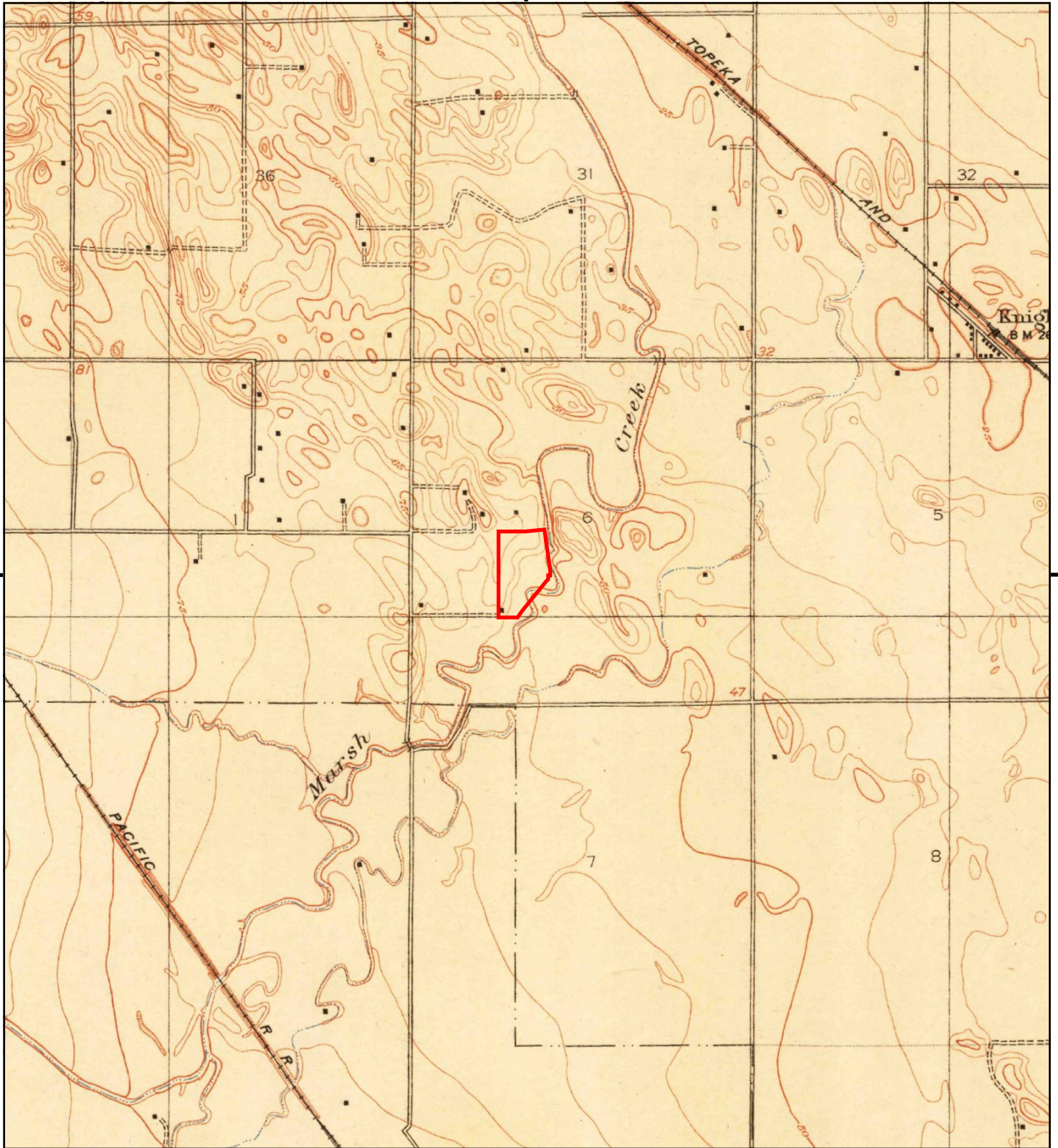
This report includes information from the following map sheet(s).



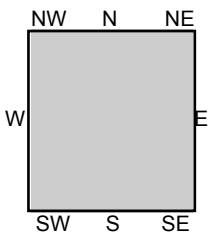
TP, Byron, 1916, 15-minute

SITE NAME: Hanson Ranch
ADDRESS: 251 Hanson Lane
Brentwood, CA 94513
CLIENT: Engeo Inc.





This report includes information from the following map sheet(s).



TP, Brentwood, 1914, 7.5-minute

SITE NAME: Hanson Ranch
ADDRESS: 251 Hanson Lane
Brentwood, CA 94513
CLIENT: Engeo Inc.





DRAFT

APPENDIX D

ENVIRONMENTAL DATA RESOURCES, INC.

Aerial Photo Decade Package



Hanson Ranch

251 Hanson Lane

Brentwood, CA 94513

Inquiry Number: 6226122.8

October 14, 2020

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

10/14/20

Site Name:

Hanson Ranch
251 Hanson Lane
Brentwood, CA 94513
EDR Inquiry # 6226122.8

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Adrianna Lundberg



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

| <u>Year</u> | <u>Scale</u> | <u>Details</u> | <u>Source</u> |
|-------------|--------------|---------------------------------|----------------------------------|
| 2016 | 1"=500' | Flight Year: 2016 | USDA/NAIP |
| 2012 | 1"=500' | Flight Year: 2012 | USDA/NAIP |
| 2009 | 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2006 | 1"=500' | Flight Year: 2006 | USDA/NAIP |
| 1998 | 1"=500' | Flight Date: August 22, 1998 | USDA |
| 1993 | 1"=500' | Acquisition Date: June 15, 1993 | USGS/DOQQ |
| 1984 | 1"=500' | Flight Date: June 29, 1984 | USDA |
| 1982 | 1"=500' | Flight Date: July 05, 1982 | USDA |
| 1979 | 1"=500' | Flight Date: August 16, 1979 | USDA |
| 1966 | 1"=500' | Flight Date: May 14, 1966 | USDA |
| 1963 | 1"=500' | Flight Date: July 15, 1963 | EDR Proprietary Aerial Viewpoint |
| 1958 | 1"=500' | Flight Date: August 09, 1958 | USDA |
| 1939 | 1"=500' | Flight Date: June 28, 1939 | USDA |

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

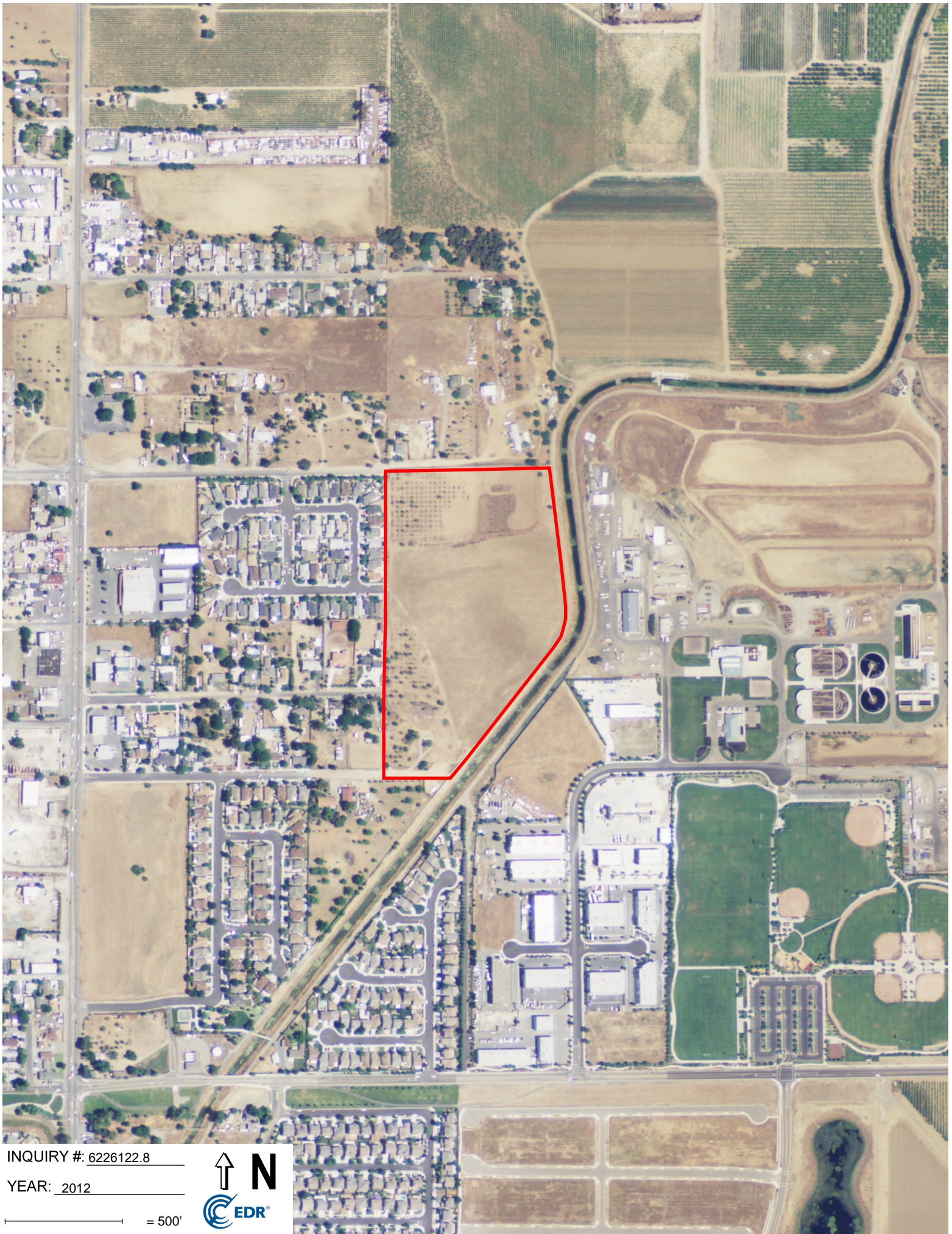


INQUIRY #: 6226122.8

YEAR: 2016

— = 500'





INQUIRY #: 6226122.8

YEAR: 2012

— = 500'





INQUIRY #: 6226122.8

YEAR: 2009

— = 500'





INQUIRY #: 6226122.8

YEAR: 2006

— = 500'





INQUIRY #: 6226122.8

YEAR: 1998

— = 500'





INQUIRY #: 6226122.8

YEAR: 1993

— = 500'





INQUIRY #: 6226122.8

YEAR: 1984

— = 500'



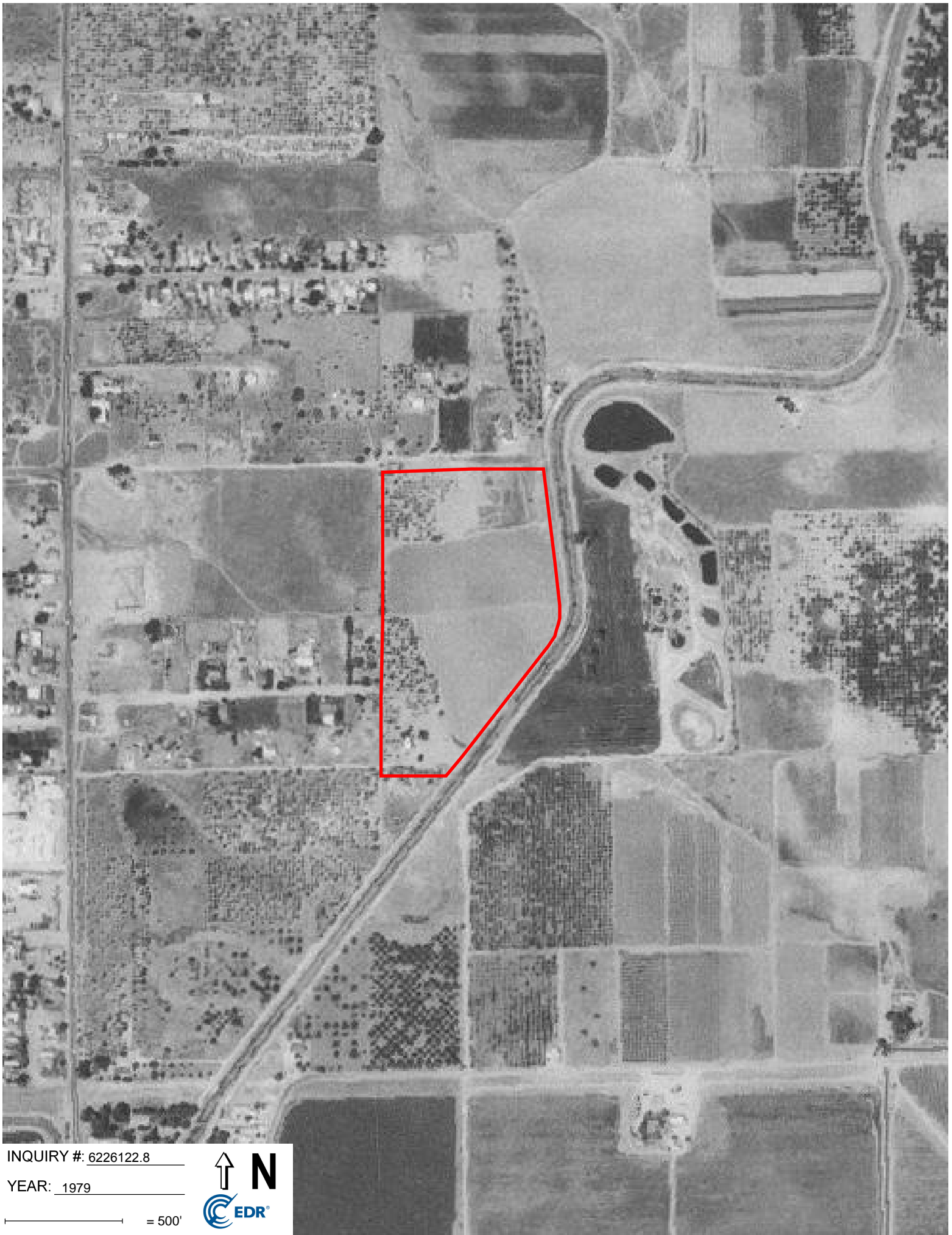


INQUIRY #: 6226122.8

YEAR: 1982

— = 500'





INQUIRY #: 6226122.8

YEAR: 1979

— = 500'





INQUIRY #: 6226122.8

YEAR: 1966

— = 500'





INQUIRY #: 6226122.8

YEAR: 1963

— = 500'





INQUIRY #: 6226122.8

YEAR: 1958

 = 500'





INQUIRY #: 6226122.8

YEAR: 1939

— = 500'






DRAFT

APPENDIX E

ENVIRONMENTAL DATA RESOURCES, INC.

Sanborn Map Report



Hanson Ranch
251 Hanson Lane
Brentwood, CA 94513

Inquiry Number: 6226122.3

October 14, 2020

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/14/20

Site Name:

Hanson Ranch
251 Hanson Lane
Brentwood, CA 94513
EDR Inquiry # 6226122.3

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Adrianna Lundberg



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Engeo Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 102C-4BE3-AA75

PO # P2020.002.260

Project Hanson Ranch

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 #: 102C-4BE3-AA75

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™

Limited Permission To Make Copies

Engeo Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice. Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.



DRAFT

APPENDIX F

ENVIRONMENTAL DATA RESOURCES, INC.

City Directory

Hanson Ranch

251 Hanson Lane
Brentwood, CA 94513

Inquiry Number: 6226122.5
October 16, 2020

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

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.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

Data by

infoUSA[®]

Copyright©2008
All Rights Reserved

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

| <u>Year</u> | <u>Target Street</u> | <u>Cross Street</u> | <u>Source</u> |
|-------------|-------------------------------------|--------------------------|------------------------------|
| 2017 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive |
| 2014 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive |
| 2010 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive |
| 2005 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive |
| 2000 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive |
| 1995 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive |
| 1992 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EDR Digital Archive |
| 1990 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Haines Criss-Cross Directory |
| 1985 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Haines Criss-Cross Directory |
| 1980 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Haines Criss-Cross Directory |
| 1975 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Haines Criss-Cross Directory |
| 1964 | <input type="checkbox"/> | <input type="checkbox"/> | General Telephone Co |
| 1961 | <input type="checkbox"/> | <input type="checkbox"/> | S and K Publications |
| 1954 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |

EXECUTIVE SUMMARY

Year Target Street Cross Street Source

FINDINGS

TARGET PROPERTY STREET

251 Hanson Lane
Brentwood, CA 94513

Year CD Image Source

HANSON LN

| | | | |
|------|--------|------------------------------|-----------------------------|
| 2017 | pg A1 | EDR Digital Archive | |
| 2014 | pg A2 | EDR Digital Archive | |
| 2010 | pg A3 | EDR Digital Archive | |
| 2005 | pg A4 | EDR Digital Archive | |
| 2000 | pg A5 | EDR Digital Archive | |
| 1995 | pg A6 | EDR Digital Archive | |
| 1992 | pg A7 | EDR Digital Archive | |
| 1990 | pg A8 | Haines Criss-Cross Directory | |
| 1985 | pg A9 | Haines Criss-Cross Directory | |
| 1980 | pg A10 | Haines Criss-Cross Directory | |
| 1975 | pg A11 | Haines Criss-Cross Directory | |
| 1964 | - | General Telephone Co | Street not listed in Source |
| 1961 | - | S and K Publications | Street not listed in Source |
| 1954 | - | Polk's City Directory | Street not listed in Source |

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

HANSON LN 2017

| | |
|-----|-------------------------------------|
| 61 | WILLIAMS SEPTIC TANK SEWER & ROOTER |
| 100 | AGUILAR, OTILIO |
| 101 | MEJIA, JUAN Q |
| 102 | ADAMS, LORI A |
| 104 | SPEARS, JAMES D |
| 106 | BROWN, MATTHEW D |
| 108 | HARRINGTON, JAMES M |
| 110 | UNDERWOOD, SHELBY S |
| 112 | RUFF, MICHAEL |
| 151 | RAYGOZA, ANTONIO E |
| 181 | CABALLERO, JUANA |
| 222 | LAZAR, KI |

HANSON LN 2014

| | |
|-----|--|
| 61 | OCCUPANT UNKNOWN, WILLIAMS SEPTIC TANK SEWER & ROOTER |
| 100 | AGUILAR, OTILIO |
| 101 | MEJIA, JUAN Q |
| 102 | OCCUPANT UNKNOWN, |
| 104 | SPEARS, JAMES D |
| 106 | GIARDINO, SHERRY L |
| 108 | OCCUPANT UNKNOWN, |
| 110 | LOPEZ, ANN M |
| 112 | OCCUPANT UNKNOWN, |
| 141 | RAYGOZA, ANTONIO |
| 151 | RAYGOZA, ANDRE C |
| 181 | CABALLERO, J |
| 222 | LAZAR, MARIAN E |
| 251 | HANSON, HENRY A |

HANSON LN 2010

61 OCCUPANT UNKNOWN,
100 AGUILAR, OTILIO
101 NAVARRO, PILAR J
102 GUTIERREZ, SAMUEL
104 SPEARS, JAMES D
106 RYAN, RANDY
110 CHINN, WILLIAM H
112 OCCUPANT UNKNOWN,
181 CABALLERO, J
222 LAZAR, MARIAN E
MDM ENTERPRISES
251 HANSON, HENRY A

HANSON LN 2005

| | |
|-----|--------------------|
| 61 | WILLIAMS, DARREN T |
| 100 | DELACRUZ, IVAN A |
| 101 | SHAW, CHERYL |
| 102 | GUTIERREZ, JESUS |
| 104 | SPEARS, JAMES D |
| 106 | MAKA, HOWARD L |
| 110 | CHINN, WILLIAM H |
| 112 | OCCUPANT UNKNOWN, |
| 151 | OCCUPANT UNKNOWN, |
| 181 | RIOS, PATRICIA |
| 222 | LAZAR, MICHAEL D |
| 251 | HANSON, HENRY A |

HANSON LN 2000

102 OCCUPANT UNKNOWN,
106 MAKA, HOWARD L
108 LEANA, J M
110 CHINN, WILLIAM H
112 RUFF, ERIC P
151 RAYGOZA, ANTONIO
181 ISON, DAN
222 LAZAR, MARIAN
251 HANSON, HENRY A

HANSON LN 1995

181 ISON, DAN
222 LAZAR, MARIAN

HANSON LN 1992

| | |
|-----|------------------|
| 63 | WILLIAMS, KEVIN |
| 151 | RAYGOZA, ANTONIO |
| 222 | LAZAR, MARIAN |

HANSON LN 1990

HANSON LN 94513
BRENTWOOD

| | | | |
|-----|--------------|----------|-------|
| 222 | LAZAR Marian | 534-2764 | 6 |
| ★ | 0 BUS | 1 RES | 0 NEW |

HANSON LN 1985

**HANSON LN 94513
BRENTWOOD**

| | | | |
|-------------|---------------------|-----------------|--------------|
| NO # | LAZAR MARIAN | 634-2784 | 6 |
| ★ | 0 BUS | 1 RES | 0 NEW |

HANSON LN 1980

**HANSON LN 94513
BRENTWOOD**

| | | |
|-------------|-----------------------|--------------------|
| NO # | GANSON MICHAEL | 634-2292 +0 |
| ★ | 0 BUS | 1 RES |
| | | 1 NEW |

HANSON LN 1975

HANSON LN 94513 BRENTWOOD

| | | | | | | | |
|----|---|--------|----------|---|---|----------|---|
| NO | # | HARGIS | A | D | | 634-1555 | 3 |
| NO | # | HARGIS | BERNIECE | | | 634-1555 | 3 |
| | * | 0 | BUS | | 2 | RES | 0 |
| | | | | | | NEW | |



DRAFT

APPENDIX ;

**QUALIFICATIONS OF ENVIRONMENTAL
PROFESSIONAL**

SHAWN MUNGER, CHG
Principal Geologist

EDUCATION

BS, Geology, U.C. Davis, 1985

EXPERIENCE

Years with ENGEO: 31
Years with Other Firms: 0

**REGISTRATIONS &
CERTIFICATIONS**

Certified Hydrogeologist, CA, 413
8 Hour HAZWOPER Training, CA,
160115576014
Professional Geologist, CA, 5810
Certified Environmental Manager,
NV, 1332
40 Hour HAZWOPER Training, CA,
100830513934

SPECIALIZATIONS

- Environmental Assessments and Remediation
- Environmental Restoration
- Water Quality Studies
- Water Wells/Hydrogeology

Since joining ENGEO in 1985, Shawn has been managing groundwater supply evaluations, hydrogeologic studies, chemical assessments, Phase I and II Site Assessment projects, UST site investigations, risk based corrective action (RBCA), VOC remediation, and agricultural impact evaluations. He serves as Principal-in-Charge or Project Manager for environmental and hazardous materials projects involving groundwater hydrology, contaminant fate and transport, and remediation. He is Principal-in-Charge of the environmental components of our on-call contracts with the City of Sacramento and the County of Sacramento.

Select Project Experience

14234 Saratoga Sunnyvale Road—Saratoga, CA

Project Geologist. Shawn performed Principal review of ENGEO's environmental documents. This 2.2-acre townhome site is planned for a new multi-family development comprising up to 20 units in 8 buildings. The site immediately borders Saratoga Creek and contains numerous mature trees, many of which are to be saved. Site challenges include shallow groundwater, creek bank stability, and the potential for liquefaction and lateral spreading.

Lenihan Dam Outlet Modification—Los Gatos, CA

Principal Geologist. Shawn provided technical advice, coordination, consultation, and review of ENGEO's documents to provide quality mitigation measures. The findings were presented to SCVWD and it was concluded that the stockpile was sufficient for transportation. This analysis led to significant project budget savings by avoiding removal and disposal at a solid waste disposal facility. The project consisted of a stockpile approximately 6,000 cubic yards that required profiling as requested by Santa Clara Valley Water District before use of as site backfill.

199 River Oaks Parkway—San Jose, CA

Principal in Charge. Shawn provided principal oversight, data analysis, and consultation regarding site characterization, risk evaluation, and demolition observation plans. The project consists of a proposed six-story podium structure with one level to be constructed below grade. The property is a former semiconductor facility that has received conditional closure from the Regional Water Quality Control Board and is approved for construction.

Riverside Avenue Property—Roseville, CA

Principal in Charge. Shawn provided principal oversight of a Phase II Environmental Site Assessments and site

characterization. The project site consists of an active auto sales and service facility. The historic use of the facility for industrial purposes resulted in soil and groundwater impacts beneath the site. The City of Roseville revised its plans for acquiring and redeveloping the site due to the identified soil and groundwater impacts.

1301 Standard Oil Ave—Pittsburg, CA

Principal in Charge. Shawn provided principal oversight of a Phase II Environmental Site Characterization. The property is an abandoned wastewater treatment plant with processing buildings, clarifier tanks, and sludge beds.

Pleasant Hill BART Station—Walnut Creek, CA

Principal in Charge. Shawn provided oversight, data analysis and consultation during the preparation of a Phase II Environmental Site Assessment. The property is an existing BART station that encompasses 20 acres, including the platform/station area, electrical facilities, a parking garage and additional paved parking areas.

County Crossings Property—Antioch, CA

Principal in Charge. Shawn provided environmental consultation and data review with regard to soil and groundwater contamination. Constituents of concern include petroleum hydrocarbons, nitrates and manganese. The approximately 264-acre site includes several former industrial facilities and petroleum pipelines. Soil and groundwater at the site has been impacted with petroleum hydrocarbons, nitrates and manganese. Planned uses include commercial, residential, retail, and a BART-oriented transit village. The center, which is currently in the entitlement phase, is estimated to break ground in 2011.

620 North Ninth Street—San Jose, CA

Principal in Charge. Shawn provided oversight of soil, groundwater and soil gas characterizations, risk evaluations and Remedial Action Plan preparation. Shawn also closely interacted with RWQCB staff to achieve approval for residential development. The property is a former fruit packing plant and food preparation facility. The proposed development consists of a single-family residential subdivision.

Westshore—Richmond, CA

Project Manager. Shawn conducted Phase I and II Site Assessments, risk evaluations and prepared a soil management plan. The property was a former automotive manufacturing plant proposed for a multi-unit condominium development, including a 6-story podium structure to include five residential floors with 269 units and one parking floor.

Mills Ranch—King City, CA

Principal in Charge. Shawn provided principal oversight of Phase I/II Environmental Site Assessments and risk evaluations. The approximate 80-acre property is used for agricultural cultivation and commercial uses. The proposed mixed-use development includes over 400 single-family residential lots.

Select Foods Site/Cross Creek—Hayward, CA

Principal in Charge. Shawn provided principal oversight, consultation, and data analysis. The property was a former processed food facility, a drum recycling business, battery manufacturing operation and a bus assembly plant. Following completion of soil remediation under RWQCB oversight, the property was developed into a single-family residential subdivision.

Arroyo Crossing—Livermore, CA

Principal in Charge. Shawn provided oversight, data analysis and regulatory consultation while ENGEO provided geotechnical and environmental engineering services for this 34-acre site. This former corporation yard and quarry site was developed into a single-family residential subdivision.

Renaissance Square—Concord, CA

Project Manager. Shawn provided consultation, data analysis, and field observation. This former automotive dealership was redeveloped as a five-story multi-family residential structure supported on slab-on-grade foundations, with two levels of below-grade parking. Petroleum hydrocarbon-impacted soil was encountered during excavation of the parking structure, which required characterization and remediation. Soil impacts were attributed to former sumps, USTs and hydraulic lifts.

Union Pacific Railroad Corridor—San Jose, CA

Project Manager. Shawn prepared a Phase I and II Environmental Site Assessment. Work included a site reconnaissance, historical records research and recovery of soil samples with laboratory analysis. Lead impacted soil was identified which required risk evaluation. This former 1800 lineal foot section of the former Union Pacific Railroad Corridor was proposed for mixed-use development.

Former SFPP Alignment—Concord, CA

Project Manager. Shawn prepared a Phase I and II Environmental Site Assessment. The site was a former ±6,500-foot corridor formerly occupied by the Southern Pacific Railroad. Kinder Morgan petroleum pipelines existed within an easement along the property. The southern portion of the site was crossed by East Bay Municipal Utilities District water distribution lines and a multi-lane highway overpass. The corridor was developed as a self-storage facility. Work included the recovery of soil and groundwater samples along the SP right of way.

Hercules Property—Hercules, CA

Project Manager. Shawn provided oversight of a Phase I Environmental Site Assessment, site asbestos survey, site characterization, and demolition observation/contaminant assessment. The project area consists of ±167 acres located near and along the southeastern shore of San Pablo Bay in Hercules. The property was once a portion of a 1300-acre manufacturing facility that was operated by DuPont from 1879 to 1913 and Hercules Incorporated from 1913 to 1979. The planned development includes single/multi-family residential development with some commercial components.

Highlands Ranch—Antioch, CA

Principal in Charge. Shawn provided oversight, data analysis, and collaboration with RWQCB personnel. The project site consists of a 140-acre portion of the former Chevron Los Medanos Tank Farm located in Pittsburg, California. The site was historically occupied by 24 crude oil tanks and four wax ponds. Remediation of the crude oil tank and wax pond locations was conducted according to a remedial action plan (RAP) and oversight was provided by the CRWQCB. Remediation was performed over a period of four months and consisted of excavating approximately 110,000 cubic yards of impacted soil and placing the material in windrows for ex-situ bioremediation.



DRAFT

APPENDIX E

NOISE IMPACT ANALYSIS REPORT

Noise Impact Analysis Report Hanson Lane Residential Project City of Brentwood, Contra Costa County, California

Prepared for:

MLC Holdings, Inc.

2603 Camino Ramon, Suite 140

San Ramon, CA 94583

925.516.5405

Contact: Paul Manyisha, Forward Planning Manager

Prepared by:

FirstCarbon Solutions

1350 Treat Boulevard, Suite 380

Walnut Creek, CA 94597

925.357.2562

Contact: Mary Bean, Project Director
Philip Ault, Director of Noise and Air Quality

Date: March 1, 2022

THIS PAGE INTENTIONALLY LEFT BLANK

Table of Contents

| | |
|--|-----------|
| Acronyms and Abbreviations | v |
| Section 1: Introduction | 1 |
| 1.1 - Purpose of Analysis and Study Objectives..... | 1 |
| 1.2 - Project Summary | 1 |
| Section 2: Noise and Vibration Fundamentals | 9 |
| 2.1 - Characteristics of Noise..... | 9 |
| 2.2 - Characteristics of Groundborne Vibration | 11 |
| Section 3: Regulatory Setting | 15 |
| 3.1 - Federal Regulations..... | 15 |
| 3.2 - State Regulations | 16 |
| 3.3 - Local Regulations | 17 |
| Section 4: Existing Noise Conditions | 21 |
| Section 5: Thresholds of Significance and Impact Analysis | 23 |
| 5.1 - Thresholds of Significance..... | 23 |
| 5.2 - Noise Levels That Would Conflict with Any Land Use Plan, Policy, or Regulation | 23 |
| 5.3 - Substantial Noise Increase in Excess of Standards..... | 25 |
| 5.4 - Groundborne Vibration/Noise Levels | 29 |
| 5.5 - Excessive Noise Levels from Airport Activity..... | 31 |

Appendix A: Noise Measurement and Modeling Data

List of Tables

| | |
|--|----|
| Table 1: Typical Construction Equipment Maximum Noise Levels, L_{max} | 10 |
| Table 2: Vibration Levels of Construction Equipment | 11 |
| Table 3: Summary of EPA-Recommended Noise Levels to Protect Public Welfare | 15 |
| Table 4: Federal Transit Administration Construction Vibration Impact Criteria | 16 |
| Table 5: Existing Ambient Noise Levels in the Project Vicinity..... | 21 |
| Table 6: Traffic Noise Model Results Summary..... | 24 |

List of Exhibits

| | |
|---|---|
| Exhibit 1: Regional Location Map..... | 3 |
| Exhibit 2: Local Vicinity Map, Aerial Base..... | 5 |
| Exhibit 3: Site Plan..... | 7 |

THIS PAGE INTENTIONALLY LEFT BLANK

ACRONYMS AND ABBREVIATIONS

| | |
|------------------|---|
| ADT | Average Daily Traffic |
| APN | Assessor’s Parcel Number |
| Caltrans | California Department of Transportation |
| CEQA | California Environmental Quality Act |
| CNEL | Community Noise Equivalent Level |
| dB | decibel |
| dBA | A-weighted decibel |
| DNL | day/night average sound level |
| du/acre | dwelling units per acre |
| EPA | United States Environmental Protection Agency |
| FCS | FirstCarbon Solutions |
| FHWA | Federal Highway Administration |
| FTA | Federal Transit Administration |
| IEC | International Electrotechnical Commission |
| in/sec | inch per second |
| L _{dn} | day/night average sound level |
| L _{eq} | equivalent sound level |
| L _{max} | maximum noise/sound level |
| MM | Mitigation Measure |
| PPV | peak particle velocity |
| rms | root mean square |
| SR | State Route |
| TTM | Tentative Tract Map |
| VdB | velocity in decibels |

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 1: INTRODUCTION

1.1 - Purpose of Analysis and Study Objectives

This Noise Impact Analysis Report has been prepared by FirstCarbon Solutions (FCS) to evaluate and disclose the potential off-site and on-site noise impacts associated with the proposed Hanson Lane Residential Project (proposed project). The following is provided in this report:

- A description of the study area, project site, and proposed project.
- Information regarding the fundamentals of noise and vibration.
- A description of the local noise guidelines and standards.
- An analysis of the potential short-term, construction-related noise and vibration impacts from the proposed project.
- An analysis of the potential long-term, operations-related noise and vibration impacts from the proposed project.

1.2 - Project Summary

The project site is located in the City of Brentwood in Contra Costa County, California (Exhibit 1). The approximate 19.8-acre project site is associated with Assessor's Parcel Number (APN) 018-230-0343 on the *Brentwood, California* United States Geological Survey (USGS) 7.5-minute Topographic Quadrangle Map. The project site is located at 251 Hanson Lane, east of State Route (SR) 4 and immediately west of Marsh Creek. Marsh Creek is a man-made drainage channel.

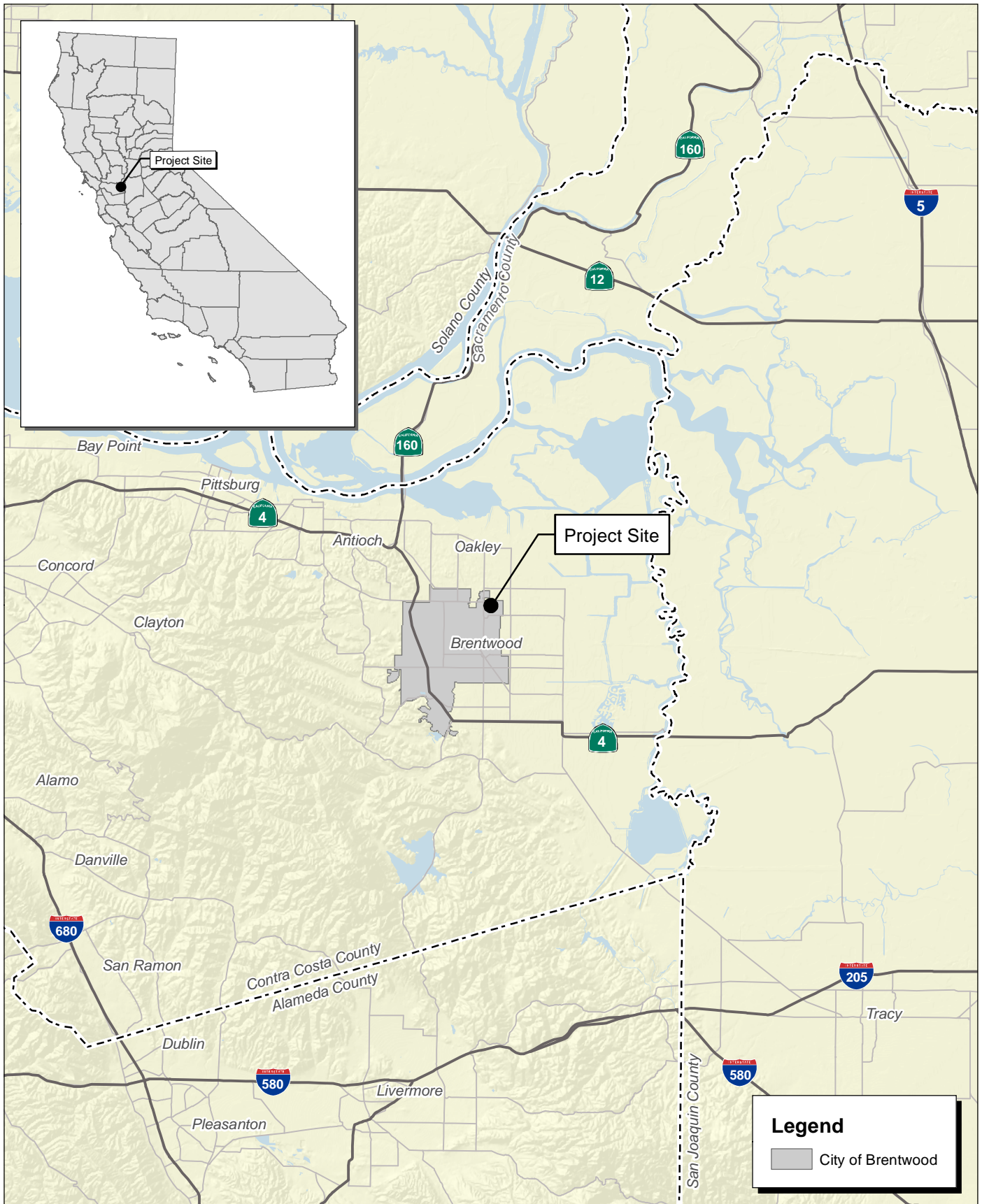
Regional access to the site is provided via SR-4, at the Lone Tree Way exit; local access to the site is provided via Brentwood Boulevard.

The project site currently contains a barn structure and several outbuildings. Mature trees are located in the southern portion of the site and grass and weed vegetation occur throughout the entire site. The project site is also bound by single-family residential uses to the west, Lone Tree Way to the north, Marsh Creek to the east, and large parcel rural residential property to the south (Exhibit 2).

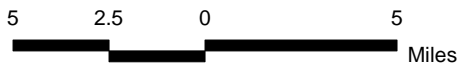
The project applicant, MLC Holdings, is proposing to subdivide the project site and develop 89 residential lots on the approximate 19.8-acre site (Exhibit 3). The proposed project would include the construction of 89 single-family dwelling units, providing 12 three-bedroom units, 39 four-bedroom units with a loft, and 38 four-bedroom units with an office.

The proposed project would also provide amenities such as an approximate 1.34-acre park and an open space area for residents to utilize. The proposed park would include a basketball court, a play structure with play surfacing, turf grass areas, and a picnic table area.

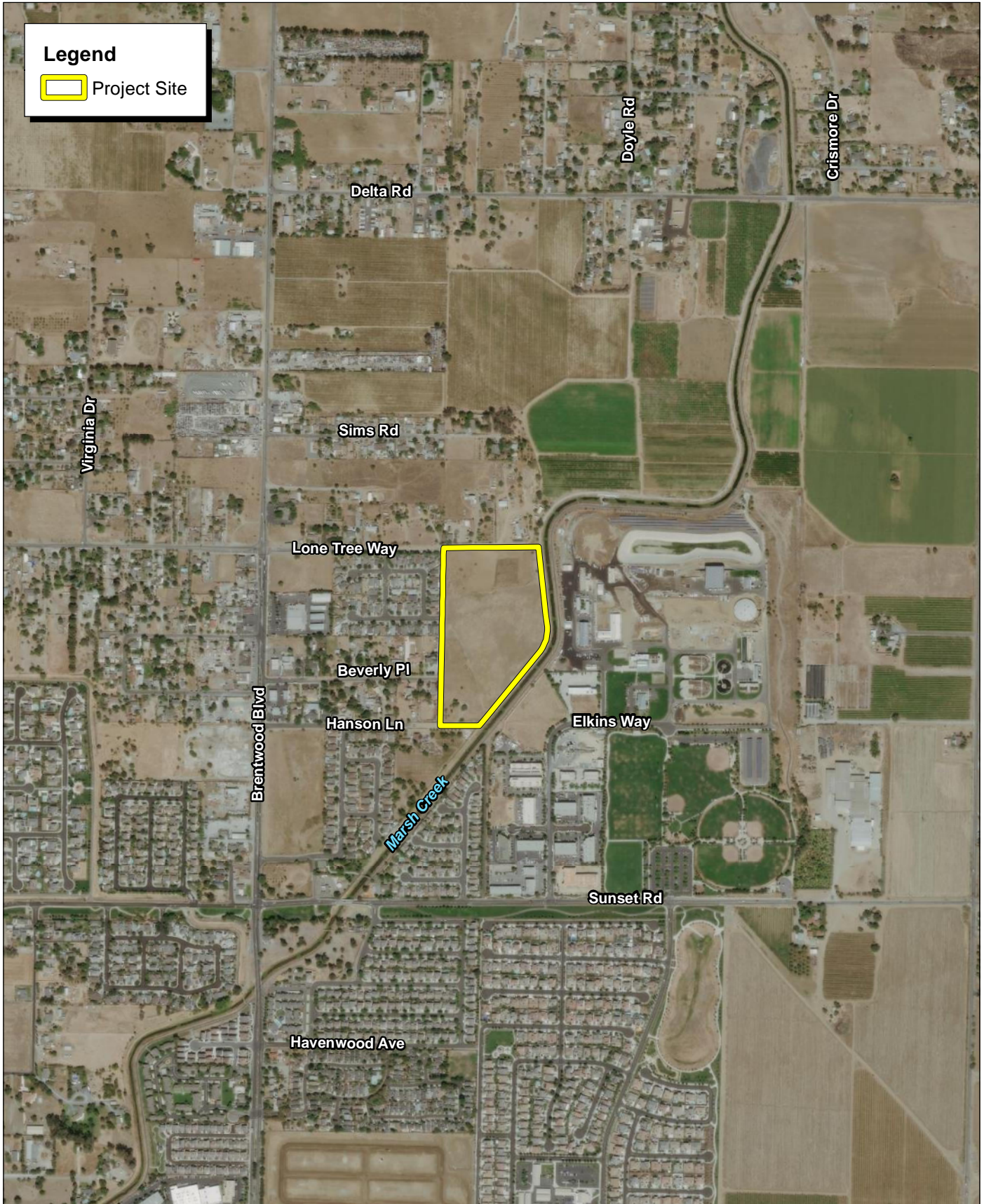
THIS PAGE INTENTIONALLY LEFT BLANK



Source: Census 2000 Data, The California Spatial Information Library (CaSIL).



THIS PAGE INTENTIONALLY LEFT BLANK



Source: ESRI Aerial Imagery.



THIS PAGE INTENTIONALLY LEFT BLANK



Source: MLC Holdings, Inc., September 30, 2021.



49400028 • 01/2022 | 3_site_plan.cdr

Exhibit 3
Site Plan

CITY OF BRENTWOOD
HANSON LANE RESIDENTIAL PROJECT
NOISE IMPACT ANALYSIS REPORT

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 2: NOISE AND VIBRATION FUNDAMENTALS

2.1 - Characteristics of Noise

Noise is generally defined as unwanted sound. Noise consists of any sound that may produce physiological or psychological damage and/or interfere with communication, work, rest, recreation, and sleep.

Several noise measurement scales exist which are used to describe noise in a particular location. A *decibel* (dB) is a unit of measurement that indicates the relative intensity of a sound. The 0 point on the dB scale is based on the lowest sound level that the healthy, unimpaired human ear can detect. Changes of 3 dB or less are only perceptible in laboratory environments. Audible increases in noise levels generally refer to a change of 3 dB or more as this level has been found to be barely perceptible to the human ear in outdoor environments. Sound levels in dB are calculated on a logarithmic basis. An increase of 10 dB represents a 10-fold increase in acoustic energy, while 20 dB is 100 times more intense, 30 dB is 1,000 times more intense. Each 10-dB increase in sound level is perceived as approximately a doubling of loudness. Sound intensity is normally measured through the A-weighted sound level (dBA). This scale gives greater weight to the frequencies of sound to which the human ear is most sensitive.

Noise impacts can be described in three categories. The first is audible impacts, which refers to increases in noise levels noticeable to humans. An audible increase in noise levels generally refers to a change of 3 dB or greater since this level has been found to be barely perceptible in exterior environments. The second category, potentially audible, refers to a change in the noise level between 1 and 3 dB. This range of noise levels has been found to be noticeable only in laboratory environments. The last category is changes in noise level of less than 1 dB, which are inaudible to the human ear. Only audible changes in existing ambient or background noise levels are considered potentially significant.

As noise spreads from a source, it loses energy so that the farther away the noise receiver is from the noise source, the lower the perceived noise level is. Geometric spreading causes the sound level to attenuate or be reduced, resulting in a 6-dB reduction in the noise level for each doubling of distance from a single point source of noise to the noise-sensitive receptor of concern. A long, closely spaced continuous line of vehicles along a roadway becomes a line source and produces a 3-dBA decrease in sound level for each doubling of distance. However, experimental evidence has shown that where sound from a highway propagates close to “soft” ground (e.g., plowed farmland, grass, crops, etc.), the most suitable drop off rate to use is not 3 dBA but rather 4.5 dBA per distance doubling. There are many ways to rate noise for various time periods, but an appropriate rating of ambient noise affecting humans also accounts for the annoying effects of sound. The predominant rating scales for human communities in the State of California are the equivalent continuous sound level (L_{eq}) and Community Noise Equivalent Level (CNEL) or the day/night average sound level (DNL) based on dBA. L_{eq} is the total sound energy of time-varying noise over a sample period. CNEL is the time-varying noise over a 24-hour period, with a 5-dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours) and a 10-dBA weighting factor applied to noise occurring

from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours). DNL is similar to the CNEL scale but without the adjustment for events occurring during the evening hours. CNEL and DNL are within one dBA of each other and are normally exchangeable. The noise adjustments are added to the noise events occurring during the more sensitive hours.

Other noise rating scales of importance when assessing the annoyance factor include the maximum noise level (L_{max}), which is the highest exponential time-averaged sound level that occurs during a stated time period. The noise environments discussed in this analysis are specified in terms of maximum levels denoted by L_{max} for short-term noise impacts. L_{max} reflects peak operating conditions and addresses the annoying aspects of intermittent noise.

Common sources of noise in urban environments include mobile sources, such as traffic, and stationary sources, such as mechanical equipment or construction operations.

Construction is performed in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on each construction site and, therefore, would change the noise levels as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table 1 shows typical noise levels of construction equipment as measured at a distance of 50 feet from the operating equipment. Construction period noise levels are higher than background ambient noise levels but they eventually cease once construction is complete.

Table 1: Typical Construction Equipment Maximum Noise Levels, L_{max}

| Category | Impact Device? (Yes/No) | Specification Maximum Sound Levels for Analysis (dBA at 50 feet) |
|----------------------|-------------------------|--|
| Pickup Truck | No | 55 |
| Pumps | No | 77 |
| Air Compressors | No | 80 |
| Backhoe | No | 80 |
| Front-End Loaders | No | 80 |
| Portable Generators | No | 82 |
| Dump Truck | No | 84 |
| Tractors | No | 84 |
| Auger Drill Rig | No | 85 |
| Concrete Mixer Truck | No | 85 |
| Cranes | No | 85 |
| Bulldozers | No | 85 |
| Excavators | No | 85 |
| Graders | No | 85 |

| Category | Impact Device? (Yes/No) | Specification Maximum Sound Levels for Analysis (dBA at 50 feet) |
|--------------------------|-------------------------|--|
| Jackhammers | Yes | 85 |
| Man Lift | No | 85 |
| Paver | No | 85 |
| Pneumatic Tools | No | 85 |
| Rollers | No | 85 |
| Scrapers | No | 85 |
| Concrete/Industrial Saws | No | 90 |
| Impact Pile Driver | Yes | 95 |
| Vibratory Pile Driver | No | 95 |

Notes:
dBA = A-weighted decibel
Source: Federal Highway Administration (FHWA). 2006. Highway Construction Noise Handbook. August.

2.2 - Characteristics of Groundborne Vibration

Groundborne vibrations consist of rapidly fluctuating motions within the ground that have an average motion of zero. Vibrating objects in contact with the ground radiate vibration waves through various soil and rock strata to the foundations of nearby buildings.

Although groundborne vibration can be felt outdoors, it is typically only an annoyance to people indoors where the associated effects of the shaking of a building can be notable. When assessing annoyance from groundborne vibration, vibration is typically expressed as root mean square (rms) velocity in units of decibels of 1 microinch per second. To distinguish these vibration levels referenced in decibels from noise levels referenced in decibels, the unit is written as “VdB.”

In extreme cases, excessive groundborne vibration has the potential to cause structural damage to buildings. Common sources of groundborne vibration include construction activities such as blasting, pile driving, and operating heavy earthmoving equipment. However, construction vibration impacts on building structures are generally assessed in terms of peak particle velocity (PPV). For purposes of this analysis, project-related impacts are expressed in terms of PPV. Typical vibration source levels from construction equipment are shown in Table 2.

Table 2: Vibration Levels of Construction Equipment

| Construction Equipment | PPV at 25 Feet (inches/second) | rms Velocity in Decibels (VdB) at 25 Feet |
|------------------------|--------------------------------|---|
| Water Trucks | 0.001 | 57 |
| Scraper | 0.002 | 58 |
| Bulldozer (Small) | 0.003 | 58 |
| Jackhammer | 0.035 | 79 |

| Construction Equipment | PPV at 25 Feet (inches/second) | rms Velocity in Decibels (VdB) at 25 Feet |
|--|--------------------------------|---|
| Concrete Mixer | 0.046 | 81 |
| Concrete Pump | 0.046 | 81 |
| Paver | 0.046 | 81 |
| Pickup Truck | 0.046 | 81 |
| Auger Drill Rig | 0.051 | 82 |
| Backhoe | 0.051 | 82 |
| Crane (Mobile) | 0.051 | 82 |
| Excavator | 0.051 | 82 |
| Grader | 0.051 | 82 |
| Loader | 0.051 | 82 |
| Loaded Trucks | 0.076 | 86 |
| Bulldozer (Large) | 0.089 | 87 |
| Caisson drilling | 0.089 | 87 |
| Vibratory Roller (Small) | 0.101 | 88 |
| Compactor | 0.138 | 90 |
| Clam Shovel Drop | 0.202 | 94 |
| Vibratory Roller (Large) | 0.210 | 94 |
| Pile Driver (Impact: typical) | 0.644 | 104 |
| Pile Driver (Impact: upper range) | 1.518 | 112 |
| <p>Notes: PPV = peak particle velocity VdB = velocity in decibels rms = root mean square Source: Compilation of scientific and academic literature, generated by Federal Transit Administration (FTA) and Federal Highway Administration (FHWA).</p> | | |

The propagation of groundborne vibration is not as simple to model as airborne noise. This is because noise in the air travels through a relatively uniform medium while groundborne vibrations travel through the Earth, which may contain significant geological differences. Factors that influence groundborne vibration include:

- **Vibration source:** Type of activity or equipment, such as impact or mobile, and depth of vibration source;
- **Vibration path:** Soil type, rock layers, soil layering, depth to water table, and frost depth; and
- **Vibration receiver:** Foundation type, building construction, and acoustical absorption.

Among these factors that influence groundborne vibration, there are significant differences in the vibration characteristics when the source is underground compared to at the ground surface. In addition, soil conditions are known to have a strong influence on the levels of groundborne vibration. Among the most important factors are the stiffness and internal damping of the soil and the depth to bedrock. Vibration propagation is more efficient in stiff clay soils than in loose sandy soils, and shallow rock seems to concentrate the vibration energy close to the surface and can result in groundborne vibration problems at large distance from the source. Factors such as layering of the soil and depth to the water table can have significant effects on the propagation of groundborne vibration. Soft, loose, sandy soils tend to attenuate more vibration energy than hard, rocky materials. Vibration propagation through groundwater is more efficient than through sandy soils. There are three main types of vibration propagation: surface, compression, and shear waves. Surface waves, or Rayleigh waves, travel along the ground's surface. These waves carry most of their energy along an expanding circular wave front, similar to ripples produced by throwing a rock into a pool of water. P-waves, or compression waves, are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal (i.e., in a "push-pull" fashion). P-waves are analogous to airborne sound waves. S-waves, or shear waves, are also body waves that carry energy along an expanding spherical wave front. However, unlike P-waves, the particle motion is transverse, or side-to-side, and perpendicular to the direction of propagation.

As vibration waves propagate from a source, the vibration energy decreases in a logarithmic nature and the vibration levels typically decrease by 6 VdB per doubling of the distance from the vibration source. As stated above, this drop off rate can vary greatly depending on the soil type, but it has been shown to be effective enough for screening purposes in order to identify potential vibration impacts that may need to be studied through actual field tests. The vibration level (calculated below as PPV) at a distance from a point source can generally be calculated using the vibration reference equation:

$$PPV = PPV_{ref} * (25/D)^n \text{ (in/sec)}$$

Where:

- PPV_{ref} = reference measurement at 25 feet from vibration source
- D = distance from equipment to property line
- n = vibration attenuation rate through ground

According to Section 7 of the Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual, an "n" value of 1.5 is recommended to calculate vibration propagation through typical soil conditions.¹

¹ Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 3: REGULATORY SETTING

3.1 - Federal Regulations

3.1.1 - United States Environmental Protection Agency

In 1972, Congress enacted the Noise Control Act. This Act authorized the United States Environmental Protection Agency (EPA) to publish descriptive data on the effects of noise and establish levels of sound “requisite to protect the public welfare with an adequate margin of safety.” These levels are separated into health (hearing loss levels) and welfare (annoyance levels) categories, as shown in Table 3. The EPA cautions that these identified levels are not standards because they do not take into account the cost or feasibility of the levels.

For protection against hearing loss, 96 percent of the population would be protected if sound levels are less than or equal to an $L_{eq}(24)$ of 70 dBA. The “(24)” signifies an L_{eq} duration of 24 hours. The EPA activity and interference guidelines are designed to ensure reliable speech communication at about 5 feet in the outdoor environment. For outdoor and indoor environments, interference with activity and annoyance should not occur if levels are below 55 dBA and 45 dBA, respectively.

Table 3: Summary of EPA-Recommended Noise Levels to Protect Public Welfare

| Effect | Level | Area |
|--|-------------------------|---|
| Hearing loss | $L_{eq}(24) \leq 70$ dB | All areas. |
| Outdoor activity interference and annoyance | $L_{dn} \leq 55$ dB | Outdoors in residential areas and farms and other outdoor areas where people spend widely varying amounts of time and other places in which quiet is a basis for use. |
| | $L_{eq}(24) \leq 55$ dB | Outdoor areas where people spend limited amounts of time, such as school yards, playgrounds, etc. |
| Indoor activity interference and annoyance | $L_{eq} \leq 45$ dB | Indoor residential areas. |
| | $L_{eq}(24) \leq 45$ dB | Other indoor areas with human activities such as schools, etc. |
| Notes: dB = decibel L_{dn} = day/night average sound level L_{eq} = equivalent continuous sound level | | |

3.1.2 - Federal Transit Administration

The FTA has established industry accepted standards for vibration impact criteria and impact assessment. These guidelines are published in its Transit Noise and Vibration Impact Assessment

Manual.² The FTA Guidelines include thresholds for construction vibration impacts for various structural categories as shown in Table 4.

Table 4: Federal Transit Administration Construction Vibration Impact Criteria

| Building Category | PPV (in/sec) | Approximate VdB |
|---|--------------|-----------------|
| I. Reinforced—Concrete, Steel or Timber (no plaster) | 0.5 | 102 |
| II. Engineered Concrete and Masonry (no plaster) | 0.3 | 98 |
| III. Non-Engineered Timber and Masonry Buildings | 0.2 | 94 |
| IV. Buildings Extremely Susceptible to Vibration Damage | 0.12 | 90 |

Notes:
VdB = velocity in decibels
PPV = peak particle velocity
in/sec = inch per second
Source: Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

3.2 - State Regulations

The State of California has established regulations that help prevent adverse impacts to occupants of buildings located near noise sources. Referred to as the “State Noise Insulation Standard,” it requires buildings to meet performance standards through design and/or building materials that would offset any noise source in the vicinity of the receptor. State regulations include requirements for the construction of new hotels, motels, apartment houses, and dwellings other than detached single-family dwellings that are intended to limit the extent of noise transmitted into habitable spaces. These requirements are found in the California Code of Regulations, Title 24 (known as the Building Standards Administrative Code), Part 2 (known as the California Building Code), Appendix Chapters 12 and 12A. For limiting noise transmitted between adjacent dwelling units, the noise insulation standards specify the extent to which walls, doors, and floor-ceiling assemblies must block or absorb sound. For limiting noise from exterior noise sources, the noise insulation standards set an interior standard of 45 dBA CNEL in any habitable room with all doors and windows closed. In addition, the standards require preparation of an acoustical analysis demonstrating the manner in which dwelling units have been designed to meet this interior standard, where such units are proposed in an area with exterior noise levels greater than 60 dBA CNEL.

The State has also established land use compatibility guidelines for determining acceptable noise levels for specified land uses. The City of Brentwood has adopted and modified those guidelines as described as follows.

² Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

3.3 - Local Regulations

The project site is located within the City of Brentwood and this analysis was performed using the City's noise regulations. The City of Brentwood addresses noise in the Noise Element of the Brentwood General Plan 20403 (General Plan) and in the City of Brentwood Municipal Code.⁴

City of Brentwood General Plan 2040

The land use compatibility guidelines for Community Noise in Brentwood are laid out in the City's General Plan. For example, new residential land uses are considered "normally acceptable" with exterior noise exposures of up to 60 dBA day/night average sound level (L_{dn}) and "conditionally compatible" where the exterior noise exposure is between 60 dBA and 75 dBA L_{dn} , such that the specified land use may be permitted only after detailed analysis of the noise reduction requirements and needed noise insulation features are included in the design.

The General Plan includes policies for the purpose of avoiding or mitigating impacts resulting from planned development projects within the City. The following policies are specific to noise and are applicable to the proposed project.

- Policy N 1-1** Ensure the noise compatibility of existing and future development when making land use planning decisions.
- Policy N 1-2** Require development and infrastructure projects to be consistent with the Land Use Compatibility for Community Noise Environments standards indicated in Table N-1 to ensure acceptable noise levels for existing and future development.
- Policy N 1-3** Require new development to mitigate excessive noise through best practices, including building location and orientation, building design features, placement of noise-generating equipment away from sensitive receptors, shielding of noise-generating equipment, placement of noise tolerant features between noise sources and sensitive receptors, and use of noise-minimizing materials such as rubberized asphalt.
- Policy N 1-4** Require mixed-use projects to minimize noise exposure for indoor areas of nearby residential areas through the use of noise attenuating building materials, engineering techniques, and site design practices. Site design practices may include locating mechanical equipment, loading bays, parking lots, driveways, and trash enclosures away from residential uses, and providing noise attenuating screening features on-site.

³ City of Brentwood. 2018. Envision Brentwood General Plan 2040. Website: <https://www.sanjoseca.gov/your-government/departments/planning-building-code-enforcement/planning-division/citywide-planning/envision-san-jos-2040-general-plan>. Accessed February 9, 2022.

⁴ Code of Ordinance. 2021. Brentwood Municipal Code. Website: <http://qcode.us/codes/brentwood/?view=desktop>. Accessed February 9, 2022.

Policy N 1-6 Require acoustical studies for new developments and transportation improvements that affect noise-sensitive uses such as schools, hospitals, libraries, group care facilities, convalescent homes, and residential areas

Policy N 1-7 For projects that are required by the California Environmental Quality Act (CEQA) to analyze noise impacts, the following criteria shall be used to determine the significance of those impacts:

Stationary and Non-Transportation Noise Sources

- A significant impact will occur if the project results in an exceedance of the noise level standards contained in this element, or the project will result in an increase in ambient noise levels by more than 3 dB, whichever is greater.

Transportation Noise Sources

- Where existing traffic noise levels are less than 60 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a +5 dB L_{dn} increase in roadway noise levels will be considered significant.
- Where existing traffic noise levels range between 60 and 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a +3 dB L_{dn} increase in roadway noise levels will be considered significant; and
- Where existing traffic noise levels are greater than 65 dB L_{dn} at the outdoor activity areas of noise-sensitive uses, a + 1.5 dB L_{dn} increase in roadway noise levels will be considered significant.

Policy N 1-11 Ensure that existing development is protected, to the greatest extent feasible, from noise impacts due to construction on adjacent or nearby properties.

Policy N 1-13 Control non-transportation related noise from site specific noise sources to the standards shown in Table N-2.

Policy N 1-14 Ensure that new development does not result in indoor noise levels exceeding 45dBA L_{dn} for residential uses.

Policy N 1-15 Require construction activities to comply with standard best practices (see Action N 1e).

| Land Use Category | Table N-1: Land Use Compatibility for Community Noise Environment | | | | | | |
|--|---|----|----|----|----|----|--|
| | Exterior Noise Exposure (L _{dn}) | | | | | | |
| | 55 | 60 | 65 | 70 | 75 | 80 | |
| Single-family Residential | | | | | | | |
| Multi-family Residential, Hotels, and Motels | | | | | | | |

| Land Use Category | Table N-1: Land Use Compatibility for Community Noise Environment | | | | | | |
|---|---|----|----|----|----|----|--|
| | Exterior Noise Exposure (L _{dn}) | | | | | | |
| | 55 | 60 | 65 | 70 | 75 | 80 | |
| Outdoor Sports and Recreation, Neighborhood Parks and Playgrounds | | | | | | | |
| Schools, Libraries, Churches, Hospitals, Nursing Homes | | | | | | | |
| Office Buildings, Business Commercial, and Professional | | | | | | | |
| Industrial | | | | | | | |
| | Normally Acceptable: Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special insulation requirements. | | | | | | |
| | Conditionally Acceptable: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. | | | | | | |
| | Unacceptable: New construction or development should generally not be undertaken because mitigation is usually not feasible to comply with noise element policies. | | | | | | |

| Land Use Receiving the Noise | Table N-2: Stationary (Non-Transportation) Noise Source Standards | | |
|------------------------------|---|-------------------------------------|----------------------------------|
| | Hourly Noise-Level Descriptor | Exterior Noise-Level Standard (dBA) | |
| | | Daytime (7:00 a.m.–10:00 p.m.) | Nighttime (10:00 p.m.–7:00 a.m.) |
| Residential | L _{eq} | 55 | 45 |
| | L _{max} | 70 | 65 |

Notes:

- a) The residential standards apply to all properties that are zoned for residential use. The exterior noise level standard is to be applied at the property line of the receiving land use or at a designated outdoor activity area (at the discretion of the Community Development Director) of the new development. For mixed-use projects, the exterior noise level standard may be waived (at the discretion of the Community Development Director) if the project does not include a designated activity area and mitigation of property line noise is not practical. These noise level standards do not apply to residential units established in conjunction with industrial or commercial uses (e.g., caretaker dwellings). The City can impose standards more restrictive than specified above based upon determination of existing low ambient noise levels.
- b) Each of the noise levels specified above shall be lowered by 5 dBA for tonal noises characterized by a whine, screech, or hum, noises consisting primarily of speech or music, or recurring impulsive noises. In no case shall mitigation be required to a level that is less than existing ambient noise levels, as determined through measurements conducted during the same operational period as the subject noise source.
- c) In situations where the existing noise level exceeds the noise levels indicated in the above table, any new noise source must include mitigation that reduces the noise level of the noise source to the existing level plus 3 dB.
- d) Exterior noise exposure level not exceeding 65 dB L_{dn} is allowed along the State Route 4 corridor, the Union Pacific Railroad corridor, and arterial roadways.

Brentwood Municipal Code

The City's Municipal Code Title 4.12, Article 9 (Noise Control Ordinance) also addresses noise controls for the City. Section 9.32.030 establishes exterior noise performance thresholds for various receiving land uses. For example, the exterior noise performance threshold for receiving residential land uses is 60 dBA L_{eq} , from 7:00 a.m. to 10:00 p.m. and is 45 dBA L_{eq} , from 10:00 p.m. to 7:00 a.m. These limits may not be exceeded for more than 30 minutes in any consecutive 60 minutes.

Section 9.32.050 restricts grading, site-improvement, and heavy construction equipment activities to the daytime hours between 7:00 a.m. and 3:30 p.m. Monday through Friday or until 5:30 p.m. with the express written approval of the City Engineer or designee. No such work shall be performed on Saturday, Sunday, City holidays, except that such work may be performed on Saturday between 8:00 a.m. and 5:00 p.m. with the express written approval of the City Engineer or designee.

The Municipal Code also prohibits any industrial operation or activity that causes ground vibration that is perceptible without instruments at the property line of the site.

SECTION 4: EXISTING NOISE CONDITIONS

The project site is surrounded by single-family housing and Lone Tree Way to the north; residential neighborhoods to the west; single-family housing, residential neighborhoods, Hanson Lane, and a window tinting service to the south; and Marsh Creek Regional Trail, Marsh Creek, a water treatment plant, and a school to the east.

The existing ambient noise levels on the project site were documented through a noise monitoring effort performed at the project site. The noise measurements were taken using a Larson-Davis Model LxT Type 2 precision sound level meter programmed in “slow” mode to record noise levels in “A” weighted form. The sound level meter and microphone were held approximately 5 feet above the ground and were equipped with a windscreen during all measurements. The sound level meter was calibrated before and after the monitoring using a Larson-Davis calibrator, Model CAL 150. The accuracy of the calibrator is maintained through a program established by the manufacturer and is traceable to the National Bureau of Standards. The unit meets the requirements of American National Standards Institute Standard S1.4-1984 and International Electrotechnical Commission (IEC) Standard 942: 1988 for Class 2 equipment. All noise level measurement equipment meets American National Standards Institute specifications for sound level meters (S1.4 1983 identified in Chapter 19.68.020.AA).

Three short-term noise measurements (10 minutes) were taken during the midday peak noise hour on Tuesday January 11, 2022, between 11:00 a.m. and 11:40 a.m. The dominant noise sources in the project vicinity include garbage truck and truck parking lot noise from the adjacent Brentwood Solid Waste Operations facility and traffic on local roadways, primarily from traffic on Hanson Lane and Lone Tree Way, which run along the southern and northern boundary of the project site respectively. The project site currently contains a barn structure and several outbuildings; there are no existing stationary noise sources on the site. Table 5 shows the summary of the noise measurement results.

Table 5: Existing Ambient Noise Levels in the Project Vicinity

| Site Location | Location Description | dBA, Leq | Primary Noise Sources |
|---|---|----------|---|
| ST-1 | Middle of project site, approximately level with Bonita Way but about 300 feet to the nearest residence | 42.8 | Vehicle traffic and parking lot noise from solid waste facility |
| ST-2 | eastern edge of property, about 450 feet northeast of Hanson Lane and adjacent to Marsh Creek | 44.4 | Vehicle traffic and parking lot noise from solid waste facility |
| ST-3 | Northeast corner of property, adjacent to Marsh Creek and across from Solid Waste Operations parking area | 45.0 | Vehicle traffic and parking lot noise from solid waste facility |
| <p>Notes: Leq = equivalent continuous sound level Source: FirstCarbon Solutions (FCS) 2022.</p> | | | |

THIS PAGE INTENTIONALLY LEFT BLANK

SECTION 5: THRESHOLDS OF SIGNIFICANCE AND IMPACT ANALYSIS

5.1 - Thresholds of Significance

According to the CEQA Guidelines updated Appendix G, to determine whether impacts related to noise and vibration are significant environmental effects, the following questions should be evaluated.

Would the proposed project:

- a) 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?
- b) Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- c) Generate excessive groundborne vibration or groundborne noise levels?
- d) 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?

5.2 - Noise Levels That Would Conflict with Any Land Use Plan, Policy, or Regulation

A significant impact would occur if the proposed single-family residential land use development would be exposed to transportation noise levels in excess of applicable land use compatibility standards. The City considers environments with ambient noise levels of up to 60 dBA DNL to be “normally acceptable” for new residential land use development. Additionally, according to General Plan Policy N-1.14, interior noise levels for all residential uses must not exceed 45 dBA DNL.

As previously discussed, the dominant noise source on the project site is garbage truck and truck noise from the adjacent Brentwood Solid Waste Operations facility and traffic on Hanson Lane and Lone Tree Way to the south and north respectively. As shown in Table 5, the average midday peak noise hour noise levels at the project site range from 42.8 dBA to 45.0 dBA L_{eq} . These noise levels are within the City’s “normally acceptable” range for new residential land use developments (up to 60 dBA DNL).

The FHWA highway traffic noise prediction model (FHWA RD-77-108) was used to evaluate existing and future traffic noise conditions in the vicinity of the project site. The projected traffic noise levels along roadways adjacent to the project site were analyzed to determine compliance with the City’s land use compatibility standards. The daily traffic volumes were obtained from the traffic analysis prepared for the project by TJKM.⁵ The resultant noise levels were weighed and summed over a 24-

⁵ TJKM, 2022. Draft Transportation Impact Analysis Report, Hanson Lane Residential Development. February.

hour period in order to determine the L_{dn} values. The traffic noise modeling input and output files are included in Appendix A of this document. Table 6 shows a summary of the traffic noise levels for Existing, Existing Plus Project, Near Term, Near Term Plus Project, Cumulative, and Cumulative Plus Project conditions as measured at 50 feet from the centerline of the outermost travel lane.

Table 6: Traffic Noise Model Results Summary

| Roadway Segment | L_{dn} (dBA) 50 feet from Centerline of Outermost Lane | | | | | |
|--|--|--------------------------------------|------------------------------|---------------------------|--|--------------------------------|
| | Existing (dBA) L_{dn} | Existing Plus Project (dBA) L_{dn} | Increase Over Existing (dBA) | Cumulative (dBA) L_{dn} | Cumulative Plus Project (dBA) L_{dn} | Increase Over Cumulative (dBA) |
| Lone Tree Way–east of Brentwood Boulevard | 51.7 | 54.2 | 2.5 | 53.6 | 55.2 | 1.6 |
| Hanson Lane–east of Brentwood Boulevard | 51.3 | 52.2 | 0.9 | 53.3 | 53.6 | 0.3 |
| Brentwood Boulevard–Delta Road to Lone Tree Way | 66.2 | 66.2 | 0.0 | 67.8 | 67.9 | 0.1 |
| Brentwood Boulevard–Lone Tree Way to Hanson Lane | 66.1 | 66.1 | 0.0 | 67.8 | 67.8 | 0.0 |
| Brentwood Boulevard–Hanson Lane to Sunset Road | 66.6 | 66.7 | 0.1 | 68.3 | 68.3 | 0.0 |

Notes:
dBA = A-weighted decibel
 L_{dn} = day/night average sound level
¹ Modeling results do not take into account mitigating features such as topography, vegetative screening, fencing, building design, or structure screening. Rather it assumes a worst-case of having a direct line of sight on flat terrain.
Source: FirstCarbon Solutions (FCS) 2022.

The modeling results in Table 6 show that traffic noise levels along the modeled roadway segment of Lone Tree Way and Hanson Lane, adjacent to the project site, would range up to 53.6 dBA L_{dn} under Cumulative Plus Project traffic conditions as measured at 50 feet from the centerline of the outermost travel lane. These traffic noise levels are within the City’s normally acceptable land use compatibility threshold of below 60 dBA L_{dn} for new residential development. In addition, residential construction built to current building code standards would ensure that the project would meet the interior noise level standard of 45 dBA L_{dn} . Therefore, the project would not conflict with the City’s noise land use compatibility standards and the impact would be less than significant.

The proposed project will not conflict with the City’s normally acceptable land use compatibility standard for this type of land use development. Thus, implementation of the proposed project would not result in a conflict with applicable land use compatibility standards, and this impact would be less than significant.

5.3 - Substantial Noise Increase in Excess of Standards

A significant impact would occur if the proposed project would generate a substantial temporary or permanent increase in ambient noise levels in the project vicinity in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies.

5.3.1 - Construction Noise Impacts

Short-Term Construction Impacts

For purposes of this analysis, a significant impact would occur if construction activities would result in a substantial temporary increase in ambient noise levels outside of the City's permissible hours for construction that would result in annoyance or sleep disturbance of nearby sensitive receptors. The City restricts grading, site-improvement, and heavy construction equipment activities to the daytime hours between 7:00 a.m. and 3:30 p.m. Monday through Friday or until 5:30 p.m. with the express written approval of the City Engineer or designee. No such work shall be performed on Saturday or Sunday or City holidays, except that such work may be performed on Saturday between 8:00 a.m. and 5:00 p.m. with the express written approval of the City Engineer or designee. Furthermore, Policy N 1-15 of the Noise Element requires construction activities to comply with standard best practices as outlined in Action N 1E.

Construction-related Traffic Noise

Noise impacts from construction activities associated with the proposed project would be a function of the noise generated by construction equipment, equipment location, sensitivity of nearby land uses, and the timing and duration of the construction activities. One type of short-term noise impacts that could occur during project construction would result from the increase in traffic flow on local streets associated with the transport of workers, equipment, and materials to and from the project site.

The transport of workers and construction equipment and materials to the project site would incrementally increase noise levels on access roads leading to the site. Because workers and construction equipment would use existing routes, noise from passing trucks would be similar to existing vehicle-generated noise on these local roadways. Typically, a doubling of the Average Daily Traffic (ADT) hourly volumes on a roadway segment is required in order to result in an increase of 3 dBA in traffic noise levels, which, as discussed in the Characteristics of Noise section above, is the lowest change that can be perceptible to the human ear in outdoor environments. Project-related construction trips would not be expected to double the hourly traffic volumes along any roadway segment in the project vicinity. For this reason, short-term intermittent noise from construction trips would be minor when averaged over a longer time period and would not result in a perceptible increase in hourly or daily average traffic noise levels in the project vicinity. Therefore, short-term construction-related noise impacts associated with the transportation of workers and equipment to the project site would be less than significant.

Construction Equipment Operational Noise

The second type of short-term noise impact is related to noise generated during construction on the project site. Construction is completed in discrete steps, each of which has its own mix of equipment

and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on the site and, therefore, the noise levels surrounding the site as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full-power operation followed by 3 or 4 minutes at lower power settings. Impact equipment, such as impact pile drivers, are not expected to be used during construction of this project.

The loudest phase of construction is typically the site preparation and grading phase, as that is when the loudest pieces of heavy construction equipment would operate. For example, the maximum noise level generated by each scraper is assumed to be 85 dBA L_{max} at 50 feet from this equipment. Each bulldozer would also generate 85 dBA L_{max} at 50 feet. The maximum noise level generated by graders is approximately 85 dBA L_{max} at 50 feet.

A conservative but reasonable assumption is that this equipment would operate simultaneously and continuously over at least a 1-hour period in the vicinity of the closest existing residential receptors but would move linearly over the project site as they perform their earth moving operations, spending a relatively short amount of time adjacent to any one receptor. A characteristic of sound is that each doubling of sound sources with equal strength increases a sound level by 3 dBA. Assuming that each piece of construction equipment operates at some distance from the other equipment, a reasonable worst-case combined noise level during this phase of construction would be 90 dBA L_{max} at a distance of 50 feet from the acoustic center of a construction area. The acoustical center reference is used because construction equipment must operate at some distance from one another on a project site and the combined noise level as measured at a point equidistant from the sources (acoustic center) would be the worst-case maximum noise level. These operations would be expected to result in a reasonable worst-case hourly average of 86 dBA L_{eq} at a distance of 50 feet from the acoustic center of a construction area. These worst-case construction noise levels would only occur during the site preparation phase of development.

The closest noise-sensitive receptor to the proposed project site is a single-family residence located directly north of the project site. The closest residence would be located approximately 39 feet from the acoustic center of construction activity where multiple pieces of heavy construction equipment would potentially operate at the project site. At this distance, worst-case construction noise levels could range up to approximately 85 dBA L_{max} intermittently and could have an hourly average of up to 81 dBA L_{eq} at the façade of the nearest single-family residential home.

Although there could be a relatively high single-event noise exposure potential causing an intermittent noise nuisance, the effect of construction activities on longer-term (hourly or daily) ambient noise levels would be small. However, construction activities could result in a temporary increase in ambient noise levels in the project vicinity that could result in annoyance or sleep disturbance of nearby sensitive receptors. Therefore, limiting construction activities to the daytime hours would reduce the effects of noise levels produced by these activities on longer-term (hourly or daily) ambient noise levels and would reduce the potential for noise-related annoyance or sleep disturbances at nearby sensitive receptors.

The City of Brentwood Municipal Code restricts grading, site-improvement, and heavy construction equipment activities to the daytime hours between 7:00 a.m. and 3:30 p.m. Monday through Friday or until 5:30 p.m. with the express written approval of the City Engineer or designee. No such work shall be performed on Saturday or Sunday or City holidays, except that such work may be performed on Saturday between 8:00 a.m. and 5:00 p.m. with the express written approval of the City Engineer or designee. Furthermore, Policy N1.15 of the Noise Element states that construction activities must comply with standard best practices shown in Action N1E. The following are the best practices shown in Action item N1E:

Action N 1e: During the environmental review process, determine if proposed construction will constitute a significant impact on nearby residents and, if necessary, require mitigation measures in addition to the standard best practice controls. Suggested best practices for control of construction noise include:

1. Construction period shall be less than 12 months.
2. Noise-generating construction activities, including truck traffic coming to and from the construction site for any purpose, shall be limited to between the hours of 7:00 a.m. and 6:00 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays. No construction shall occur on Sundays or City holidays.
3. All equipment driven by internal combustion engines shall be equipped with mufflers, which are in good condition and appropriate for the equipment.
4. The construction contractor shall utilize “quiet” models of air compressors and other stationary noise sources where technology exists.
5. At all times during project grading and construction, stationary noise-generating equipment shall be located as far as practicable from sensitive receptors and placed so that emitted noise is directed away from residences.
6. Unnecessary idling of internal combustion engines shall be prohibited.
7. Construction staging areas shall be established at locations that will create the greatest distance between the construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction activities, to the extent feasible.
8. The required construction-related noise mitigation plan shall also specify that haul truck deliveries are subject to the same hours specified for construction equipment.
9. Neighbors located adjacent to the construction site shall be notified of the construction schedule in writing.
10. The construction contractor shall designate a “noise disturbance coordinator” who will be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall be responsible for determining the cause of the noise complaint (e.g., starting too early, poor muffler, etc.) and instituting reasonable measures as warranted to correct the problem. A telephone number for the disturbance coordinator shall be conspicuously posted at the construction site.

Implementation of these City-required best management noise reduction measures (i.e., engine muffling, placement of construction equipment, and strategic stockpiling and staging of construction vehicles) and compliance with the City's limits on permissible hours for construction activity would ensure that construction noise impacts would not result in a substantial temporary increase that could result in sleep disturbance of nearby sensitive receptors. Therefore, no additional noise control measures would be required, and project-related construction noise impacts would be less than significant.

5.3.2 - Mobile Source Operational Noise Impacts

A significant impact would occur if project-generated traffic would result in a substantial increase in ambient noise levels compared with those that would exist without the project. The City considers that a significant impact would occur where existing traffic noise levels are less than 60 dBA L_{dn} at the outdoor activity areas of noise-sensitive uses and project-related traffic would result in a +5 dBA increase in the roadway noise levels. Also, where existing traffic noise levels range between 60 dBA and 65 dBA L_{dn} at the outdoor activity areas of noise-sensitive uses, a +3 dBA increase in roadway noise levels will be considered significant. Finally, where existing traffic noise levels are greater than 65 dBA L_{dn} at the outdoor activity areas of noise-sensitive uses, a +1.5 dBA increase in roadway noise levels will be considered significant.

As shown in Table 6, above, the highest traffic noise level increase with implementation of the project would occur along Lone Tree Way, east of Brentwood Boulevard, under existing plus project conditions. The modeling results show that traffic noise levels without the project would range up to 55.2 dBA L_{dn} as measured at 50 feet from the centerline of the outermost travel lane along this roadway segment. Since these without project traffic noise levels are less than 60 dBA L_{dn} along this roadway segment, a +5 dBA increase would be considered a significant increase in traffic noise levels. Since the project traffic along this roadway segment would result in up to a 2.5 dBA in traffic noise levels compared to traffic noise levels without the project, the increase would be less than significant.

As shown in Table 6, all other modeled roadway segments would experience less than a 1 dBA increase in traffic noise levels compared to traffic noise levels existing without the project. Therefore, project-related traffic would not result in a substantial permanent increase in noise levels, and the impact would be less than significant.

5.3.3 - Stationary Source Operational Noise Impacts

A significant impact would occur if operational noise levels generated by stationary noise sources at the proposed project site would result in a substantial permanent increase in ambient noise levels in excess of any of the noise performance thresholds established by the City of Brentwood. The City considers a significant impact to occur if the project would exceed the noise level standards contained in the Noise Element or if the project would result in an increase in ambient noise levels by more than 3 dB, whichever is greater. As shown in Table 5, the existing ambient noise levels in the project vicinity range from approximately 42 dBA to 45 dBA L_{eq} .

The City also establishes exterior noise performance thresholds for receiving residential land uses of 60 dBA L_{eq} from 7:00 a.m. to 10:00 p.m. and 45 dBA L_{eq} from 10:00 p.m. to 7:00 a.m. These limits may not be exceeded for more than 30 minutes in any consecutive 60 minutes.

The primary new stationary noise source associated with implementation of the project would be the new mechanical ventilation systems associated with the proposed residential uses. Potential impacts associated with this new noise source are analyzed below.

Mechanical Equipment Operations

At the time of this analysis, details were not available pertaining to proposed rooftop mechanical ventilation systems for the project; therefore, a reference noise level for typical mechanical ventilation systems was used. Noise levels from typical residential mechanical ventilation equipment range from 50 dBA to 70 dBA L_{eq} at a distance of approximately 3 feet.

Proposed mechanical ventilation systems could be located as close as approximately 30 feet from the nearest off-site receptors. At this distance, noise generated by proposed mechanical ventilation equipment would attenuate to below 51 dBA L_{eq} . In addition, the proposed project would include a minimum 6-foot-high sound wall along the property line adjoining off-site residential land uses. This sound wall would provide an expected minimum 8 dBA shielding reduction. Therefore, resulting reasonable worst-case mechanical system operational noise levels would be 43 dBA L_{eq} as measured at the nearest receiving residential property line.

These operational noise levels would not exceed the City's most restrictive nighttime noise performance threshold of 45 dBA L_{max} as measured at the nearest residential property. Therefore, proposed mechanical ventilation system operational noise levels would not result in a substantial permanent increase in noise levels in excess of established standards. The impact of mechanical ventilation equipment operational noise levels on sensitive off-site receptors would be less than significant.

5.4 - Groundborne Vibration/Noise Levels

A significant impact would occur if the project would generate excessive groundborne vibration or groundborne noise levels as measured at the nearest receptors.

Project-related construction and operational groundborne vibration impacts are analyzed separately below. Groundborne vibrations consist of rapidly fluctuating motions within the ground that have an average motion of zero. Vibrating objects in contact with the ground radiate vibration waves through various soil and rock strata to the foundations of nearby buildings.

In extreme cases, excessive groundborne vibration has the potential to cause structural damage to buildings. Common sources of groundborne vibration include construction activities such as blasting, pile driving, and operating heavy earthmoving equipment. In general, if groundborne vibration levels do not exceed levels considered to be perceptible, then groundborne noise levels would not be perceptible in most interior environments. Therefore, this analysis focuses on determining exceedances of groundborne vibration levels.

In regard to ongoing, operational activity, the Municipal Code prohibits any industrial operation or activity that causes ground vibration that is perceptible without instruments at the property line of the site. For temporary construction activity, the City of Brentwood has not adopted a quantitative provision addressing construction-related groundborne vibration levels. Therefore, for purposes of this analysis, the FTA's vibration impact criteria are utilized. The FTA has established industry accepted standards for vibration impact assessment in its Transit Noise and Vibration Impact Assessment Manual.⁶ These guidelines are summarized in Table 4.

5.4.1 - Short-term Construction Vibration Impacts

A significant impact would occur if the project construction activities would generate groundborne vibration levels in excess of levels established by the FTA's Construction Vibration Damage Criteria as measured at existing structures in the project vicinity.

Of the variety of equipment used during construction, small vibratory rollers that are anticipated to be used in the construction of the internal streets of the project would produce the greatest groundborne vibration levels. Graders produce groundborne vibration levels ranging up to 0.101 in/sec PPV at 25 feet from the operating equipment.

The nearest off-site structure to areas where small vibratory rollers would operate is the shed building located adjacent to the northwest corner of the project site, south of Lone Tree Way. This structure would be located approximately 25 feet from the nearest construction footprint where small vibratory rollers would potentially operate. At this distance, groundborne vibration levels could range up to 0.101 in/sec PPV from operation of a small vibratory roller. This is well below the FTA's Construction Vibration Impact Criteria of 0.2 in/sec PPV for this type of structure, a building of non-engineered timber construction.

Therefore, project construction activities would not generate groundborne vibration levels in excess of the FTA's criteria, and impacts would be considered less than significant as measured at the nearest receiving structures in the project vicinity. Project construction-related groundborne vibration impacts would be less than significant.

5.4.2 - Operational Vibration Impacts

A significant impact would occur if the proposed project would generate excessive groundborne vibration or groundborne noise levels. The Municipal Code also prohibits any industrial operation or activity that causes ground vibration that is perceptible without instruments at the property line of the site.

Implementation of the proposed project would not include any permanent sources that would generate groundborne vibration levels that could be noticeable without instruments at the lot line of the project site. In addition, there are no existing significant permanent sources of groundborne vibration in the project vicinity. Therefore, project operations would not generate permanent excessive groundborne vibration levels or expose proposed uses to excessive groundborne vibration levels, and operational groundborne vibration impacts would be less than significant.

⁶ Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. September.

5.5 - Excessive Noise Levels from Airport Activity

A significant impact would occur if the proposed project would expose people residing or working in the project area to excessive noise levels for a project located within the vicinity of a private airstrip or an Airport Land Use Compatibility Plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport.

The nearest airport to the project site is the Byron Airport, located 9.1 miles southeast of the project site. At this distance, the project site is located well outside of the 65 dBA CNEL airport noise contours. While aircraft noise is occasionally audible on the project site from aircraft flyovers, aircraft noise associated with nearby airport activity would not expose people residing or working near the project site to excessive noise levels. Therefore, implementation of the proposed project would not expose persons residing or working in the project vicinity to noise levels from airport activity that would be in excess of normally acceptable standards for residential land use development, and there would be no project impact associated with airport noise.

THIS PAGE INTENTIONALLY LEFT BLANK

**Appendix A:
Noise Measurement and Modeling Data**

THIS PAGE INTENTIONALLY LEFT BLANK

Project Number: 4940.0028
 Project Name: Hanson Lane
 Test Personnel: Spencer Pignotti

Sheet ___ of ___

Noise Measurement Survey

Site Number: ST-1 Date: 1/11/2022 Time: From 10:56 am To 11:06 am

Site Location: Middle of project site, approximately level with Bonita Way but about 300 feet to the nearest residence

Primary Noise Sources: Garbage truck and truck back up beeper and start up noise from nearby Brentwood Solid Waste Operations facility

Measurement Results

| | dBA |
|------|------|
| Leq | 42.8 |
| Lmax | 66.4 |
| Lmin | 38.1 |
| L5 | 46.9 |
| L10 | 45.7 |
| L50 | 41.8 |
| L90 | 39.4 |
| Ldn | |
| CNEL | |

Observed Noise Sources/Events

| Time | Noise Source/Event | dBA |
|------|--------------------|-----|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Comments: _____

Equipment: Larson Davis LxT-1 _____ Measured Difference: 0.02 dBA
 Settings: A-Weighted Other _____ Slow Fast Windscreen

Atmospheric Conditions:

| Maximum Wind Velocity (mph) | Average Wind Velocity (mph) | Temperature (F) | Relative Humidity (%) | |
|---|-----------------------------|-----------------|-----------------------|--|
| 2.1 | 1.0 | 66 | | |
| Comments: Partly cloudy day with little to no winds | | | | |

Summary

File Name on Meter LxT_Data.172.s
 File Name on PC LxT_0004397-20220111 105601-LxT_Data.172.ldbin
 Serial Number 0004397
 Model SoundTrack LxT®
 Firmware Version 2.301
 User
 Location
 Job Description
 Note

Measurement

Description
 Start 2022-01-11 10:56:01
 Stop 2022-01-11 11:06:22
 Duration 00:10:21.1
 Run Time 00:10:21.1
 Pause 00:00:00.0
 Pre-Calibration 2022-01-11 10:55:45
 Post-Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamplifier PRMLxT2B
 Microphone Correction Off
 Integration Method Linear
 Overload 140.9 dB
 Under Range Peak A C Z
 Under Range Limit 97.1 94.1 99.1 dB
 35.6 33.6 41.6 dB
 Noise Floor 23.1 23.6 30.8 dB

Results

LAeq 42.8
 LAE 70.7
 EA 1.319 µPa²h
 EA8 61.154 µPa²h
 EA40 305.772 µPa²h
 LApeak (max) 2022-01-11 10:57:50 80.3 dB
 LASmax 2022-01-11 10:56:01 66.4 dB
 LASmin 2022-01-11 11:03:02 38.1 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

Community Noise Ldn LDay 07:00-22:00 LNight 22:00-07:00 Lden LDay 07:00-19:00 LEvening 19:00-22:00 LNight 22:00-07:00
 42.8 42.8 -99.9 42.8 42.8 -99.9 -99.9

LCeq 57.8 dB
 LAeq 42.8 dB
 LCeq - LAeq 15.0 dB
 LAleq 57.1 dB
 LAeq 42.8 dB
 LAleq - LAeq 14.3 dB

| | A | | C | | Z | |
|------------|------|---------------------|------|------------|----|------------|
| | dB | Time Stamp | dB | Time Stamp | dB | Time Stamp |
| Leq | 42.8 | | 57.8 | | | |
| Ls(max) | 66.4 | 2022/01/11 10:56:01 | | | | |
| Ls(min) | 38.1 | 2022/01/11 11:03:02 | | | | |
| Lpeak(max) | 80.3 | 2022/01/11 10:57:50 | | | | |

Overload Count 0
 Overload Duration 0.0 s

Dose Settings

Dose Name OSHA-1 OSHA-2
 Exchange Rate 5 5 dB
 Threshold 90 80 dB
 Criterion Level 90 90 dB
 Criterion Duration 8 8 h

Results

Dose -99.94 -99.94 %
 Projected Dose -99.94 -99.94 %
 TWA (Projected) -99.9 -99.9 dB
 TWA (t) -99.9 -99.9 dB
 Lep (t) 26.2 26.2 dB

Statistics

LA5.00 46.9 dB
 LA10.00 45.7 dB
 LA33.30 42.6 dB
 LA50.00 41.8 dB
 LA66.60 41.0 dB
 LA90.00 39.4 dB

Site Number: ST-2 Date: 1/11/2022 Time: From 11:10 am To 11:20 am

Site Location: eastern edge of property, about 450 feet northeast of Hanson Lane and adjacent to Marsh Creek

Primary Noise Sources: Garbage truck and truck back up beeper and start up noise from nearby Brentwood Solid Waste Operations facility

Measurement Results

| | dBA |
|------|------|
| Leq | 44.4 |
| Lmax | 53.3 |
| Lmin | 40.1 |
| L5 | 47.1 |
| L10 | 46.4 |
| L50 | 43.8 |
| L90 | 41.6 |
| Ldn | |
| CNEL | |

Observed Noise Sources/Events

| Time | Noise Source/Event | dBA |
|------|--------------------|-----|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Comments: _____

Equipment: Larson Davis LxT-1 _____ Measured Difference: 0.02 dBA
 Settings: A-Weighted Other _____ Slow Fast Windscreen

Atmospheric Conditions:

| Maximum Wind Velocity (mph) | Average Wind Velocity (mph) | Temperature (F) | Relative Humidity (%) | |
|---|-----------------------------|-----------------|-----------------------|--|
| 2.1 | 1.0 | 66 | | |
| Comments: Partly cloudy day with little to no winds | | | | |

Summary

File Name on Meter LxT_Data.173.s
 File Name on PC LxT_0004397-20220111 111055-LxT_Data.173.ldbin
 Serial Number 0004397
 Model SoundTrack LxT®
 Firmware Version 2.301
 User
 Location
 Job Description
 Note

Measurement

Description
 Start 2022-01-11 11:10:55
 Stop 2022-01-11 11:20:56
 Duration 00:10:00.5
 Run Time 00:08:02.7
 Pause 00:01:57.8
 Pre-Calibration 2022-01-11 10:55:34
 Post-Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamplifier PRMLxT2B
 Microphone Correction Off
 Integration Method Linear
 Overload 140.9 dB
 Under Range Peak A C Z
 Under Range Limit 97.1 94.1 99.1 dB
 35.6 33.6 41.6 dB
 Noise Floor 23.1 23.6 30.8 dB

Results

LAeq 44.4
 LAE 71.3
 EA 1.489 µPa²h
 EA8 88.833 µPa²h
 EA40 444.165 µPa²h
 LApeak (max) 2022-01-11 11:12:05 82.3 dB
 LASmax 2022-01-11 11:12:05 53.3 dB
 LASmin 2022-01-11 11:20:44 40.1 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

Community Noise Ldn LDay 07:00-22:00 LNight 22:00-07:00 Lden LDay 07:00-19:00 LEvening 19:00-22:00 LNight 22:00-07:00
 44.4 44.4 -99.9 44.4 44.4 -99.9 -99.9

LCeq 59.5 dB
 LAeq 44.4 dB
 LCeq - LAeq 15.0 dB
 LAleq 49.1 dB
 LAeq 44.4 dB
 LAleq - LAeq 4.7 dB

| A | | C | | Z | |
|------|---------------------|------|------------|----|------------|
| dB | Time Stamp | dB | Time Stamp | dB | Time Stamp |
| 44.4 | | 59.5 | | | |
| 53.3 | 2022/01/11 11:12:05 | | | | |
| 40.1 | 2022/01/11 11:20:44 | | | | |
| 82.3 | 2022/01/11 11:12:05 | | | | |

Overload Count 0
 Overload Duration 0.0 s

Dose Settings

Dose Name OSHA-1 OSHA-2
 Exchange Rate 5 5 dB
 Threshold 90 80 dB
 Criterion Level 90 90 dB
 Criterion Duration 8 8 h

Results

Dose -99.94 -99.94 %
 Projected Dose -99.94 -99.94 %
 TWA (Projected) -99.9 -99.9 dB
 TWA (t) -99.9 -99.9 dB
 Lep (t) 26.7 26.7 dB

Statistics

LA5.00 47.1 dB
 LA10.00 46.4 dB
 LA33.30 44.8 dB
 LA50.00 43.8 dB
 LA66.60 43.1 dB
 LA90.00 41.6 dB

Site Number: ST-3 Date: 1/11/2022 Time: From 11:24 am To 11:35 am

Site Location: Northeast corner of property, adjacent to Marsh Creek and across from Solid Waste Operations parking area

Primary Noise Sources: Garbage truck and truck back up beeper and start up noise from nearby Brentwood Solid Waste Operations facility

Measurement Results

| | dBA |
|------|------|
| Leq | 45.0 |
| Lmax | 59.0 |
| Lmin | 38.0 |
| L5 | 50.8 |
| L10 | 47.3 |
| L50 | 40.7 |
| L90 | 38.9 |
| Ldn | |
| CNEL | |

Observed Noise Sources/Events

| Time | Noise Source/Event | dBA |
|------|--------------------|-----|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Comments: _____

Equipment: Larson Davis LxT-1 _____ Measured Difference: 0.02 dBA
 Settings: A-Weighted Other _____ Slow Fast Windscreen

Atmospheric Conditions:

| Maximum Wind Velocity (mph) | Average Wind Velocity (mph) | Temperature (F) | Relative Humidity (%) | |
|---|-----------------------------|-----------------|-----------------------|--|
| 2.1 | 1.0 | 66 | | |
| Comments: Partly cloudy day with little to no winds | | | | |

Summary

File Name on Meter LxT_Data.174.s
 File Name on PC LxT_0004397-20220111 112414-LxT_Data.174.ldbin
 Serial Number 0004397
 Model SoundTrack LxT®
 Firmware Version 2.301
 User
 Location
 Job Description
 Note

Measurement

Description
 Start 2022-01-11 11:24:14
 Stop 2022-01-11 11:35:20
 Duration 00:11:05.5
 Run Time 00:11:05.5
 Pause 00:00:00.0
 Pre-Calibration 2022-01-11 10:55:34
 Post-Calibration None
 Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
 Peak Weight A Weighting
 Detector Slow
 Preamplifier PRMLxT2B
 Microphone Correction Off
 Integration Method Linear
 Overload 140.9 dB

| | A | C | Z |
|-------------------|------|------|---------|
| Under Range Peak | 97.1 | 94.1 | 99.1 dB |
| Under Range Limit | 35.6 | 33.6 | 41.6 dB |
| Noise Floor | 23.1 | 23.6 | 30.8 dB |

Results

LAeq 45.0
 LAE 73.3
 EA 2.351 µPa²h
 EA8 101.729 µPa²h
 EA40 508.645 µPa²h
 LApeak (max) 2022-01-11 11:25:27 87.9 dB
 LASmax 2022-01-11 11:25:27 59.0 dB
 LASmin 2022-01-11 11:34:17 38.0 dB
 SEA -99.9 dB

LAS > 85.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LAS > 115.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 135.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 137.0 dB (Exceedance Counts / Duration) 0 0.0 s
 LApeak > 140.0 dB (Exceedance Counts / Duration) 0 0.0 s

Community Noise Ldn LDay 07:00-22:00 LNight 22:00-07:00 Lden LDay 07:00-19:00 LEvening 19:00-22:00 LNight 22:00-07:00
 45.0 45.0 -99.9 45.0 45.0 -99.9 -99.9

LCeq 59.2 dB
 LAeq 45.0 dB
 LCeq - LAeq 14.1 dB
 LAleq 50.3 dB
 LAeq 45.0 dB
 LAleq - LAeq 5.3 dB

| A | | C | | Z | |
|------|---------------------|------|------------|----|------------|
| dB | Time Stamp | dB | Time Stamp | dB | Time Stamp |
| 45.0 | | 59.2 | | | |
| 59.0 | 2022/01/11 11:25:27 | | | | |
| 38.0 | 2022/01/11 11:34:17 | | | | |
| 87.9 | 2022/01/11 11:25:27 | | | | |

Overload Count 0
 Overload Duration 0.0 s

Dose Settings

| Dose Name | OSHA-1 | OSHA-2 |
|--------------------|--------|--------|
| Exchange Rate | 5 | 5 dB |
| Threshold | 90 | 80 dB |
| Criterion Level | 90 | 90 dB |
| Criterion Duration | 8 | 8 h |

Results

Dose -99.94 -99.94 %
 Projected Dose -99.94 -99.94 %
 TWA (Projected) -99.9 -99.9 dB
 TWA (t) -99.9 -99.9 dB
 Lep (t) 28.7 28.7 dB

Statistics

LA5.00 50.8 dB
 LA10.00 47.3 dB
 LA33.30 42.6 dB
 LA50.00 40.7 dB
 LA66.60 39.9 dB
 LA90.00 38.9 dB

TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022
ROADWAY SEGMENT: Lone Tree Way - east of Brentwood Boulevard
NOTES: Hanson Lane Residential Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 890 SPEED (MPH): 30 GRADE: .5

| | TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------|----------------------------------|-------|
| | DAY | NIGHT |
| | --- | ----- |
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 51.65

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 0.0 |

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022
ROADWAY SEGMENT: Hanson Lane - east of Brentwood Boulevard
NOTES: Hanson Lane Residential Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 830 SPEED (MPH): 30 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 51.35

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 0.0 |

TABLE Existing-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Delta Road to Lone Tree Way

NOTES: Hanson Lane Residential Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12600 SPEED (MPH): 40 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.16

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 66.8 | 143.3 | 308.5 |

TABLE Existing-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022
ROADWAY SEGMENT: Brentwood Boulevard - Lone Tree Way to Hanson Lane
NOTES: Hanson Lane Residential Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14300 SPEED (MPH): 40 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.13

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 156.2 | 335.6 |

TABLE Existing-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Hanson Lane to Sunset Road

NOTES: Hanson Lane Residential Project - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14000 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | NIGHT ----- |
|----------|------------|----------------|
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.61

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|-----------------|-----------------|-----------------|
| 70 Ldn ----- | 65 Ldn ----- | 60 Ldn ----- | 55 Ldn ----- |
| 0.0 | 71.6 | 153.7 | 331.0 |

TABLE Existing plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Lone Tree Way - east of Brentwood Boulevard

NOTES: Hanson Lane Residential Project - Existing plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1600 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY | NIGHT |
|----------|-------|-------|
| | --- | ----- |
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 54.20

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 0.0 |

TABLE Existing plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022
ROADWAY SEGMENT: Hanson Lane - east of Brentwood Boulevard
NOTES: Hanson Lane Residential Project - Existing plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1000 SPEED (MPH): 30 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 52.16

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 0.0 |

TABLE Existing plus Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Delta Road to Lone Tree Way

NOTES: Hanson Lane Residential Project - Existing plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12700 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | NIGHT ----- |
|----------|------------|----------------|
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.19

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|-----------------|-----------------|-----------------|
| 70 Ldn ----- | 65 Ldn ----- | 60 Ldn ----- | 55 Ldn ----- |
| 0.0 | 67.1 | 144.1 | 310.2 |

TABLE Existing plus Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Lone Tree Way to Hanson Lane

NOTES: Hanson Lane Residential Project - Existing plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14300 SPEED (MPH): 40 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.13

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 73.3 | 156.2 | 335.6 |

TABLE Existing plus Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Hanson Lane to Sunset Road

NOTES: Hanson Lane Residential Project - Existing plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14200 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | NIGHT ----- |
|----------|------------|----------------|
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.68

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|-----------------|-----------------|-----------------|
| 70 Ldn ----- | 65 Ldn ----- | 60 Ldn ----- | 55 Ldn ----- |
| 0.0 | 72.2 | 155.2 | 334.1 |

TABLE Cumulative without Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022
ROADWAY SEGMENT: Lone Tree Way - east of Brentwood Boulevard
NOTES: Hanson Lane Residential Project - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1400 SPEED (MPH): 30 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 0.0 |

TABLE Cumulative without Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Hanson Lane - east of Brentwood Boulevard

NOTES: Hanson Lane Residential Project - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1300 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | NIGHT ----- |
|----------|------------|----------------|
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.30

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|-----------------|-----------------|-----------------|
| 70 Ldn ----- | 65 Ldn ----- | 60 Ldn ----- | 55 Ldn ----- |
| 0.0 | 0.0 | 0.0 | 0.0 |

TABLE Cumulative without Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Delta Road to Lone Tree Way

NOTES: Hanson Lane Residential Project - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | NIGHT ----- |
|----------|------------|----------------|
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.83

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|-----------------|-----------------|-----------------|
| 70 Ldn ----- | 65 Ldn ----- | 60 Ldn ----- | 55 Ldn ----- |
| 0.0 | 86.1 | 185.1 | 398.5 |

TABLE Cumulative without Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Lone Tree Way to Hanson Lane

NOTES: Hanson Lane Residential Project - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 21100 SPEED (MPH): 40 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.82

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 94.5 | 202.2 | 434.9 |

TABLE Cumulative without Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Hanson Lane to Sunset Road

NOTES: Hanson Lane Residential Project - Cumulative without Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 20700 SPEED (MPH): 40 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.31

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 92.8 | 199.5 | 429.5 |

TABLE Cumulative plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Lone Tree Way - east of Brentwood Boulevard

NOTES: Hanson Lane Residential Project - Cumulative plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2000 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY | NIGHT |
|----------|-------|-------|
| | --- | ----- |
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 55.17

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 0.0 | 0.0 | 57.4 |

TABLE Cumulative plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Hanson Lane - east of Brentwood Boulevard

NOTES: Hanson Lane Residential Project - Cumulative plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1400 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | NIGHT ----- |
|----------|------------|----------------|
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.62

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|-----------------|-----------------|-----------------|
| 70 Ldn ----- | 65 Ldn ----- | 60 Ldn ----- | 55 Ldn ----- |
| 0.0 | 0.0 | 0.0 | 0.0 |

TABLE Cumulative plus Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Delta Road to Lone Tree Way

NOTES: Hanson Lane Residential Project - Cumulative plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18700 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY --- | NIGHT ----- |
|----------|------------|----------------|
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.87

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|-----------------|-----------------|-----------------|
| 70 Ldn ----- | 65 Ldn ----- | 60 Ldn ----- | 55 Ldn ----- |
| 0.0 | 86.7 | 186.4 | 401.4 |

TABLE Cumulative plus Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Lone Tree Way to Hanson Lane

NOTES: Hanson Lane Residential Project - Cumulative plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 21100 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

| | DAY | NIGHT |
|----------|-------|-------|
| | --- | ----- |
| AUTOS | 88.08 | 9.34 |
| M-TRUCKS | 1.65 | 0.19 |
| H-TRUCKS | 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.82

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 94.5 | 202.2 | 434.9 |

TABLE Cumulative plus Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/22/2022

ROADWAY SEGMENT: Brentwood Boulevard - Hanson Lane to Sunset Road

NOTES: Hanson Lane Residential Project - Cumulative plus Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 20800 SPEED (MPH): 40 GRADE: .5

| TRAFFIC DISTRIBUTION PERCENTAGES | |
|----------------------------------|-------|
| DAY | NIGHT |
| --- | ----- |
| AUTOS | |
| 88.08 | 9.34 |
| M-TRUCKS | |
| 1.65 | 0.19 |
| H-TRUCKS | |
| 0.66 | 0.08 |

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.33

| DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn | | | |
|--|--------|--------|--------|
| 70 Ldn | 65 Ldn | 60 Ldn | 55 Ldn |
| ----- | ----- | ----- | ----- |
| 0.0 | 93.1 | 200.1 | 430.9 |

APPENDIX F

TRAFFIC IMPACT ANALYSIS REPORT

Draft Traffic Impact Analysis Report

Hanson Lane Residential Development

City of Brentwood, California

February 4, 2022



Contents

| | |
|---|-----------|
| Executive Summary | 1 |
| 1.0 Introduction | 4 |
| 1.1 Study Purpose | 4 |
| 1.2 Study Intersections..... | 4 |
| 1.3 Study Scenarios..... | 4 |
| 2.0 Study Methodology | 8 |
| 2.1 Vehicle Miles Traveled | 8 |
| 2.2 Level of Service Analysis Methodology..... | 9 |
| 2.3 Level of Service Standards..... | 11 |
| 3.0 Existing Conditions | 12 |
| 3.1 Existing Setting and Roadway System..... | 12 |
| 3.2 Existing Pedestrian Facilities | 13 |
| 3.3 Existing Bicycle Facilities..... | 15 |
| 3.4 Existing Transit Facilities..... | 17 |
| 3.5 Existing Traffic Conditions..... | 19 |
| 3.6 Intersection Level of Service Analysis – Existing Conditions..... | 22 |
| 4.0 Existing plus Project Conditions | 23 |
| 4.1 Vehicle Miles Traveled | 23 |
| 4.2 Project Trip Generation..... | 24 |
| 4.3 Project Trip Distribution and Assignment..... | 24 |
| 4.4 Intersection Level of Service Analysis – Existing plus Project Conditions..... | 27 |
| 4.5 Intersection Queuing Analysis | 27 |
| 5.0 Cumulative No-Project Conditions (2040) | 30 |
| 5.1 Intersections Level of Service Analysis – Cumulative No-Project Conditions..... | 30 |
| 6.0 Cumulative plus Project Conditions | 32 |
| 6.1 Intersection Level of Service Analysis – Cumulative plus Project Conditions | 32 |
| 7.0 Additional Analysis | 34 |
| 7.1 Site Access, Circulation, and Multimodal Impacts | 34 |
| 7.2 Parking..... | 35 |

7.3 Recommendations..... 35

Tables

Table 1: Signalized Intersection Delay and LOS Definitions..... 10
Table 2: Unsignalized Intersection Delay and LOS Definitions..... 10
Table 3: Existing Bus Services 17
Table 4: Intersection Level of Service Analysis – Existing Conditions 22
Table 5: Year 2020 VMT Generation 23
Table 6: Project Trip Generation 24
Table 7: Intersection Level of Service Analysis – Existing plus Project Conditions 27
Table 8. 95th Percentile Queue Lengths– Existing and Existing plus Project Conditions 28
Table 9: Intersection Level of Service Analysis – Cumulative Conditions..... 30
Table 10: Intersection Level of Service Analysis – Cumulative plus Project Conditions 32

Figures

Figure 1: Vicinity Map 6
Figure 2: Site Plan 7
Figure 3: Existing Pedestrian Facilities..... 14
Figure 4: Existing Bicycle Facilities 16
Figure 5: Existing Transit Facilities 18
Figure 6: Existing Lane Geometry and Traffic Controls 20
Figure 7: Existing Conditions Peak Hour Traffic Volumes 21
Figure 8: Project Trip Distribution and Assignment..... 26
Figure 9: Existing plus Project Conditions Peak Hour Traffic Volumes 29
Figure 10: Cumulative No-Project Conditions Peak Hour Traffic Volumes..... 31
Figure 11: Cumulative plus Project Conditions Peak Hour Traffic Volumes 33

Appendices

Appendix A – Existing and Historical Turning Movement Counts
Appendix B - CCTA Travel Demand Model Transportation Analysis Zones
Appendix C – Existing Conditions Intersections Level of Service Worksheets

Appendix D – Existing plus Project Conditions Intersections Level of Service Worksheets

Appendix E – Cumulative Conditions Intersections Level of Service Worksheets

Appendix F – Cumulative plus Project Conditions Intersections Level of Service Worksheets

EXECUTIVE SUMMARY

This report summarizes the results of the Traffic Impact Study (TIS) conducted for the proposed residential development located at 251 Hanson Lane in the City of Brentwood. . The proposed project would construct 89 single family homes on a site that is currently vacant. Access to the project site would be provided by connections to Hanson Lane and Lone Tree Way.

The purpose of this report is to provide summaries of changes in vehicle miles traveled (VMT) and traffic impacts on the surrounding transportation system with the proposed project. The VMT analysis is based on the methodology adopted by the Contra Costa Transportation Authority (CCTA). To evaluate the effects on the transportation infrastructure due to the addition of traffic from the proposed project, an LOS analysis was conducted to determine consistency with City of Brentwood and CCTA plans and standards.

Vehicle Miles Traveled

The proposed project is expected to generate the same daily home-based VMT per capita as similar existing single family homes nearby, based on the 2020 CCTA travel demand model. The project would generate 21.26 VMT per capita, less than the applicable significance threshold of 25.16 within the City of Brentwood. The project is expected to cause a **less-than-significant impact** under CEQA.

Project Trip Generation

TJKM developed estimated project trip generation for the proposed project based on published trip generation rates from the ITE publication *Trip Generation (11th Edition)*. TJKM used published trip rates for the ITE land use Single Family Detached Housing (ITE Code 210) for this project and evaluated a project size of 90 homes. The proposed project is expected to generate 839 total daily trips, including 62 a.m. peak hour trips (19 in, 46 out) and 84 p.m. peak hour trips (53 in, 31 out).

Existing Conditions

Under this scenario, both of the study intersections operate within applicable jurisdictional standards during both peak hours. Although the controlled westbound movement at Brentwood Boulevard & Hanson Lane operates at LOS E, the total intersection operates at the equivalent of LOS A, and a traffic signal is not warranted

Existing plus Project Conditions

Under this scenario, both of the study intersections would continue to operate within applicable jurisdictional standards during both peak hours. Although the controlled westbound movement at Brentwood Boulevard & Hanson Lane would operate at LOS E, the total intersection would continue to operate at the equivalent of LOS A, and a traffic signal is not warranted. The project **would be consistent** with level of service standards set forth under the City of Brentwood General Plan and CCTA Congestion Management Program.

Cumulative Conditions

The Cumulative No-Project Conditions analysis forecasts how the study area's transportation system would operate with the growth and changes of the surrounding community by the year 2040. Projected 2040 traffic volumes are derived from the CCTA travel demand model.

Under this scenario, the unsignalized intersection of Brentwood Boulevard & Hanson Lane would operate at LOS F on the controlled westbound approach, but the total intersection would operate at the equivalent of acceptable LOS A or B, and a traffic signal is not warranted. The signalized intersection of Brentwood Boulevard would degrade to unacceptable LOS E.

Cumulative plus Project Conditions

Under this scenario, the unsignalized intersection of Brentwood Boulevard & Hanson Lane would continue to operate at LOS F on the controlled westbound approach, but the total intersection would operate at the equivalent of acceptable LOS C, and a traffic signal is not warranted. The signalized intersection of Brentwood Boulevard would continue to operate at unacceptable LOS E, with an increase in average delay of 9.3 seconds in the a.m. peak hour and 6.0 seconds in the p.m. peak hour.

Based on the significance threshold applied for this analysis, this is a potential significant inconsistency. However, the increase in delay can be eliminated by optimizing the signal timing at this intersection, with no changes to lane geometry or traffic control. The project **would be consistent** with level of service standards set forth under the City of Brentwood General Plan and CCTA Congestion Management Program.

Site Access and On-Site Circulation

TJKM concluded that the site plan will operate acceptably and provide adequate connection to existing streets and circulation within the site. The proposed project does not conflict with existing and planned pedestrian or bicycle facilities and will add trips to existing transit facilities, which can be accommodated by the existing transit capacity. Site access and circulation for vehicles, pedestrians, and bicycles are considered **adequate**.

Parking

The proposed project would construct two-car garages with driveway aprons for each dwelling unit, satisfying City requirements. The new internal roadways would also provide on-street parking spaces. The proposed parking supply would therefore be more than **adequate** under City of Brentwood requirements and would not produce any parking impacts on surrounding parcels or roadways.

Queuing Analysis

Queuing operations calculated at the signalized study intersection of Brentwood Boulevard & Lone Tree Way under Existing and Existing plus Project Conditions. The project would add trips to dedicated left- and right-turn lanes at this intersection. Under Existing Conditions, all 95th percentile queue lengths can be fully accommodated in the available storage length. The addition of project trips would not cause any new queue overflows.

Recommendations

TJKM recommends the following:

- Consider the addition of a pedestrian connection between the proposed park and Beverly Lane.
- On signing and striping plan, include marked crosswalks at internal intersections with curb ramps.

1.0 INTRODUCTION

This report summarizes the results of the Traffic Impact Study (TIS) conducted for the proposed residential development located at 251 Hanson Lane in the City of Brentwood. The proposed project would construct 89 single family homes on a site that is currently vacant. Access to the project site would be provided by connections to Hanson Lane and Lone Tree Way.

This chapter discusses the TIS purpose, project study area, and analysis scenarios. **Figure 1** shows the study area and project site location. **Figure 2** shows the project site plan, dated October, 2021.

1.1 STUDY PURPOSE

The purpose of this report is to provide summaries of changes in vehicle miles traveled (VMT) and traffic impacts on the surrounding transportation system with the proposed project. The VMT analysis is based on the methodology adopted by the Contra Costa Transportation Authority (CCTA). To evaluate the effects on the transportation infrastructure due to the addition of traffic from the proposed project, an LOS analysis was conducted to determine consistency with City of Brentwood and CCTA plans and standards.

1.2 STUDY INTERSECTIONS

TJKM evaluated traffic conditions at two study intersections during the a.m. and p.m. peak hours for a typical weekday. The study intersections were selected based on TJKM's working knowledge of the area with input and approval from the City of Brentwood. Both Lone Tree Way and Brentwood Boulevard are identified as suburban Routes of Regional Significance within the Contra Costa Transportation Authority (CCTA) East County Action Plan. Due to ongoing traffic irregularities associated with the COVID-19 pandemic, observed traffic volumes were increased by an adjustment factor to estimate typical traffic volumes. This is discussed further in section 3.5.

The peak periods observed were between 7:00-9:00 a.m. and 4:00-6:00 p.m. The study intersections and associated traffic controls are as follows:

1. Brentwood Boulevard & Hanson Lane (Two-Way Stop)
2. Brentwood Boulevard & Lone Tree Way (Signal)

1.3 STUDY SCENARIOS

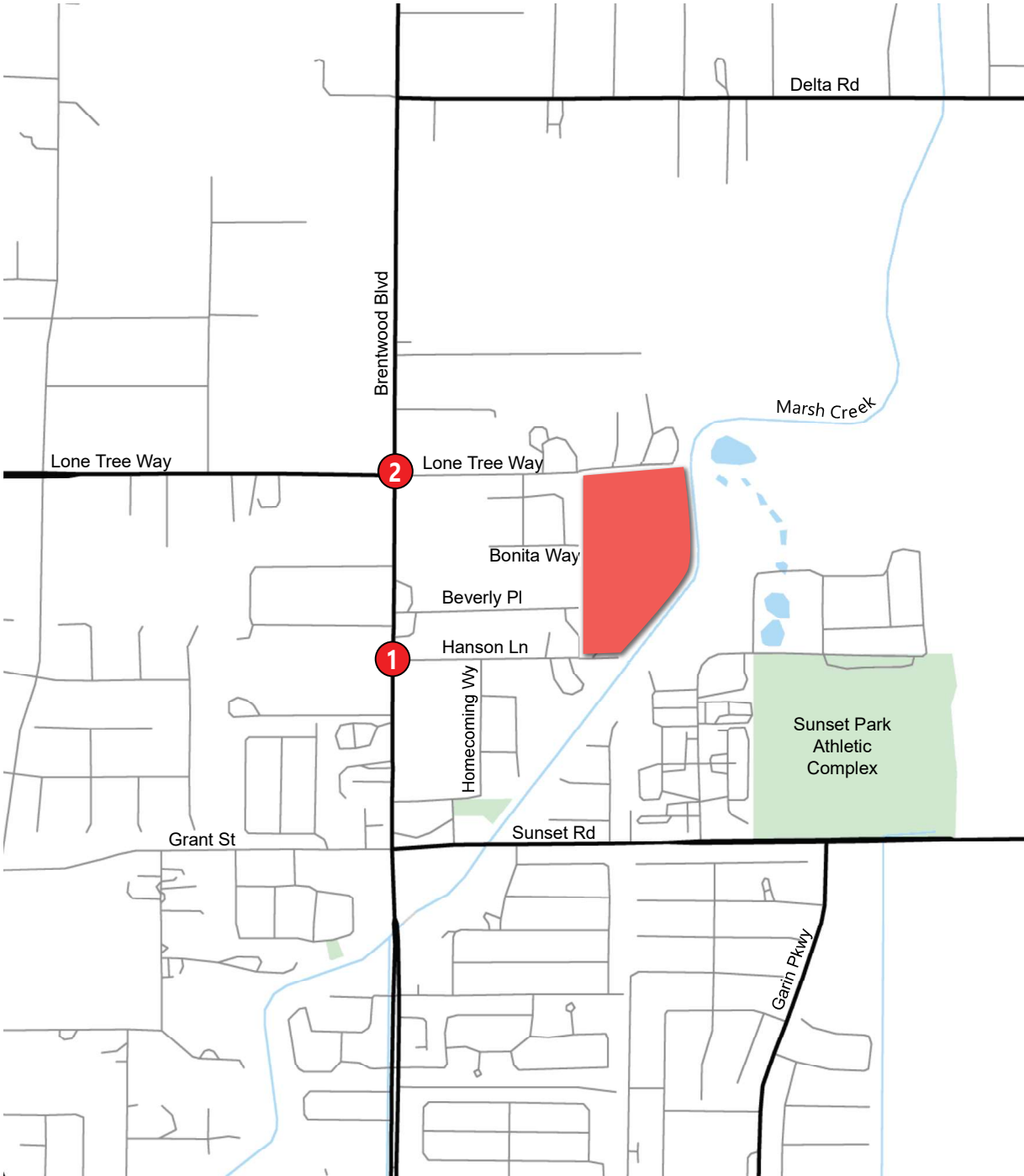
The roadway operations analysis addresses the following six traffic scenarios:

- **Existing Conditions** – This scenario evaluates the study intersections based on adjusted existing traffic volumes, lane geometry and traffic controls.
- **Existing plus Project Conditions** – This scenario is identical to Existing Conditions, but with the addition of traffic from the proposed project.
- **Cumulative Conditions (2040)** – This scenario considers the development of the city and surrounding communities to the year 2040, projecting existing traffic volumes to the year 2040 using a compounding annual growth factor of 2.183 percent per year. This growth factor was derived from

corridor volumes on Lone Tree Way and Brentwood Avenue in the immediate study area, using the current CCTA travel demand model for baseline year 2018 and horizon year 2040.

- **Cumulative plus Project Conditions** – This scenario is identical to Cumulative Conditions, but with the addition of traffic from the proposed project.

Figure 1: Vicinity Map

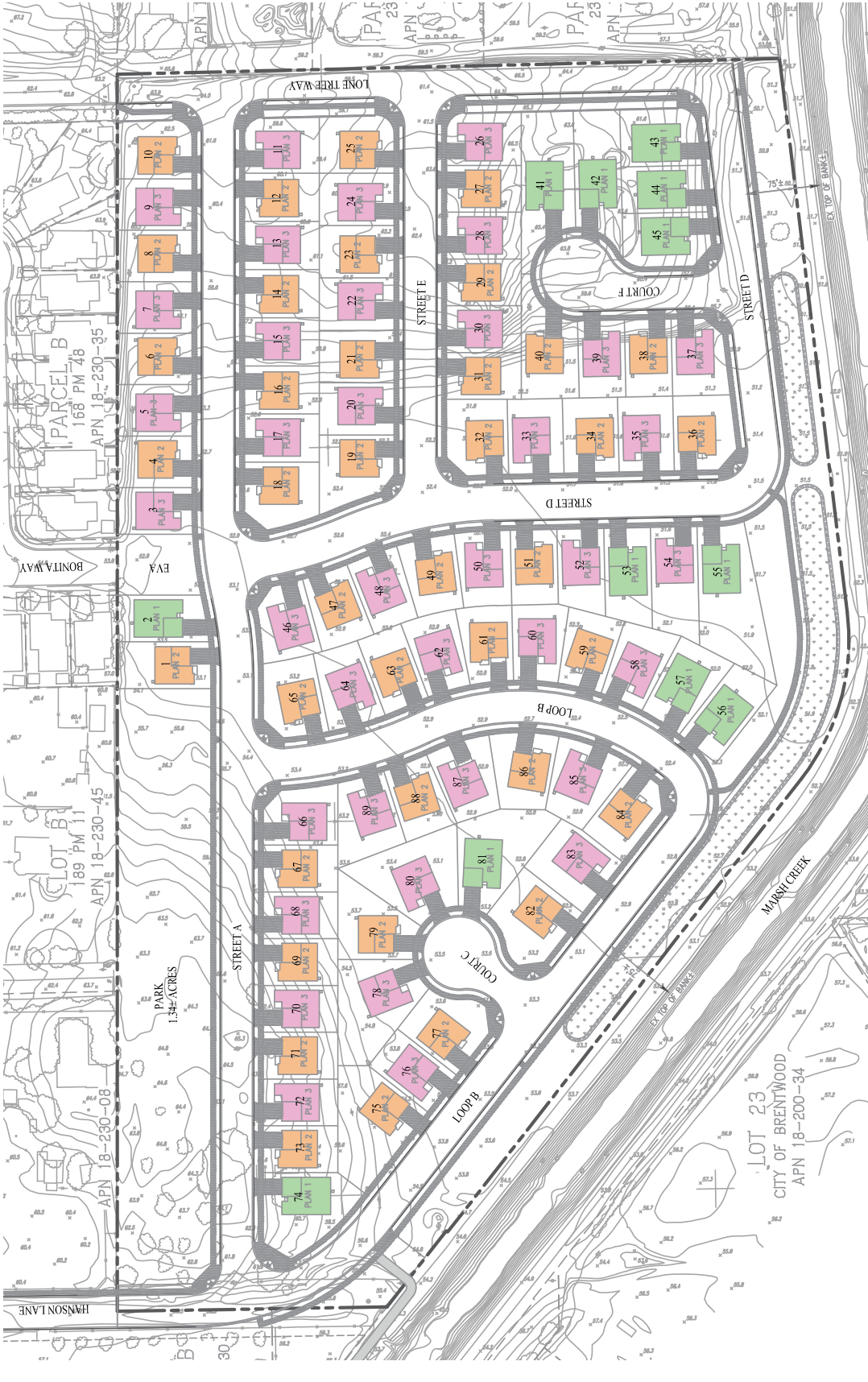


LEGEND

- Project Site
- ⊗ Study Intersection



Figure 2: Site Plan



2.0 STUDY METHODOLOGY

Traffic impacts related to the proposed project were evaluated for both compliance with applicable regulatory documents and environmental significance as defined in the California Environmental Quality Act (CEQA). The CEQA analysis was conducted in accordance with the *Technical Advisory On Evaluating Transportation Impacts In CEQA* published by the Governor's Office of Planning and Research (OPR) and the July 1, 2020, Technical Memorandum prepared by Fehr & Peers describing the VMT methodology adopted by the Contra Costa Transportation Authority (CCTA). As of July 1, 2020, intersection level of service (LOS) can no longer be used to determine significant CEQA impacts. However, an LOS analysis was conducted to determine consistency with City of Brentwood and CCTA plans and standards.

2.1 VEHICLE MILES TRAVELED

This study evaluates project-related VMT as outlined in the adopted CCTA VMT methodology. The methodology and implementation guidelines were adopted by CCTA in July 2020. As the City of Brentwood has not adopted VMT procedures or standards, CCTA standards were used.

The Governor's Office of Planning and Research (OPR) *Technical Advisory* (December 2018) provides guidance to analysts and local jurisdictions for implementing VMT as a metric for determining the transportation impact for land use projects. The OPR guidelines state that for analysis purposes, "VMT" refers to automobile VMT, specifically passenger vehicles and light trucks. Heavy truck traffic is typically excluded.

The CCTA guidelines include a screening process that describes five scenarios in which a project would be exempted from a VMT analysis requirement: 1) projects exempt from CEQA analysis, 2) small projects, 3) local serving projects, 4) projects in transit priority areas, and 5) projects in low VMT areas. It should be noted that even if a project satisfies one or more of the screening criteria, lead agencies may still require a VMT analysis if there is evidence that the project has characteristics that might lead to a significant amount of VMT. The project does not satisfy the requirements for screening criteria 1-4.

Under the CCTA VMT methodology, a low VMT area is defined as a city or unincorporated portion within one of the CCTA subregions where home-based VMT per resident is at least 15 percent below the countywide or where the commute VMT per employee is at least 15 percent below the regional average. A conservative reading of the methodology would indicate that when the citywide average VMT per resident is above the countywide average, projects cannot be screened out based on location, and a VMT analysis must be completed. In such cases, the appropriate significance thresholds based on countywide or regional average would be applied. The methodology also permits the applicable average VMT for the subject municipality or unincorporated CCTA subregion to be utilized instead of the countywide or regional average, if it is less stringent. As the existing residential VMT per capita in the City of Brentwood is higher than the Contra Costa countywide average, a VMT analysis is required for this project.

Under CCTA guidelines, a residential project would have a significant impact on VMT if it would generate residential VMT per capita higher than 85 percent of the City of Brentwood average.

2.2 LEVEL OF SERVICE ANALYSIS METHODOLOGY

Although Level of Service (LOS) is no longer relevant to CEQA, LOS can be used to determine conformity with an adopted general plan or congestion management program. LOS is a qualitative measure that describes operational conditions as they relate to the traffic stream and perceptions by motorists and passengers. The LOS generally describes these conditions in terms of such factors as speed and travel time, delays, freedom to maneuver, traffic interruptions, comfort, convenience, and safety. The operational LOS are given letter designations from A to F, with A representing the best operating conditions (free-flow) and F the worst (severely congested flow with high delays). Intersections generally are the capacity-controlling locations with respect to traffic operations on arterial and collector streets in urban areas.

Signalized Intersections

The study intersections under traffic signal control were analyzed using the 6th Edition Highway Capacity Manual (HCM) Operations Methodology for signalized intersections described in Chapter 18 (HCM 6th Ed.). This methodology determines LOS based on average control delay per vehicle for the overall intersection during peak hour intersection operating conditions. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. The average control delay for signalized intersections was calculated using Synchro 10 analysis software and was correlated to a LOS designation as shown in **Table 1**.

Unsignalized Intersections

The study intersections under stop control (unsignalized) were analyzed using the 6th Edition HCM Operations Methodology for unsignalized intersections described in Chapter 20 (HCM 6th Ed.). LOS ratings for stop-sign controlled intersections are based on the average control delay expressed in seconds per vehicle. At the side street, one-way or two-way stop controlled intersections, the control delay is calculated for each movement, not for the intersection as a whole. For approaches composed of a single lane, the control delay is computed as the average of all movements in that lane. The weighted average delay for the entire intersections is presented for all-way stop controlled intersections. The average control delay for unsignalized intersections was calculated using Synchro 10 analysis software and was correlated to a LOS designation as shown in **Table 2**.

Table 1: Signalized Intersection Delay and LOS Definitions

| Level of Service | Description | Average Control Delay |
|------------------|--|-----------------------|
| A | Signal progression is extremely favorable. Most vehicles arrive during the green phase and do not stop at all. Short cycle lengths may also contribute to the very low vehicle delay. | 10.0 or less |
| B | Operations characterized by good signal progression and/or short cycle lengths. More vehicles stop than with LOS A, causing higher levels of average vehicle delay. | 10.1 to 20.0 |
| C | Higher delays may result from fair signal progression and/or longer cycle lengths. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant, though may still pass through the intersection without stopping. | 20.1 to 35.0 |
| D | The influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable signal progression, long cycle lengths, or high volume-to-capacity (V/C) ratios. Many vehicles stop and individual cycle failures are noticeable. | 35.1 to 55.0 |
| E | This is considered to be the limit of acceptable delay. These high delay values generally indicate poor signal progression, long cycle lengths, and high volume-to-capacity (V/C) ratios. Individual cycle failures occur frequently. | 55.1 to 80.0 |
| F | This level of delay is considered unacceptable by most drivers. This condition often occurs with oversaturation, that is, when arrival flow rates exceed the capacity of the intersection. Poor progression and long cycle lengths may also be major-contributing causes of such delay levels. | greater than 80.0 |

Source: Highway Capacity Manual 6th Ed., Chapter 18 (Transportation Research Board, 2010)
Average Control Delay per Vehicle in seconds

Table 2: Unsignalized Intersection Delay and LOS Definitions

| Level of Service | Description | Average Control Delay |
|------------------|----------------------------|-----------------------|
| A | Little or no traffic delay | ≤10 |
| B | Short Traffic delays | >10 – 15 |
| C | Average traffic delays | >15 – 25 |
| D | Long traffic delays | >25 – 35 |
| E | Very long traffic delays | >35 – 50 |
| F | Extreme traffic delays | >50 |

Source: Highway Capacity Manual 6th Ed., Chapter 20 (Transportation Research Board, 2010)
Average Control Delay per Vehicle in seconds

2.3 LEVEL OF SERVICE STANDARDS

Although level of service is no longer used for identifying impacts under CEQA, level of service analysis is still used for determining consistency with adopted agency plans and standards. Where standards refer to significant environmental impacts, this analysis instead identifies these as significant inconsistencies with adopted plans.

City of Brentwood

For intersections on Routes of Regional Significance, the City of Brentwood General Plan has adopted the Multimodal Transportation Service Objectives (MTSOs) established in the East County Action Plan. For signalized suburban routes of regional significance, the LOS standard is LOS D. The City does not specify a significance threshold for intersections that operate at unacceptable level of service without the addition of project traffic. For the purpose of this analysis, a significant inconsistency would occur if the average delay at a signalized intersection operating at unacceptable LOS E or F increases by 5.0 seconds or more.

Although standards for unsignalized intersections on Routes of Regional Significance are undefined, the City has established LOS D as the standard for both signalized and unsignalized intersections that are not on designated Routes of Regional Significance or within the Downtown Specific Plan area. Per General Plan policy CIR 1-5, "At unsignalized intersections, levels of service shall be determined for both controlled movements and for the overall intersection. Controlled movements operating at LOS E or LOS F are allowable if the intersection is projected to operate at LOS C or better overall, and/or if the 'Peak Hour' signal warrant outlined in the California Manual on Uniform Traffic Control Devices remains unmet." For the purposes of this analysis, this standard has been applied to the unsignalized study intersection of Brentwood Boulevard & Hanson Lane.

Contra Costa Transportation Authority CMP Intersections

In the project vicinity, Brentwood Boulevard and Lone Tree Way are designated as Routes of Regional Significance (RORS). The Congestion Management Program specifies level of service standards for intersections and RORS, but it does not provide specific thresholds of significance. As noted above, the standard for signalized intersections on Routes of Regional Significance is LOS D.

3.0 EXISTING CONDITIONS

This section describes existing conditions in the immediate project site vicinity, including roadway facilities, bicycle and pedestrian facilities, and available transit service. In addition, existing traffic volumes and operations are presented for the study intersections, including the results of LOS calculations.

3.1 EXISTING SETTING AND ROADWAY SYSTEM

Relevant roadways in the project vicinity are discussed below and shown in **Figure 1**:

Brentwood Boulevard is a two- to four-lane, arterial street that acts as a key north-south connection in the City of Brentwood and to the City of Oakley to the north. It is designated as a Route of Regional Significance by CCTA and a major arterial in the Brentwood General Plan. Within the study area, Brentwood Boulevard is generally divided with a raised median and features left turn pockets at side streets. The posted speed limit is 40 miles per hour (mph), and parking is prohibited.

Lone Tree Way is a two- to four-lane, east-west arterial street that provides the primary route between the project site and SR-4. It is designated as a Route of Regional Significance by CCTA and a major arterial in the Brentwood General Plan. Within the study area, Lone Tree Way is undivided, and the roadway currently ends at the northwest corner of the project site. The posted speed limit is 35 mph, and parking is permitted on some portions.

Grant Street/Sunset Road is a generally two-lane, east-west collector street. The roadway changes name at Brentwood Boulevard, with Grant Street extending to the west and Sunset Road to the east. Within the study area, Grant Street/Sunset Road is undivided west of Marsh Creek and features painted medians and turn pockets east of Marsh Creek. The posted speed limit is 30 mph, and parking is generally prohibited.

Delta Road is a two-lane minor arterial street that extends east from Brentwood Boulevard, into the City of Oakley. In the Brentwood General Plan, it is designated as a minor arterial near Brentwood Boulevard a rural byway further east. The posted speed limit on Delta Road is 40 mph, and parking is generally permitted on the unpaved shoulders.

Hanson Lane is a short two-lane, east-west local street that connects the project site to Brentwood Boulevard. The posted speed limit is 25 mph, and parking is permitted along most of its length.

Beverly Place is a short two-lane, east-west local street located immediately west of the project site. The posted speed limit is 25 mph, and parking is permitted along most of its length. It should be noted that no pedestrian or vehicle connections are proposed on Beverly Place.

3.2 EXISTING PEDESTRIAN FACILITIES

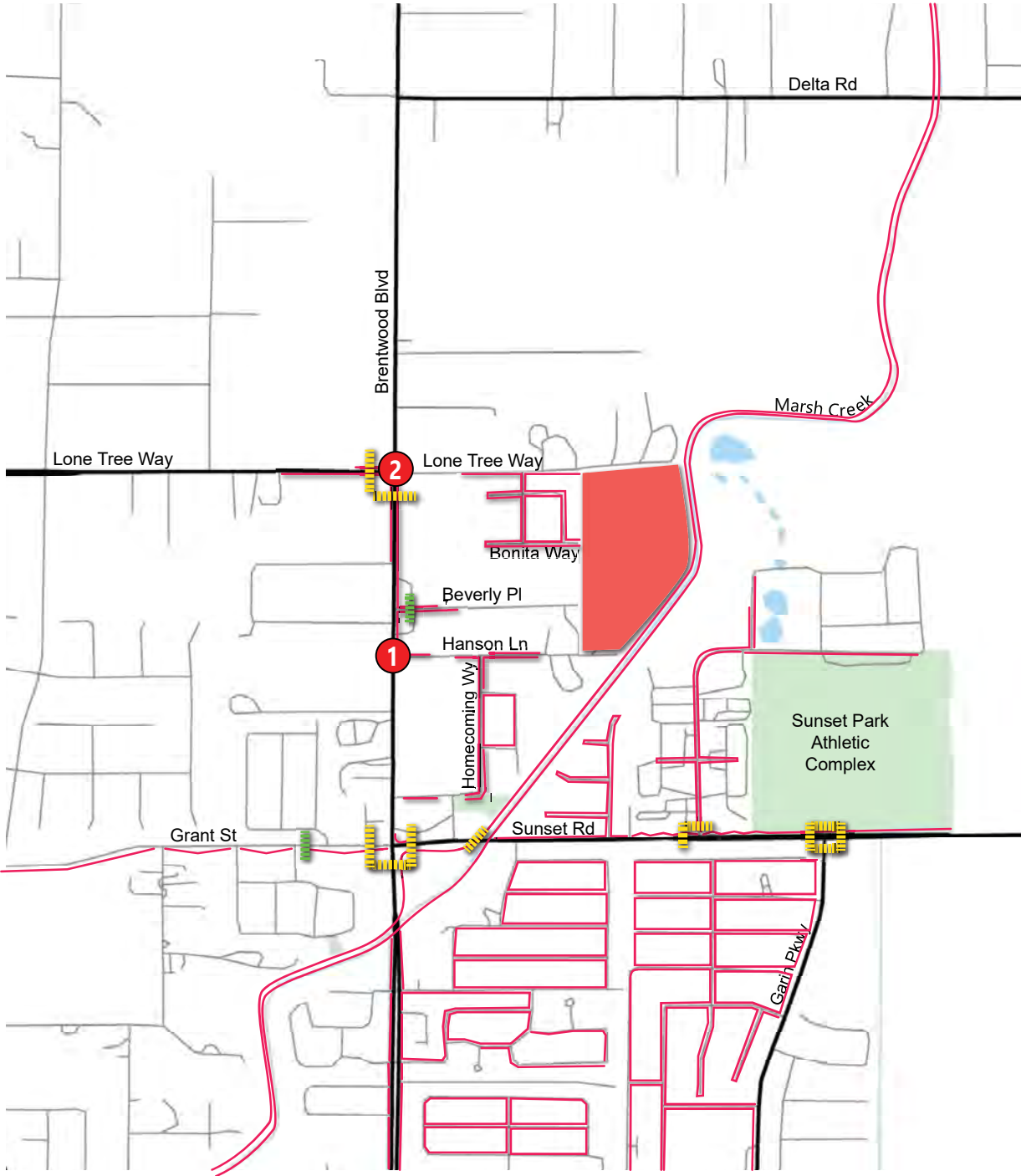
Walkability is defined as the ability to travel easily and safely between various origins and destinations without having to rely on automobiles or other motorized travel. The ideal “walkable” community includes wide sidewalks, a mix of land uses such as residential, employment, and shopping opportunities, a limited number of conflict points with vehicle traffic, and easy access to transit facilities and services.

Pedestrian facilities consist of crosswalks, sidewalks, pedestrian signals, and off-street paths, which provide safe and convenient routes for pedestrians to access the destinations such as institutions, businesses, public transportation, and recreation facilities.

In the project vicinity, four signalized intersections are equipped with countdown pedestrian signal heads and cross walks. Pedestrian signals are present at the intersection of Brentwood Blvd and Lone Tree Way in two directions, at the intersection of Brentwood Boulevard and Grant Street/Sunset Road in three directions, at the intersection of Sunset Road and Elkins Way in two directions, and at the intersection of Garin Parkway and Sunset Road in four directions (at the parking entrance to the Sunset Park Athletic Complex). A crosswalk with flashing beacon is present at the unsignalized crossing of Sunset Road connecting the NE/SW-running Marsh Creek Regional Trail, which runs along the eastern edge of the project site. A North/South crosswalk is present at the unsignalized intersection of Beverly Pl and Brentwood Blvd to the west of the project site, as well as the unsignalized crossing of Grant St and Bosk Avenue to the southwest.

There are intermittent sidewalks present on Lone Tree Way, Beverly Place, Hanson Lane, Beverly Place, and Brentwood Boulevard. A continuous sidewalk is present on the north side of Sunset Road, and on the south side of Grant Street. Continuous sidewalks are present on both sides of the street throughout the majority of the residential area to the south of the project site, south of Sunset Road and between Garin Parkway and Brentwood Boulevard. By contrast, the residential area to the north of the project site has little to no sidewalks - only roadway shoulder areas. The residential development immediately to the west of the project site, south of Lone Tree Way, has near-complete sidewalks within the block interior. There is a notable gap in sidewalk facilities on both sides of Brentwood Boulevard from Hanson Lane to Grant Street/Sunset Road. Most nearby bus stops are partially accessible from the project site via roadways with only intermittent sidewalk coverage, the closest being located near the crossing of Lone Tree Way on Brentwood Boulevard. Expansion of sidewalks and crosswalks within the vicinity of the project site on Lone Tree Way, Beverly Place, Hanson Lane, and Brentwood Boulevard would increase accessibility. The existing pedestrian facilities in the study area are shown in **Figure 3**.

Figure 3: Existing Pedestrian Facilities



LEGEND

- Project Site
- Study Intersection
- Marked Crosswalk, signalized
- Marked Crosswalk, unsignalized
- Sidewalk



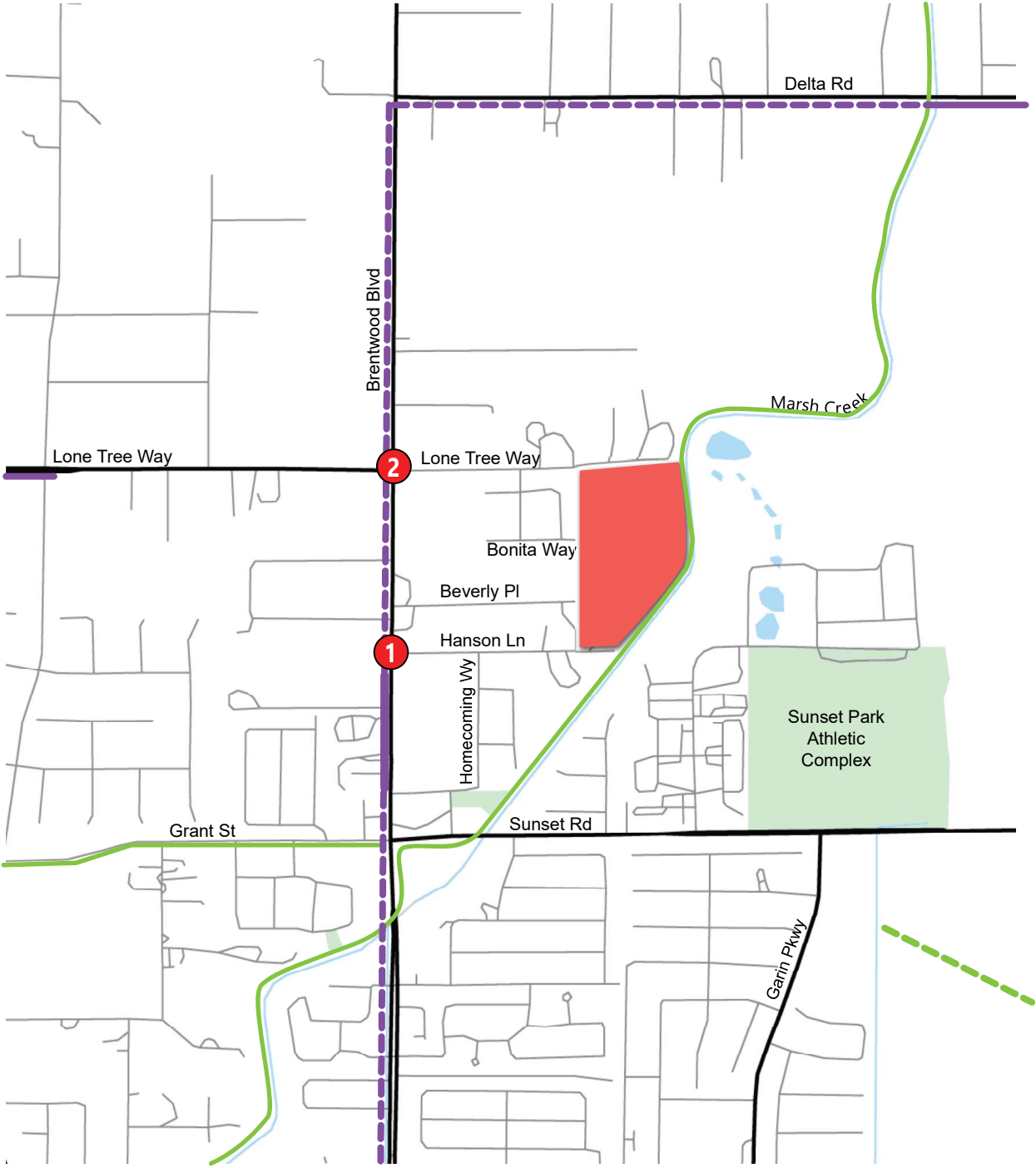
3.3 EXISTING BICYCLE FACILITIES

Bicycle paths, lanes and routes are typical examples of bicycle transportation facilities, which are defined by Caltrans as being in one of the following three classes:

1. Class I Multiuse Trail – a completely separated facility designed for the exclusive use of bicyclists and pedestrians with crossing points minimized.
2. Class II Bike Lane – a designated lane for the exclusive or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and cross-flows by pedestrians and motorists permitted.
3. Class III Bike Route – a route designated by signs or pavement markings and shared with pedestrians and motorists.
4. Class IV Separated Bikeway – an on-street facility reserved for use by bicyclists, with physical separation between the bikeway and travel lanes. Physical separation consists of vertical elements that may include curbs, landscaping, bollards, or parking lanes.

The Marsh Creek Regional Trail is a Class I multiuse trail that passes close to the project site, running along its eastern edge in a northeast/southwesterly direction. Another Class I bike lane runs along Grant Street west of Brentwood Boulevard, in connection with the Marsh Creek bike facility. Class II bike lanes have been proposed along Brentwood Boulevard running north to Delta Road, then turning east along Delta Road; as of 2022, portions of this Class II facility have been constructed along Brentwood Boulevard between Homecoming Way and Hanson Lane, and along Delta Road east of Marsh Creek. A portion of Class II bike lane exists along Lone Tree Way to the west of the project site, beginning roughly 0.47 miles west of Brentwood Boulevard. Class II and Class III bike facilities are proposed on multiple other roadways in the expanded project vicinity, as described in the 2009 *Contra Costa County Bicycle and Pedestrian Plan*. Overall, existing bicycle facilities provide intermittent connectivity between the proposed project site and nearby destinations. A higher level of connectivity will be achieved once the proposed Class II bike lane along Brentwood Boulevard has been fully constructed. The existing and proposed bicycle facilities in the study area are shown in **Figure 4**.

Figure 4: Existing Bicycle Facilities



LEGEND

- Project Site
- Existing Class I Bike Lane
- - - Existing Class II Bike Lane
- X Study Intersection
- - - Proposed Class I Bike Lane
- - - Proposed Class II Bike Lane



3.4 EXISTING TRANSIT FACILITIES

The Bay Area Rapid Transit (BART) Antioch-SFO + Millbrae Line terminates at Antioch roughly 6 miles from the project site. Existing transit service to the project is provided primarily by Tri Delta Transit. Tri Delta Transit lines servicing the project area are described below. It should be noted that the COVID-19 pandemic has resulted in substantially decreased transit demand throughout the region, leading to reduced service hours and frequency across multiple transit agencies. It is expected that service hours and frequency will be expanded when transit demand returns to more typical levels.

BART - BART provides passenger service within the metropolitan Bay Area. BART currently has five main operating lines: Antioch-SFO/Millbrae, Dublin/Pleasanton-Daly City, Berryessa/North San Jose-Richmond, Berryessa/North San Jose-Daly City, and Richmond-Millbrae. There are also connectors to Oakland International Airport (OAK) and San Francisco International Airport (SFO). BART operates between 5:00 a.m. and 9:00 on weekdays and between 8:00 a.m. and 9:00 p.m. on weekends. During the a.m. and p.m. peak commute periods, train service runs at 15-minute intervals to each destination. The closest BART station is located in Antioch, roughly six miles from the project site. The Antioch BART terminus station can be accessed from the project site through Tri Delta Transit (TDT) bus routes 384, 300, and 391 on weekdays, and on weekends via TDT route 393.

Tri Delta Transit – Tri Delta Transit (TDT) provides bus service to northeastern Contra Costa County, including Antioch, Pittsburg, Brentwood, Oakley and Bay Point, with limited service in Concord and Martinez. It operates local bus routes on weekdays, with reduced service on weekends and holidays. In the immediate vicinity of the proposed project, Bus Routes #384, #300, #391, and #393 provide service to the project site and vicinity. **Table 3** summarizes existing bus service in the project vicinity.

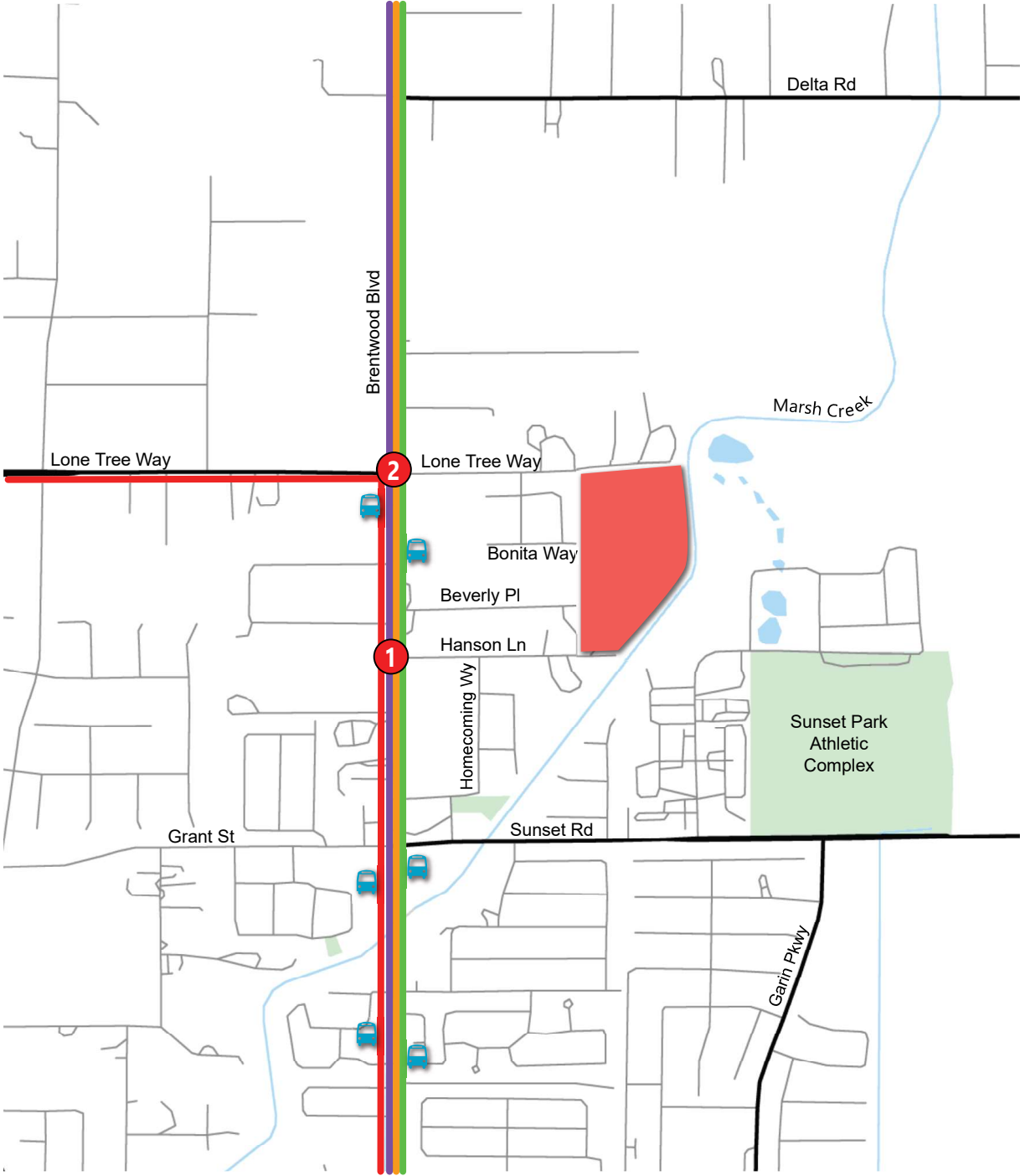
The existing transit facilities in the study area are shown in **Figure 5**.

Table 3: Existing Bus Services

| Route # | From | To | Weekdays | | Weekend | |
|---------|-----------------------|-----------------------|------------------------|-------------------|------------------------|-------------------|
| | | | Operating Hours | Headway (minutes) | Operating Hours | Headway (minutes) |
| 384 | Antioch BART | Brentwood Park & Ride | 7:00 a.m. – 8:00 p.m. | 45 | ... | ... |
| 300 | Antioch BART | Brentwood Park & Ride | 6:38 a.m. – 9:55 p.m. | 38 | ... | ... |
| 391 | Pittsburg Center BART | Brentwood Park & Ride | 6:31 a.m. – 1:28 a.m. | 74 | ... | ... |
| 393 | Antioch BART | Brentwood Park & Ride | 6:00 a.m. – 10:30 p.m. | 15-30 | 7:20 a.m. – 12:05 a.m. | 45 |

Source: Tri Delta Transit website https://trideltatransit.com/local_bus.aspx accessed February 4, 2022

Figure 5: Existing Transit Facilities



LEGEND

- Project Site
- TDT RTE 384
- TDT RTE 391
- Study Intersection
- TDT RTE 300
- TDT RTE 393 (Weekends)



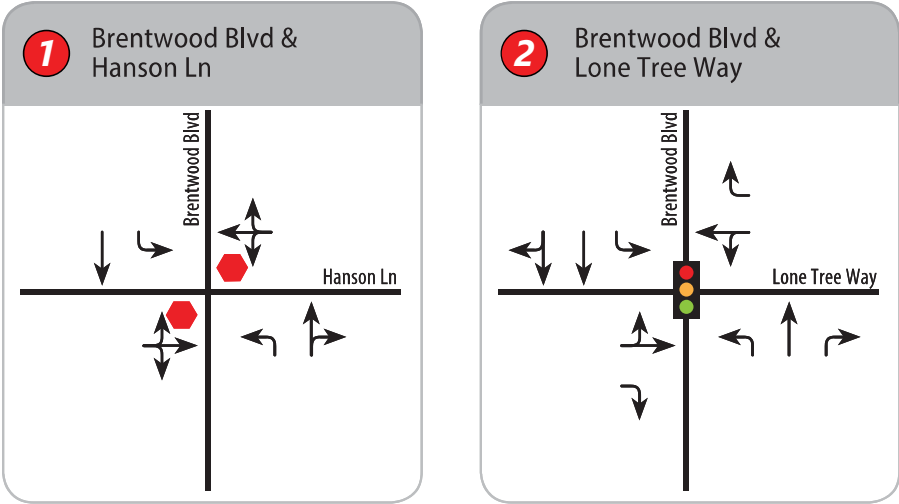
3.5 EXISTING TRAFFIC CONDITIONS

TJKM evaluated existing traffic conditions at selected study intersections during the a.m. and p.m. peak hours on a typical weekday. Intersection turning movement counts of vehicles, bicycles, and pedestrians were collected during weekday a.m. peak period (7:00-9:00 a.m.) and p.m. peak period (4:00-6:00 p.m.) on January 13, 2022.

Due to ongoing traffic irregularities associated with the COVID-19 pandemic, historical counts at one intersection were used as a basis of adjusting new turning movement volumes to estimated typical volumes. The adjusted volumes were then used as the basis for analyzing Existing Conditions. The most recent historical counts in the study area were collected in late 2012 at Brentwood Boulevard & Lone Tree Way, as part of the DEIR for the 2014 Brentwood General Plan. For the a.m. peak hour, 2022 volumes were increased by 10.6 percent to match total volumes in 2012. For the p.m. peak hour, 2020 volumes were higher than 2012 and were left unchanged.

The traffic count data are included in **Appendix A**. The existing lane geometries and traffic control at each study intersection are illustrated on **Figure 6** and intersection turning movement volumes at each study intersection are illustrated on **Figure 7**.

Figure 6: Existing Conditions Lane Geometry and Traffic Controls



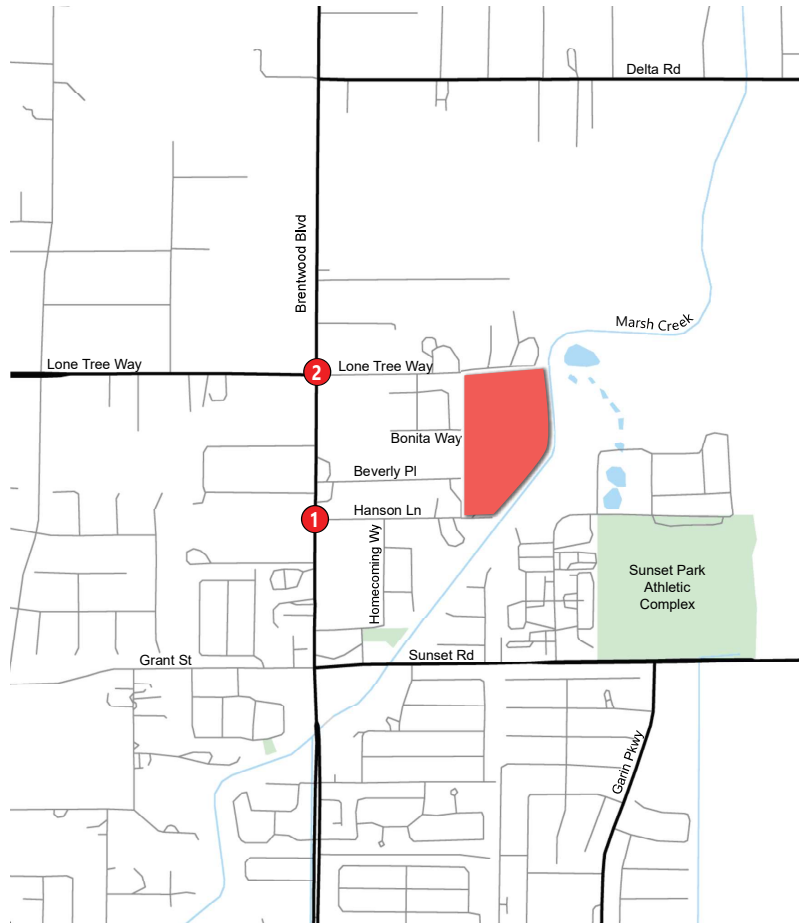
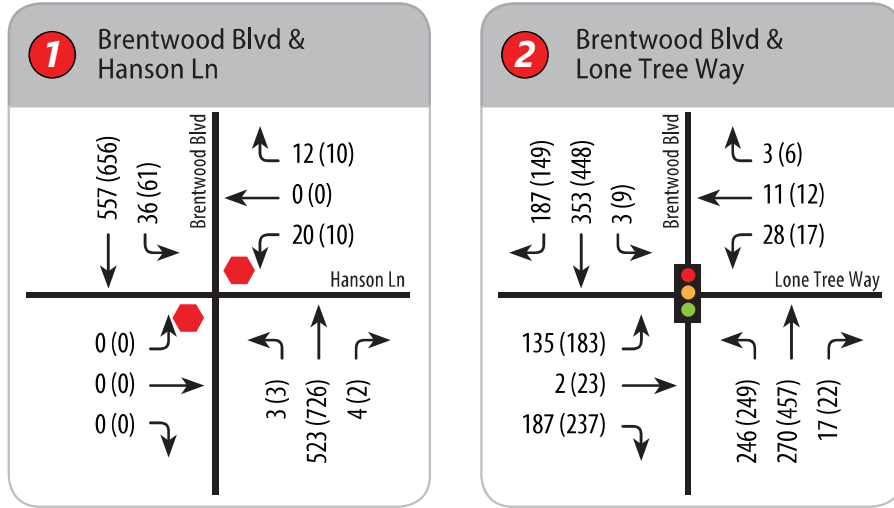
The map shows a street grid with Brentwood Blvd running vertically. Other streets include Delta Rd, Lone Tree Way, Bonita Way, Beverly Pl, Hanson Ln, Homecoming Wy, Grant St, Sunset Rd, and Garin Pkwy. Marsh Creek is shown flowing through the area. A red shaded area indicates the Project Site, located east of Brentwood Blvd between Lone Tree Way and Hanson Ln. A red circle with the number '1' is placed at the intersection of Brentwood Blvd and Hanson Ln, and a red circle with the number '2' is placed at the intersection of Brentwood Blvd and Lone Tree Way. The Sunset Park Athletic Complex is shown as a green shaded area to the east of the project site.

LEGEND

- Project Site
- Study Intersection
- Stop Sign
- Traffic Signal



Figure 7: Existing Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- Study Intersection
- Stop Sign
- Traffic Signal
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes



3.6 INTERSECTION LEVEL OF SERVICE ANALYSIS – EXISTING CONDITIONS

This scenario evaluates the study intersections based on adjusted existing traffic volumes, and existing lane geometry and traffic controls, as described above. The peak hour factors calculated from the existing turning movement counts were used for the study intersections for the Existing Conditions analysis. The results of the LOS analysis using the HCM 6th Ed. methodology and Synchro 10 software program for Existing Conditions are summarized in **Table 4**.

Under this scenario, both of the study intersections operate within applicable jurisdictional standards during both peak hours. Although the controlled westbound movement at Brentwood Boulevard & Hanson Lane operates at LOS E, the total intersection operates at the equivalent of LOS A.

A peak hour signal warrant analysis was also conducted for the unsignalized intersection, to determine if a traffic signal is warranted. A signal **is not warranted** at Brentwood Boulevard & Hanson Lane during either peak hour. LOS and peak hour signal warrant worksheets are provided in **Appendix C**.

Table 4: Intersection Level of Service Analysis – Existing Conditions

| ID | Intersection | Intersection Control | Peak Hour | Existing Conditions | |
|----|---------------------------------|----------------------|-----------|----------------------------|------------------|
| | | | | Average Delay ¹ | LOS ² |
| 1 | Brentwood Blvd. & Hanson Ln. | Two-Way Stop Control | AM | 35.5 | E |
| | | | PM | 40.6 | E |
| | | | AM | 1.4 | A |
| | | | PM | 1.3 | A |
| 2 | Brentwood Blvd. & Lone Tree Way | Signal | AM | 24.8 | C |
| | | | PM | 26.8 | C |

Notes:

AM – morning peak hour, PM – evening peak hour

1. Whole intersection weighted average control delay expressed in seconds per vehicle for signalized and all-way stop controlled intersections. Total control delay for the worst movement is presented for side-street stop – controlled intersections.

2. LOS = Level of Service

Bold indicates unacceptable operational conditions based on applicable jurisdictional standards.

4.0 EXISTING PLUS PROJECT CONDITIONS

This analysis scenario presents the impacts of the proposed project at the study intersections and surrounding roadway system. This scenario is identical to Existing Conditions, but with the addition of traffic from the proposed project. The proposed project would construct 89 single family homes on a site that is currently vacant.

4.1 VEHICLE MILES TRAVELED

As noted in section 2.1, a conservative reading of the methodology would indicate that when the citywide average VMT per resident is above the countywide average, projects cannot be screened out based on location, and a VMT analysis must be completed. In such cases, the appropriate significance thresholds based on countywide or regional average would be applied. The methodology also permits the applicable average VMT for the subject municipality or unincorporated CCTA subregion to be utilized instead of the countywide or regional average, if it is less stringent. For baseline year 2020, the Contra Costa countywide home-based VMT per capita is 19.78. The City of Brentwood has an average home-based VMT per capita of 29.6, higher than the countywide average.

It should be noted that the CCTA travel demand model year 2020 is a simulation, based on data collected prior to the most recent decennial model update in 2016. The 2020 simulated baseline traffic conditions are therefore unaffected by actual pandemic-related traffic disruptions that occurred in 2020.

Existing VMT Generated per Resident

The project site immediately west of Marsh Creek is within the boundary of an existing TAZ (#30320). Within this and surrounding TAZs, the majority of residential units are part of subdivisions similar to the proposed project, primarily single family homes. For this TAZ, based on model simulations for the year 2020, the existing home-based VMT per resident is 21.26. Table 5 shows a summary of the TAZ data for this location. A map showing TAZ boundaries is included in **Appendix B**.

Table 5: Year 2020 VMT Generation

| TAZ # | Description | Population | Home-Based VMT | Home-Based VMT per Capita |
|--------------|---|-------------------|-----------------------|----------------------------------|
| 30320 | Bounded by Marsh Creek, Brentwood Blvd., Lone Tree Way, and TAZ 30319 | 289 | 6,144 | 21.26 |

Notes:

Source: CCTA travel demand model, baseline year 2020, Kittelson & Associates (2016)

Project-Related Residential VMT

The CCTA VMT methodology requires that baseline and baseline plus project scenarios be evaluated, using the most recent baseline CCTA travel demand model. In general, the baseline plus project scenario would be generated by adding the project to the appropriate TAZ and re-running the model simulations. However, the methodology states that for single-use projects that are very similar to the existing uses in the TAZ, “the analyst may conclude that the project generated home-based VMT per capita or home-work VMT per worker will be the same as the existing VMT per capita or per worker in that TAZ,” and a new

travel demand model run with the project is not required. It is expected that the project’s home-based VMT per capita would be 21.26, the same as existing VMT per capita in the project location.

For residential projects, CCTA establishes a significance threshold of 15 percent below the subject municipality) average residential VMT, or below the countywide average VMT, whichever is less stringent. The Contra Costa County average home-based VMT per capita generated by the CCTA travel demand model is 19.78. The City of Brentwood average is 29.6 and thus less stringent. The corresponding significance threshold, 15 percent below the citywide average, is 25.16. This is higher than the existing VMT at the project location. Based on CCTA significance thresholds, the project would produce a **less-than-significant** impact on VMT.

4.2 PROJECT TRIP GENERATION

TJKM developed estimated project trip generation for the proposed project based on published trip generation rates from the ITE publication *Trip Generation (11th Edition)*. TJKM used published trip rates for the ITE land use Single Family Detached Housing (ITE Code 210) for this project. It should be noted that although the project would construct 89 dwelling units, as shown in **Figure 2**, this analysis assumes a 90-unit development. The proposed project is expected to generate 839 total daily trips, including 62 a.m. peak hour trips (19 in, 46 out) and 84 p.m. peak hour trips (53 in, 31 out).

Table 6 shows the trips expected to be generated by the proposed project.

Table 6: Project Trip Generation

| Land Use ² | Size ² | Daily | | AM Peak | | | PM Peak | | | | | | |
|--------------------------------------|-------------------|-------|------------|---------|--------|-----------|-----------|-----------|------|--------|-----------|-----------|-----------|
| | | Rate | Trips | Rate | In:Out | In | Out | Total | Rate | In:Out | In | Out | Total |
| <i>Proposed Uses</i> | | | | | | | | | | | | | |
| Single-Family Detached Housing (210) | 90 DU | 9.43 | 839 | 0.70 | 26:74 | 16 | 46 | 62 | 0.94 | 63:37 | 53 | 31 | 84 |
| Total | | | 839 | | | 16 | 46 | 62 | | | 53 | 31 | 84 |

Notes:

1. *Trip Generation, 11th Edition*, Institute of Transportation Engineers (ITE), 2021

2. DU: dwelling unit

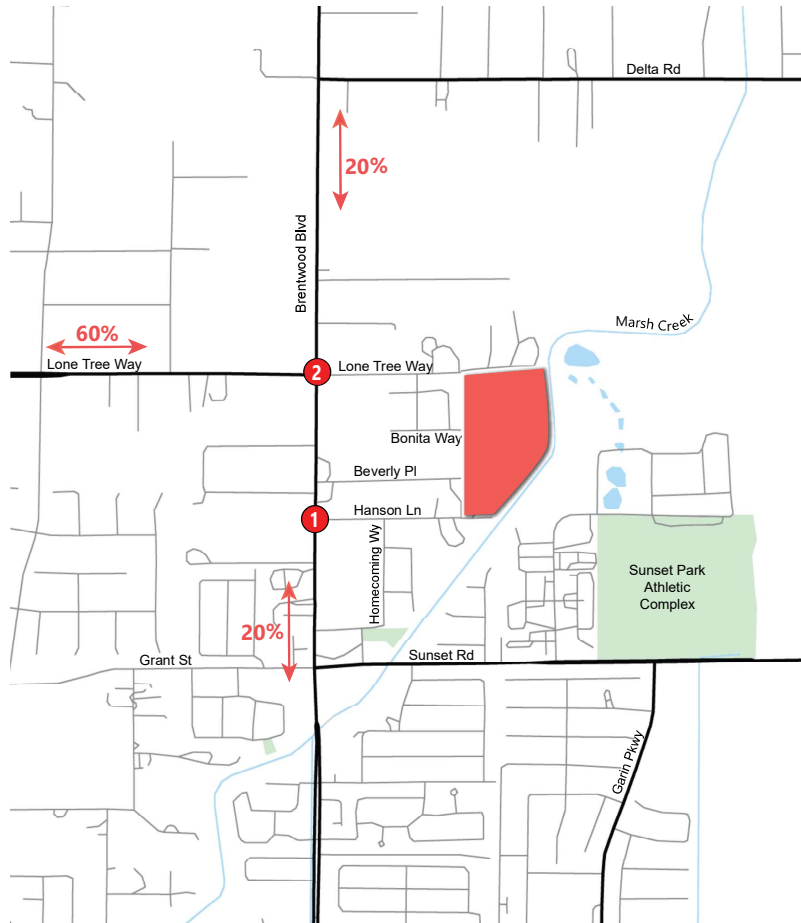
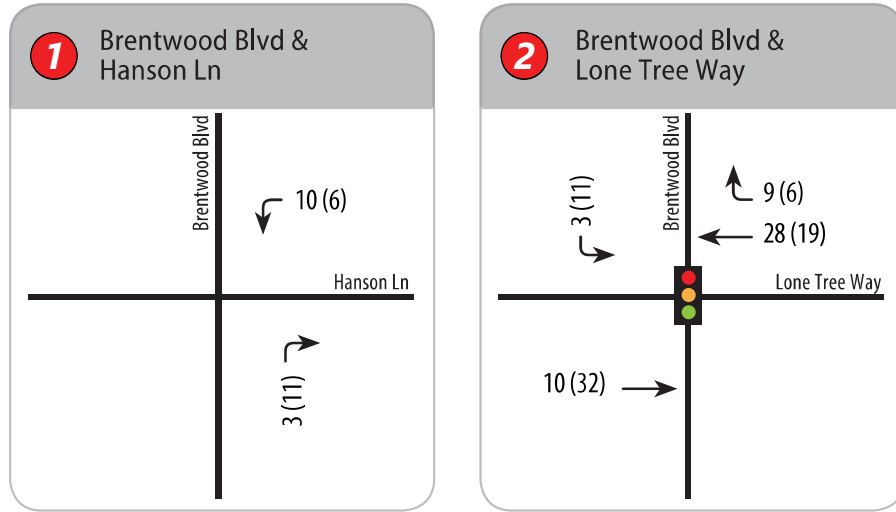
4.3 PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

Trip distribution is a process that determines in what proportion vehicles would be expected to travel between the project site and various destinations outside the project study area. Assignment determines the various routes that vehicles would take from the project site to each destination using the calculated trip distribution. Trip distribution assumptions for the proposed development project were developed based on the existing travel patterns and TJKM’s knowledge of the study area. The distribution assumptions for the proposed project are as follows:

- 60 percent to/from Lone Tree Way to the west
- 20 percent to/from Brentwood Boulevard to the north
- 20 percent to/from Brentwood Boulevard to the south

Figure 8 illustrates the trip distribution and trip assignment at the study intersections. The project trips were then added to traffic volumes under Existing Conditions to generate Existing plus Project Conditions traffic volumes.

Figure 8: Project Trip Distribution and Assignment



LEGEND

- Project Site
- Study Intersection
- Stop Sign
- Traffic Signal
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes
- XX% Trip Distribution



4.4 INTERSECTION LEVEL OF SERVICE ANALYSIS – EXISTING PLUS PROJECT CONDITIONS

The intersection LOS analysis results for Existing plus Project Conditions are summarized in **Table 7**.

Under this scenario, both of the study intersections would continue to operate within applicable jurisdictional standards during both peak hours. Although the controlled westbound movement at Brentwood Boulevard & Hanson Lane would operate at LOS E, the total intersection would continue to operate at the equivalent of LOS A. The project **would be consistent** with level of service standards set forth under the City of Brentwood General Plan and CCTA Congestion Management Program.

A peak hour signal warrant analysis was also conducted for the unsignalized intersection, to determine if a traffic signal is warranted. A signal **is not warranted** at Brentwood Boulevard & Hanson Lane during either peak hour.

Figure 9 shows projected turning movement volumes at all the study intersections for Existing plus Project Conditions. LOS and peak hour signal warrant worksheets are provided in **Appendix D**.

Table 7: Intersection Level of Service Analysis – Existing plus Project Conditions

| ID | Intersection | Intersection Control | Peak Hour | Existing Conditions | | Existing plus Project Conditions | | | |
|--------------------|---------------------------------|----------------------|-----------|----------------------------|------------------|----------------------------------|------------------|------------------------------|-------------------|
| | | | | Average Delay ¹ | LOS ² | Average Delay ¹ | LOS ² | Change in Delay ³ | Signal Warranted? |
| 1 | Brentwood Blvd. & Hanson Ln. | Two-Way | AM | 35.5 | E | 44.8 | E | 9.3 | No |
| | | | PM | 40.6 | E | 54.7 | F | 14.1 | No |
| | | Stop Control | AM | 1.4 | A | 2.1 | A | 0.7 | - |
| | | | PM | 1.3 | A | 2.0 | A | 0.7 | - |
| Whole Intersection | | | | | | | | | |
| 2 | Brentwood Blvd. & Lone Tree Way | Signal | AM | 24.8 | C | 26.9 | C | 2.1 | - |
| | | | PM | 26.8 | C | 28.9 | C | 2.1 | - |

Notes: AM – morning peak hour, PM – evening peak hour, Weekend – Saturday noon peak hour,

Bold indicates unacceptable operational conditions based on applicable jurisdictional standards. **Red** indicates significant impact.

1. Whole intersection weighted average control delay expressed in seconds per vehicle for signalized and all-way stop controlled intersections. Total control delay for the worst movement is presented for side-street stop – controlled intersections.

2. LOS = Level of Service

3. Change in average delay between Existing and Existing plus Project Conditions. Average delay may be reduced with the addition of project traffic to non-critical movements.

4. Change in critical volume to capacity ratio between Existing and Existing plus Project Condition

4.5 INTERSECTION QUEUING ANALYSIS

The 95th percentile queue lengths were calculated at the signalized study intersection of Brentwood Boulevard & Lone Tree Way under Existing and Existing plus Project Conditions. The project would add trips to dedicated left- and right-turn lanes at this intersection. **Table 8** details the existing traffic volumes, added project trips, and queue lengths at all dedicated turn lanes at the signalized study intersections.

Under Existing Conditions, all 95th percentile queue lengths can be fully accommodated in the available storage length. The addition of project trips would not cause any new queue overflows. Queuing worksheets for each scenario are provided in **Appendix C** and **Appendix D**.

Table 8. 95th Percentile Queue Lengths– Existing and Existing plus Project Conditions

| ID | Study Intersection | Lane Group | Storage Length | Peak Hour | Existing Volume | Project Trips | Existing Conditions | Existing plus Project Conditions | |
|-----------------|---------------------------------|------------------|----------------|-----------|-----------------|---------------|---------------------|----------------------------------|-----------------|
| | | | | | | | Queue Length | Queue Length | Change in Queue |
| 2 | Brentwood Blvd. & Lone Tree Way | Eastbound Right | 210 | AM | 187 | 0 | 50 | 50 | 0 |
| | | | | PM | 237 | 0 | 45 | 45 | 0 |
| | | Westbound Right | 50 | AM | 3 | 9 | 0 | 0 | 0 |
| | | | | PM | 6 | 6 | 0 | 0 | 0 |
| | | Northbound Left | 300 | AM | 246 | 0 | 250 | 265 | 15 |
| | | | | PM | 249 | 0 | 240 | 245 | 5 |
| | | Northbound Right | 105 | AM | 17 | 0 | 0 | 0 | 0 |
| | | | | PM | 22 | 0 | 0 | 0 | 0 |
| Southbound Left | 70 | AM | 3 | 3 | 10 | 15 | 5 | | |
| | | PM | 9 | 11 | 20 | 35 | 15 | | |

Notes:

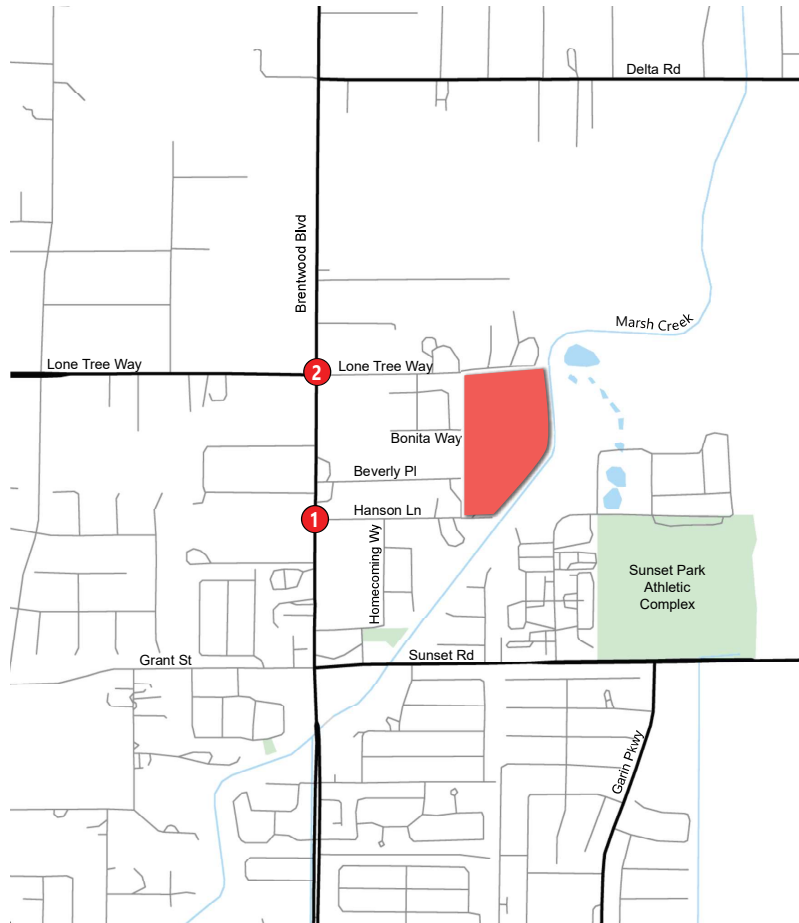
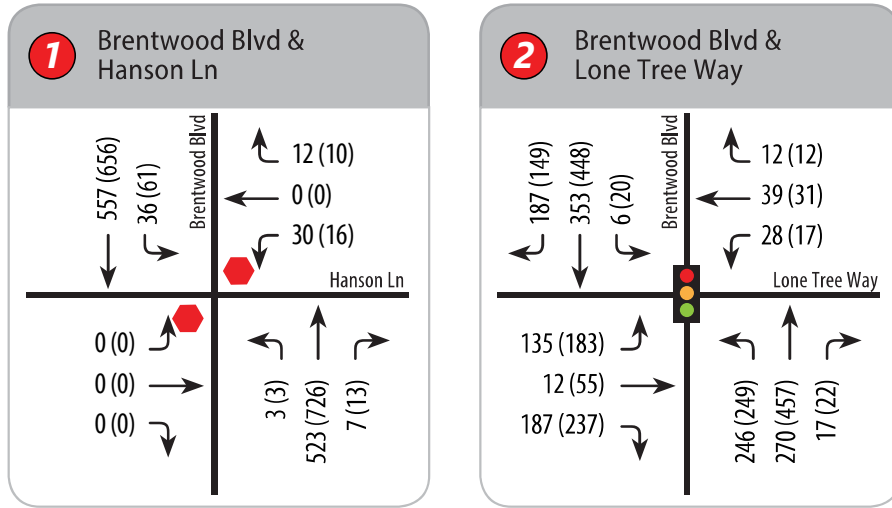
95th percentile queue lengths expressed in feet, rounded to the nearest five feet

* Average storage per lane, where dual turn lanes provide different storage lengths

Bold indicates queue length exceeds storage capacity

Red indicates queue length increases by more than one vehicle length

Figure 9: Existing Plus Project Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- Study Intersection
- Stop Sign
- Traffic Signal
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes



5.0 CUMULATIVE NO-PROJECT CONDITIONS (2040)

The Cumulative No-Project Conditions analysis forecasts how the study area’s transportation system would operate with the growth and changes of the surrounding community by the year 2040. Corridor volumes on Brentwood Boulevard and Lone Tree Way in the immediate project vicinity were obtained from baseline year 2018 and horizon year 2040 in the CCTA traffic model. Based on the growth in these corridor volumes, an annual compounding growth rate of 2.183 was applied to adjusted Existing Conditions to project future 2040 traffic volumes.

Figure 10 shows projected turning movement volumes at the study intersections for Cumulative Conditions for a.m. and p.m. peak hours.

5.1 INTERSECTIONS LEVEL OF SERVICE ANALYSIS – CUMULATIVE NO-PROJECT CONDITIONS

The intersection LOS analysis results for Cumulative No-Project Conditions are summarized in **Table 9**. Under this scenario, the unsignalized intersection of Brentwood Boulevard & Hanson Lane would operate at LOS F on the controlled westbound approach, but the total intersection would operate at the equivalent of acceptable LOS A or B. The signalized intersection of Brentwood Boulevard would degrade to unacceptable LOS E.

A peak hour signal warrant analysis was also conducted for the unsignalized intersection, to determine if a traffic signal is warranted. A signal **is not warranted** at Brentwood Boulevard & Hanson Lane during either peak hour. LOS and peak hour signal warrant worksheets are provided in **Appendix E**.

Table 9: Intersection Level of Service Analysis – Cumulative Conditions

| ID | Intersection | Intersection Control | Peak Hour | Cumulative Conditions | |
|---------------------------|---------------------------------|----------------------|-----------|----------------------------|------------------|
| | | | | Average Delay ¹ | LOS ² |
| 1 | Brentwood Blvd. & Hanson Ln. | Two-Way Stop Control | AM | 287.0 | F |
| | | | PM | 416.4 | F |
| | | | AM | 9.6 | A |
| | | | PM | 10.2 | B |
| <i>Whole Intersection</i> | | | | | |
| 2 | Brentwood Blvd. & Lone Tree Way | Signal | AM | 68.2 | E |
| | | | PM | 71.1 | E |

Notes:

AM – morning peak hour, PM – evening peak hour

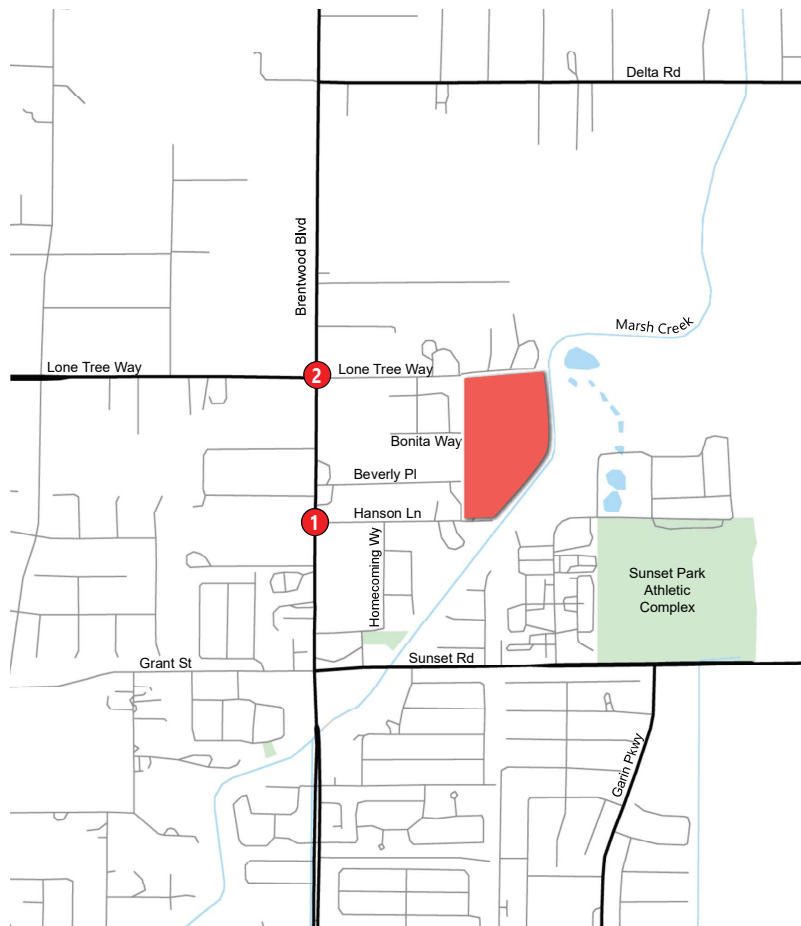
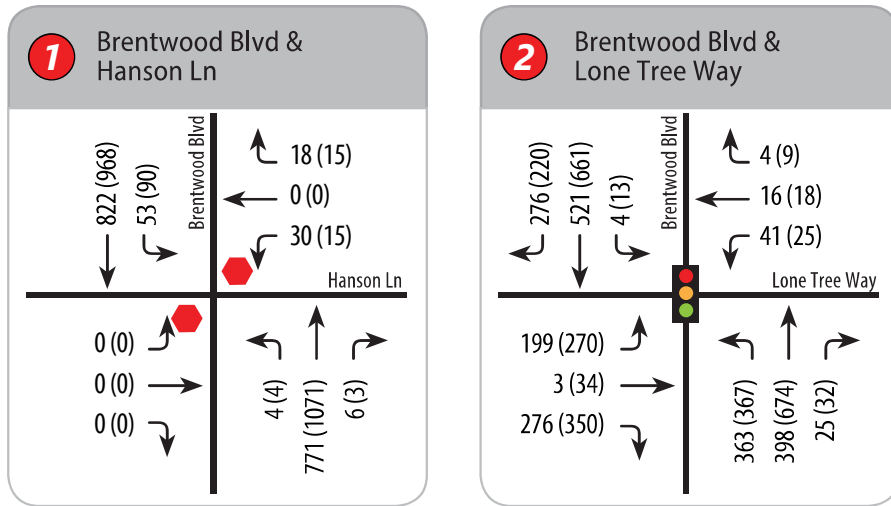
1. Whole intersection weighted average control delay expressed in seconds per vehicle for signalized and all-way stop controlled intersections. Total control delay for the worst movement is presented for side-street stop – controlled intersections.

2. LOS = Level of Service

* CMP intersections with LOS E threshold

Bold indicates unacceptable operational conditions based on applicable jurisdictional standards.

Figure 10: Cumulative Conditions Peak Hour Traffic Volumes



LEGEND

- Project Site
- Study Intersection
- Stop Sign
- Traffic Signal
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes



6.0 CUMULATIVE PLUS PROJECT CONDITIONS

This scenario is identical to Cumulative No-Project Conditions, but with the addition of projected traffic from the proposed project. Trip generation, distribution, and assignment for the proposed project are identical to that assumed under Existing plus Project Conditions.

6.1 INTERSECTION LEVEL OF SERVICE ANALYSIS – CUMULATIVE PLUS PROJECT CONDITIONS

The intersection LOS analysis results for Cumulative plus Project Conditions are summarized in **Table 10**.

Under this scenario, the unsignalized intersection of Brentwood Boulevard & Hanson Lane would continue to operate at LOS F on the controlled westbound approach, and the total intersection would operate at the equivalent of acceptable LOS C. The signalized intersection of Brentwood Boulevard would continue to operate at unacceptable LOS E, with an increase in average delay of 9.3 seconds in the a.m. peak hour and 6.0 seconds in the p.m. peak hour.

Based on the significance threshold applied for this analysis, this is a potential significant inconsistency. However, the increase in delay can be eliminated by optimizing the signal timing at this intersection, with no changes to lane geometry or traffic control. The project **would be consistent** with level of service standards set forth under the City of Brentwood General Plan and CCTA Congestion Management Program.

A peak hour signal warrant analysis was also conducted for the unsignalized intersection, to determine if a traffic signal is warranted. A signal **is not warranted** at Brentwood Boulevard & Hanson Lane during either peak hour.

Figure 11 shows projected turning movement volumes at all the study intersections for Cumulative plus Project Conditions. LOS and peak hour signal warrant worksheets are provided in **Appendix F**

Table 10: Intersection Level of Service Analysis – Cumulative plus Project Conditions

| ID | Intersection | Intersection Control | Peak Hour | Cumulative Conditions | | Cumulative plus Project Conditions | | | |
|----|---------------------------------|-------------------------------------|-----------|----------------------------|------------------|------------------------------------|------------------|------------------------------|-------------------|
| | | | | Average Delay ¹ | LOS ² | Average Delay ¹ | LOS ² | Change in Delay ³ | Signal Warranted? |
| 1 | Brentwood Blvd. & Hanson Ln. | Two-Way Stop Control | AM | 287.0 | F | 426.9 | F | 139.9 | No |
| | | | PM | 416.4 | F | 643.2 | F | 226.8 | No |
| | | <i>Whole Intersection</i> | AM | 9.6 | A | 16.8 | C | 7.2 | - |
| | | | PM | 10.2 | B | 18.3 | C | 8.1 | - |
| 2 | Brentwood Blvd. & Lone Tree Way | Signal | AM | 68.2 | E | 77.5 | E | 9.3 | - |
| | | | PM | 71.1 | E | 77.1 | E | 6.0 | - |
| | | Improvement: Optimize Signal Timing | AM | - | - | 58.3 | E | -9.9 | - |
| | | | PM | - | - | 62.9 | E | -8.2 | - |

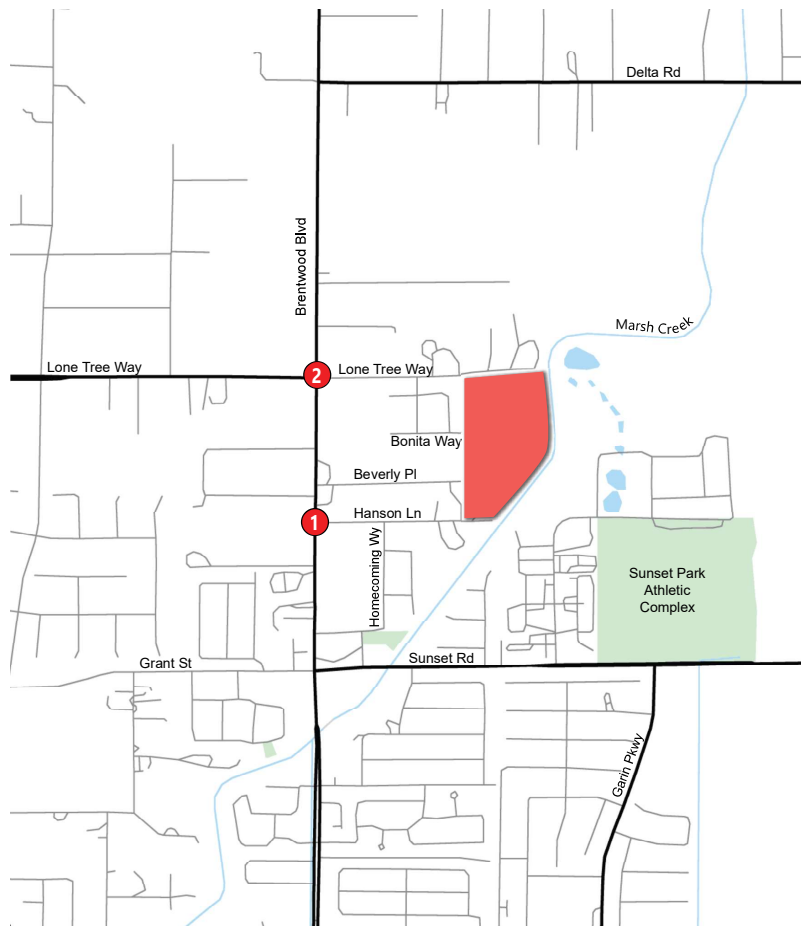
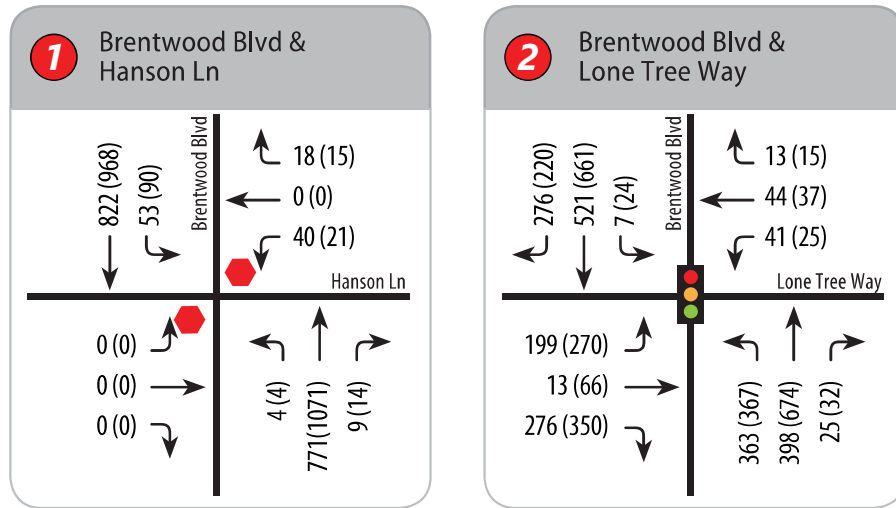
Notes: AM – morning peak hour, PM – evening peak hour, Weekend – Saturday noon peak hour,

Bold indicates unacceptable operational conditions based on applicable jurisdictional standards. **Red** indicates significant impact.

1. Whole intersection weighted average control delay expressed in seconds per vehicle for signalized and all-way stop controlled intersections. Total control delay for the worst movement is presented for side-street stop – controlled intersections.

2. LOS = Level of Service

Figure 11: Cumulative Plus Project Peak Hour Traffic Volumes



LEGEND

- Project Site
- Study Intersection
- Stop Sign
- Traffic Signal
- XX AM Peak Hour Volumes
- (XX) PM Peak Hour Volumes



7.0 ADDITIONAL ANALYSIS

The following sections provide additional analyses of other transportation issues associated with the project site, including:

- Site access and impacts
- Parking analysis
- Recommendations

The analyses in these sections are based on professional judgment in accordance with the standards and methods employed by traffic engineers. Although operational issues are not considered CEQA impacts, they do describe traffic conditions that are relevant to describing the project environment.

7.1 SITE ACCESS, CIRCULATION, AND MULTIMODAL IMPACTS

This section analyzes site access and internal circulation based on the site plan presented in **Figure 2** (dated October 2021) and related plans from the October 2021 submittal package.

Vehicle Access and Circulation

Access to the project site would be provided by extending the existing streets of Hanson Lane and Lone Tree Way, and internal roadways would be constructed connecting both streets. Internal roadways appear to conform to City of Brentwood standard plans for residential streets. In addition, an emergency vehicle access (EVA) point would be provided, extending from the end of Bonita Lane immediately west of the project site and aligned with proposed Street D. Vehicle access to the project site and individual homes is considered **adequate** and would not result in any significant impacts to the nearby roadways.

Pedestrian Access, Circulation, and Impacts

Pedestrian access would be via internal sidewalks connecting to existing sidewalks on Hanson Lane and Lone Tree Way. All internal streets would be provided with sidewalks and adequate curb ramps at corners to provide accessible paths of travel to each home. The open space on the eastern side of the project site, facing Marsh Creek, would also provide a separate pedestrian connection between internal streets. It should be noted that although the existing Beverly Lane ends at the western edge of the project, at the proposed park, no pedestrian connection is proposed. TJKM recommends that a path connecting the park's internal pathways to Beverly Lane be considered.

A significant impact occurs if the proposed project conflicts with applicable or adopted policies, plans or programs related to pedestrians facilities or otherwise decreases the performance or safety of pedestrian facilities. The proposed project will not result in any such conflicts. Pedestrian access to the project site and individual homes is considered **adequate** and would not result in any significant impacts to the nearby pedestrian facilities. As signing and striping plans were not among the submittal package provided, TJKM recommends that crosswalks be marked at natural crossing points with curb ramps.

Bicycle Access, Circulation, and Impacts

As noted in section 3.3, on-street bicycle facilities are limited within the project vicinity. Although Marsh Creek forms the eastern frontage of the site, the Marsh Creek Regional Trail runs along the eastern bank,

with the nearest trail access points to the north at Delta Road and to the south at Grant Street, as shown in **Figure 4**. Class II Bike lanes are also planned along Brentwood Boulevard and Delta Road.

An impact to bicyclists occurs if the proposed project disrupt existing bicycle facilities; or conflict or create inconsistencies with adopted bicycle system plans, guidelines, and policies. A significant impact occurs if the proposed project conflicts with applicable or adopted policies, plans or programs related to bicycle facilities or otherwise decrease the performance or safety of bicycle facilities. The proposed project will not result in any such conflicts. Bicycle access to the project site is considered **adequate** and would not result in any significant impacts to the nearby bicycle facilities.

Transit Access and Impacts

A proposed project is considered to have a significant impact on transit if it conflicts with existing or planned transit facilities, or is expected to generate additional transit trips and does not provide adequate facilities for pedestrians and bicyclists to access transit routes and stops. The project is located within an approximately 0.3 mile walk of bus stops on Brentwood Boulevard, which are served by multiple bus lines. Although bus frequencies are low, the project site is adequately served by the transit service, as shown in **Figure 5**. The transit service within the immediate project site operates within capacity, and additional trips generated by the proposed project could be accommodated by existing bus services. Therefore, transit access to the project site is considered **adequate** and would not result in any significant impacts to the nearby transit network.

7.2 PARKING

Under the City of Brentwood zoning regulations, the proposed project is classified as a single family residential use. For single family dwelling units, the City of Brentwood Municipal Code Chapter 17.620-007 requires two covered spaces per home, both of which must be enclosed in a garage.

As shown in the site plan dated October 2021 (**Figure 2**), the proposed project will construct 89 single family homes. All homes would include a two car garage, plus driveway aprons that can provide two additional uncovered spaces. The proposed parking supply would therefore be more than **adequate** under City of Brentwood requirements and would not produce any parking impacts on surrounding parcels or roadways.

7.3 RECOMMENDATIONS

TJKM recommends the following:

- Consider the addition of a pedestrian connection between the proposed park and Beverly Lane.
- On signing and striping plan, include marked crosswalks at internal intersections with curb ramps.

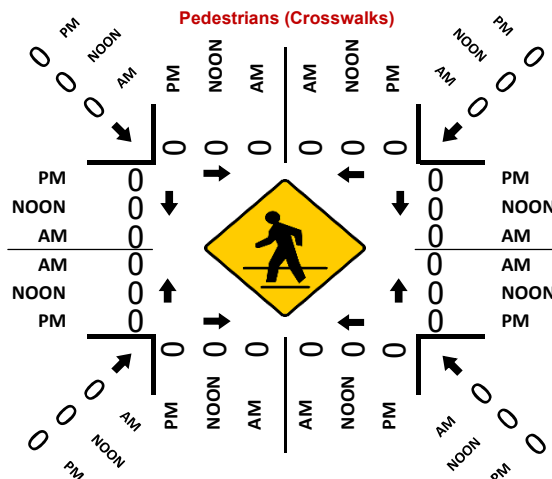
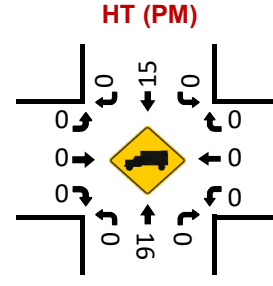
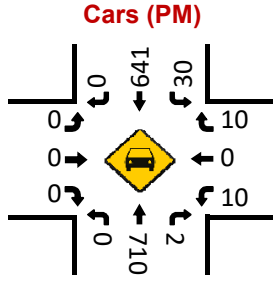
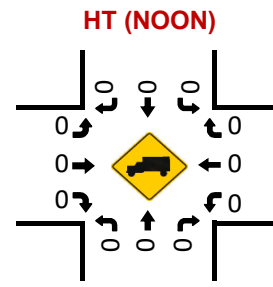
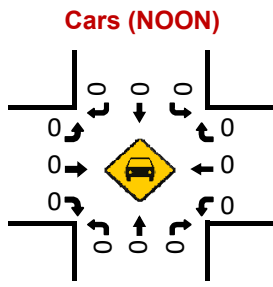
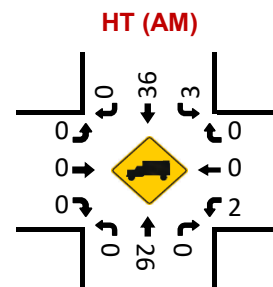
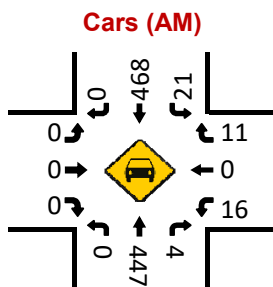
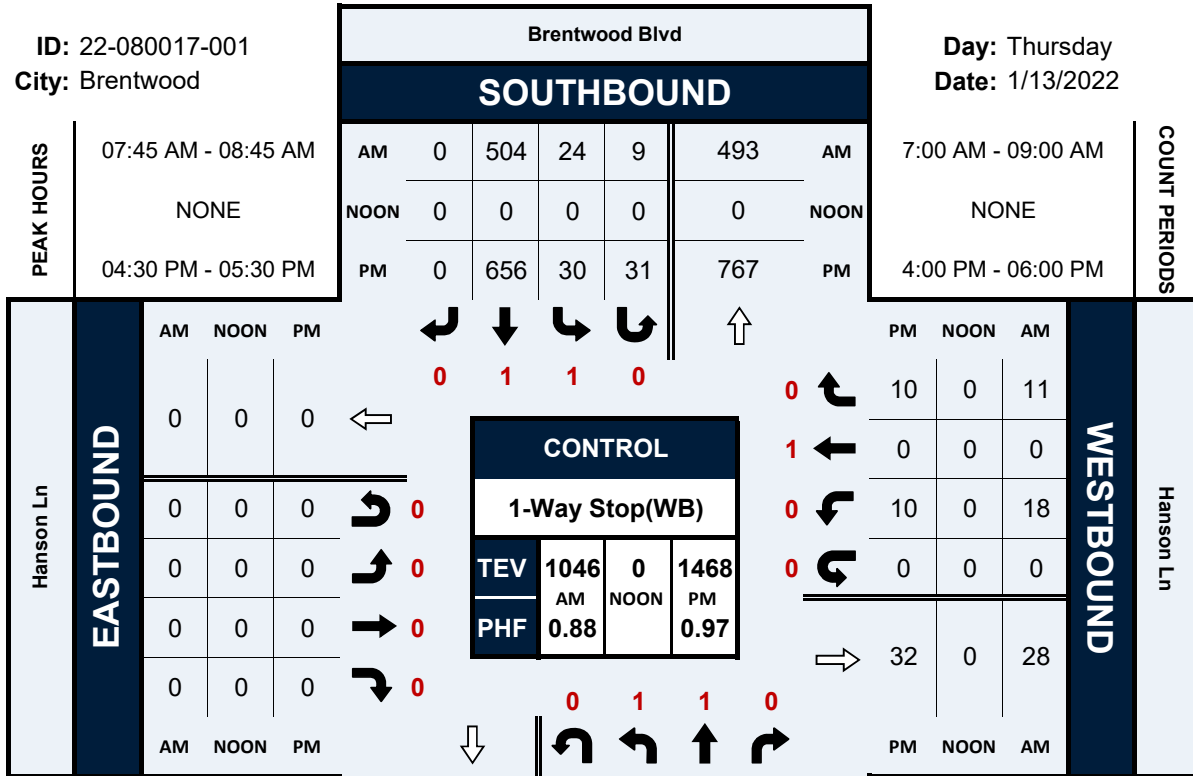
Appendix A – Existing Turning Movement Counts

Brentwood Blvd & Hanson Ln

Peak Hour Turning Movement Count

ID: 22-080017-001
City: Brentwood

Day: Thursday
Date: 1/13/2022



National Data & Surveying Services **Intersection Turning Movement Count**

Location: Brentwood Blvd & Hanson Ln
City: Brentwood
Control: 1-Way Stop(WB)

Project ID: 22-080017-001
Date: 1/13/2022

Data - Cars

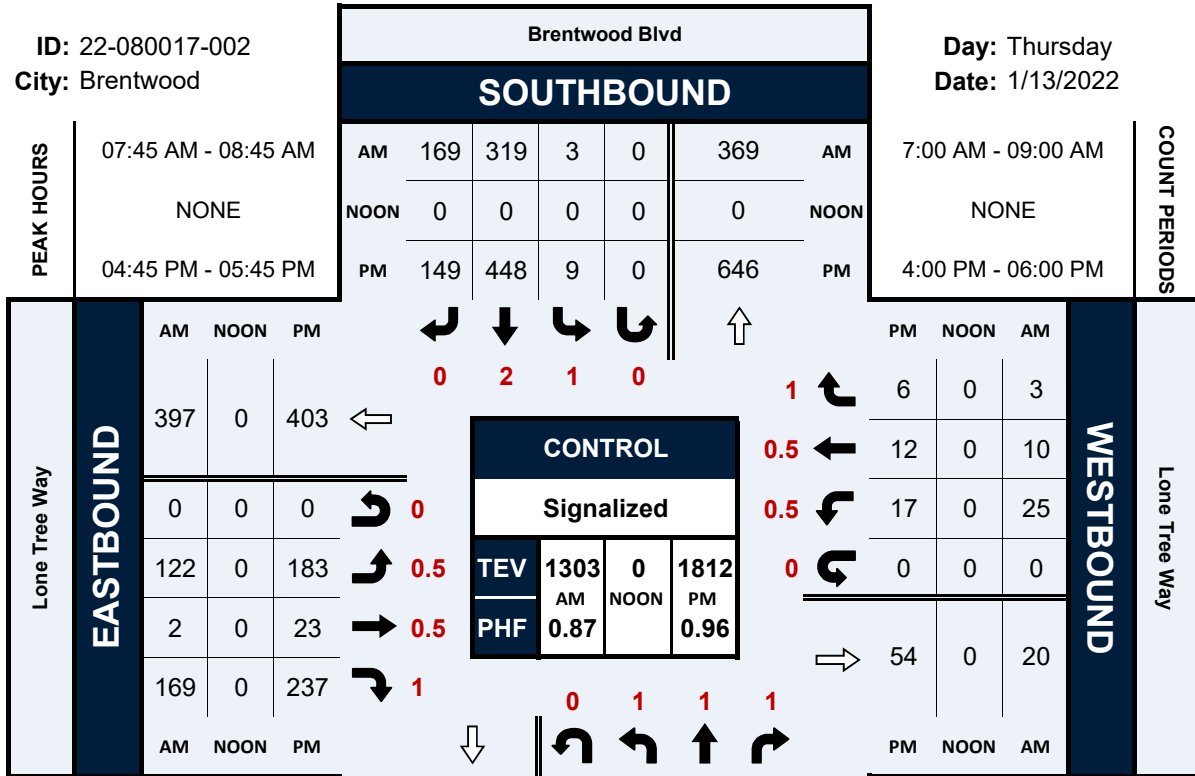
| NS/EW Streets: | Brentwood Blvd | | | | Brentwood Blvd | | | | Hanson Ln | | | | Hanson Ln | | | | |
|-------------------------|---------------------|--------|-------|-------|----------------|--------|-------|-------|-----------|-------|-------|-------|-----------|-------|--------|-------|-------|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | |
| | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | TOTAL |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | |
| | 0 | 52 | 0 | 0 | 0 | 63 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 118 |
| | 0 | 72 | 0 | 1 | 2 | 100 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | 182 |
| | 0 | 93 | 0 | 0 | 5 | 111 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 214 |
| | 0 | 114 | 0 | 0 | 8 | 152 | 0 | 2 | 0 | 0 | 0 | 0 | 4 | 0 | 3 | 0 | 283 |
| | 0 | 127 | 1 | 1 | 2 | 124 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 264 |
| | 0 | 113 | 2 | 1 | 3 | 92 | 0 | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 217 |
| | 0 | 93 | 1 | 1 | 8 | 100 | 0 | 2 | 0 | 0 | 0 | 0 | 6 | 0 | 4 | 0 | 215 |
| 0 | 107 | 0 | 0 | 8 | 119 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 239 | |
| TOTAL VOLUMES : | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | 0 | 771 | 4 | 4 | 36 | 861 | 0 | 13 | 0 | 0 | 0 | 0 | 25 | 0 | 18 | 0 | 1732 |
| | 0.00% | 98.97% | 0.51% | 0.51% | 3.96% | 94.62% | 0.00% | 1.43% | | | | | 58.14% | 0.00% | 41.86% | 0.00% | |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 0 | 447 | 4 | 3 | 21 | 468 | 0 | 9 | 0 | 0 | 0 | 0 | 16 | 0 | 11 | 0 | 979 |
| PEAK HR FACTOR : | 0.000 | 0.880 | 0.500 | 0.750 | 0.656 | 0.770 | 0.000 | 0.563 | 0.000 | 0.000 | 0.000 | 0.000 | 0.667 | 0.000 | 0.688 | 0.000 | 0.865 |
| | | | 0.880 | | | 0.769 | | | | | | | | 0.675 | | | |
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | |
| | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | TOTAL |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | |
| | 0 | 153 | 2 | 0 | 3 | 147 | 0 | 6 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 316 |
| | 0 | 153 | 0 | 1 | 5 | 128 | 0 | 8 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 297 |
| | 0 | 185 | 0 | 0 | 7 | 134 | 0 | 6 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 338 |
| | 0 | 178 | 0 | 0 | 12 | 167 | 0 | 7 | 0 | 0 | 0 | 0 | 5 | 0 | 4 | 0 | 373 |
| | 0 | 159 | 0 | 3 | 6 | 174 | 0 | 7 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 353 |
| | 0 | 188 | 2 | 0 | 5 | 166 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 373 |
| | 0 | 157 | 0 | 1 | 9 | 151 | 0 | 4 | 0 | 0 | 0 | 0 | 7 | 0 | 1 | 0 | 330 |
| 0 | 139 | 0 | 2 | 6 | 136 | 0 | 7 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 295 | |
| TOTAL VOLUMES : | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | TOTAL |
| APPROACH %'s : | 0 | 1312 | 4 | 7 | 53 | 1203 | 0 | 56 | 0 | 0 | 0 | 0 | 26 | 0 | 14 | 0 | 2675 |
| | 0.00% | 99.17% | 0.30% | 0.53% | 4.04% | 91.69% | 0.00% | 4.27% | | | | | 65.00% | 0.00% | 35.00% | 0.00% | |
| PEAK HR : | 04:30 PM - 05:30 PM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 0 | 710 | 2 | 3 | 30 | 641 | 0 | 31 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 1437 |
| PEAK HR FACTOR : | 0.000 | 0.944 | 0.250 | 0.250 | 0.625 | 0.921 | 0.000 | 0.705 | 0.000 | 0.000 | 0.000 | 0.000 | 0.500 | 0.000 | 0.625 | 0.000 | 0.963 |
| | | | 0.941 | | | 0.939 | | | | | | | | 0.556 | | | |

Brentwood Blvd & Lone Tree Way

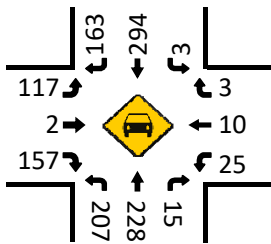
Peak Hour Turning Movement Count

ID: 22-080017-002
City: Brentwood

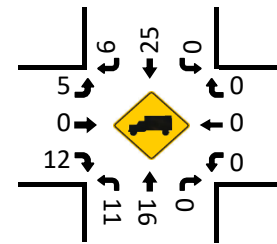
Day: Thursday
Date: 1/13/2022



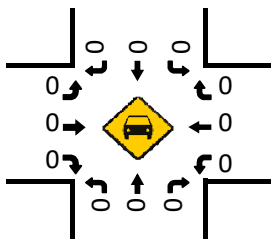
Cars (AM)



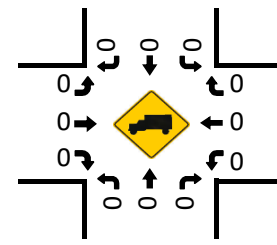
HT (AM)



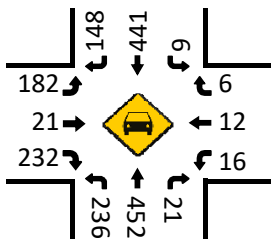
Cars (NOON)



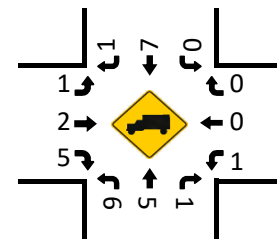
HT (NOON)



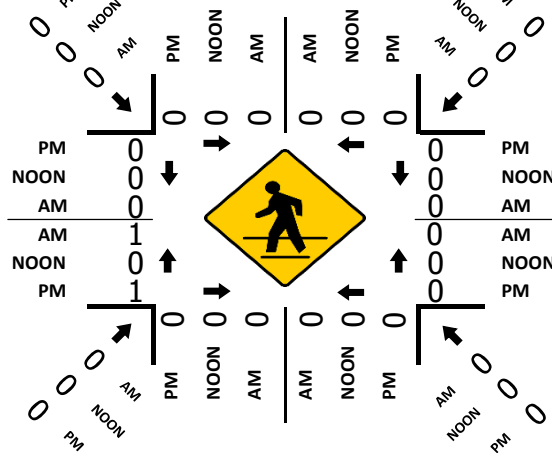
Cars (PM)



HT (PM)



Pedestrians (Crosswalks)



National Data & Surveying Services Intersection Turning Movement Count

Location: Brentwood Blvd & Lone Tree Way
City: Brentwood
Control: Signalized

Project ID: 22-080017-002
Date: 1/13/2022

Data - Total

| NS/EW Streets: | Brentwood Blvd | | | | Brentwood Blvd | | | | Lone Tree Way | | | | Lone Tree Way | | | | TOTAL |
|-------------------------|---------------------|--------|-------|-------|----------------|--------|--------|-------|---------------|-------|--------|-------|---------------|--------|--------|-------|--------------|
| | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | |
| AM | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0.5 | 0.5 | 1 | 0 | 0.5 | 0.5 | 1 | 0 | TOTAL |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | |
| 7:00 AM | 31 | 30 | 1 | 0 | 1 | 43 | 13 | 0 | 12 | 2 | 27 | 0 | 0 | 4 | 0 | 0 | 164 |
| 7:15 AM | 22 | 62 | 1 | 1 | 1 | 72 | 16 | 0 | 11 | 1 | 34 | 0 | 2 | 3 | 1 | 0 | 227 |
| 7:30 AM | 36 | 50 | 1 | 0 | 2 | 85 | 19 | 0 | 21 | 2 | 34 | 0 | 5 | 4 | 1 | 0 | 260 |
| 7:45 AM | 57 | 65 | 4 | 2 | 2 | 101 | 47 | 0 | 31 | 0 | 52 | 0 | 10 | 3 | 1 | 0 | 375 |
| 8:00 AM | 68 | 62 | 7 | 0 | 0 | 78 | 50 | 0 | 37 | 1 | 40 | 0 | 6 | 4 | 2 | 0 | 355 |
| 8:15 AM | 51 | 63 | 2 | 1 | 1 | 58 | 48 | 0 | 27 | 0 | 37 | 0 | 4 | 3 | 0 | 0 | 295 |
| 8:30 AM | 42 | 54 | 2 | 1 | 0 | 82 | 24 | 0 | 27 | 1 | 40 | 0 | 5 | 0 | 0 | 0 | 278 |
| 8:45 AM | 52 | 69 | 2 | 0 | 0 | 75 | 16 | 0 | 26 | 2 | 41 | 0 | 5 | 1 | 1 | 0 | 290 |
| TOTAL VOLUMES : | 359 | 455 | 20 | 5 | 7 | 594 | 233 | 0 | 192 | 9 | 305 | 0 | 37 | 22 | 6 | 0 | 2244 |
| APPROACH %'s : | 42.79% | 54.23% | 2.38% | 0.60% | 0.84% | 71.22% | 27.94% | 0.00% | 37.94% | 1.78% | 60.28% | 0.00% | 56.92% | 33.85% | 9.23% | 0.00% | |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 218 | 244 | 15 | 4 | 3 | 319 | 169 | 0 | 122 | 2 | 169 | 0 | 25 | 10 | 3 | 0 | 1303 |
| PEAK HR FACTOR : | 0.801 | 0.938 | 0.536 | 0.500 | 0.375 | 0.790 | 0.845 | 0.000 | 0.824 | 0.500 | 0.813 | 0.000 | 0.625 | 0.625 | 0.375 | 0.000 | 0.869 |
| | 0.878 | | | | 0.818 | | | | 0.883 | | | | 0.679 | | | | |
| PM | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0.5 | 0.5 | 1 | 0 | 0.5 | 0.5 | 1 | 0 | TOTAL |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | |
| 4:00 PM | 57 | 104 | 9 | 3 | 2 | 100 | 39 | 0 | 44 | 2 | 61 | 0 | 2 | 2 | 4 | 0 | 429 |
| 4:15 PM | 66 | 87 | 4 | 1 | 2 | 87 | 41 | 0 | 41 | 10 | 46 | 0 | 1 | 3 | 0 | 0 | 389 |
| 4:30 PM | 62 | 132 | 6 | 1 | 1 | 114 | 35 | 0 | 41 | 2 | 49 | 0 | 4 | 1 | 2 | 0 | 450 |
| 4:45 PM | 71 | 116 | 1 | 4 | 1 | 117 | 51 | 0 | 40 | 5 | 62 | 0 | 2 | 1 | 1 | 0 | 472 |
| 5:00 PM | 70 | 93 | 7 | 1 | 1 | 124 | 23 | 0 | 44 | 4 | 51 | 0 | 5 | 3 | 3 | 0 | 429 |
| 5:15 PM | 52 | 133 | 9 | 2 | 2 | 108 | 43 | 0 | 37 | 5 | 61 | 0 | 4 | 4 | 1 | 0 | 461 |
| 5:30 PM | 49 | 115 | 5 | 0 | 5 | 99 | 32 | 0 | 62 | 9 | 63 | 0 | 6 | 4 | 1 | 0 | 450 |
| 5:45 PM | 49 | 97 | 2 | 2 | 1 | 91 | 30 | 0 | 37 | 3 | 60 | 0 | 2 | 3 | 2 | 0 | 379 |
| TOTAL VOLUMES : | 476 | 877 | 43 | 14 | 15 | 840 | 294 | 0 | 346 | 40 | 453 | 0 | 26 | 21 | 14 | 0 | 3459 |
| APPROACH %'s : | 33.76% | 62.20% | 3.05% | 0.99% | 1.31% | 73.11% | 25.59% | 0.00% | 41.24% | 4.77% | 53.99% | 0.00% | 42.62% | 34.43% | 22.95% | 0.00% | |
| PEAK HR : | 04:45 PM - 05:45 PM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 242 | 457 | 22 | 7 | 9 | 448 | 149 | 0 | 183 | 23 | 237 | 0 | 17 | 12 | 6 | 0 | 1812 |
| PEAK HR FACTOR : | 0.852 | 0.859 | 0.611 | 0.438 | 0.450 | 0.903 | 0.730 | 0.000 | 0.738 | 0.639 | 0.940 | 0.000 | 0.708 | 0.750 | 0.500 | 0.000 | 0.960 |
| | 0.929 | | | | 0.896 | | | | 0.826 | | | | 0.795 | | | | |

National Data & Surveying Services Intersection Turning Movement Count

Location: Brentwood Blvd & Lone Tree Way
City: Brentwood
Control: Signalized

Project ID: 22-080017-002
Date: 1/13/2022

Data - Cars

| NS/EW Streets: | Brentwood Blvd | | | | Brentwood Blvd | | | | Lone Tree Way | | | | Lone Tree Way | | | | |
|-------------------------|---------------------|--------|-------|-------|----------------|--------|--------|-------|---------------|-------|--------|-------|---------------|--------|--------|-------|--------------|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | |
| | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0.5 | 0.5 | 1 | 0 | 0.5 | 0.5 | 1 | 0 | |
| 7:00 AM | 27 | 27 | 1 | 0 | 1 | 40 | 13 | 0 | 12 | 2 | 25 | 0 | 0 | 4 | 0 | 0 | |
| 7:15 AM | 20 | 56 | 1 | 1 | 1 | 69 | 16 | 0 | 10 | 1 | 29 | 0 | 2 | 3 | 1 | 0 | |
| 7:30 AM | 34 | 50 | 1 | 0 | 1 | 80 | 18 | 0 | 21 | 2 | 33 | 0 | 5 | 4 | 1 | 0 | |
| 7:45 AM | 54 | 61 | 4 | 2 | 2 | 97 | 46 | 0 | 31 | 0 | 50 | 0 | 10 | 3 | 1 | 0 | |
| 8:00 AM | 68 | 56 | 7 | 0 | 0 | 70 | 46 | 0 | 35 | 1 | 38 | 0 | 6 | 4 | 2 | 0 | |
| 8:15 AM | 48 | 59 | 2 | 1 | 1 | 54 | 48 | 0 | 26 | 0 | 35 | 0 | 4 | 3 | 0 | 0 | |
| 8:30 AM | 37 | 52 | 2 | 1 | 0 | 73 | 23 | 0 | 25 | 1 | 34 | 0 | 5 | 0 | 0 | 0 | |
| 8:45 AM | 46 | 63 | 2 | 0 | 0 | 72 | 16 | 0 | 22 | 2 | 38 | 0 | 5 | 0 | 1 | 0 | |
| TOTAL VOLUMES : | 334 | 424 | 20 | 5 | 6 | 555 | 226 | 0 | 182 | 9 | 282 | 0 | 37 | 21 | 6 | 0 | |
| APPROACH %'s : | 42.66% | 54.15% | 2.55% | 0.64% | 0.76% | 70.52% | 28.72% | 0.00% | 38.48% | 1.90% | 59.62% | 0.00% | 57.81% | 32.81% | 9.38% | 0.00% | |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 207 | 228 | 15 | 4 | 3 | 294 | 163 | 0 | 117 | 2 | 157 | 0 | 25 | 10 | 3 | 0 | |
| PEAK HR FACTOR : | 0.761 | 0.934 | 0.536 | 0.500 | 0.375 | 0.758 | 0.849 | 0.000 | 0.836 | 0.500 | 0.785 | 0.000 | 0.625 | 0.625 | 0.375 | 0.000 | |
| | 0.866 | | | | 0.793 | | | | 0.852 | | | | 0.679 | | | | 0.850 |
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | |
| | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0.5 | 0.5 | 1 | 0 | 0.5 | 0.5 | 1 | 0 | |
| 4:00 PM | 52 | 102 | 9 | 3 | 2 | 97 | 39 | 0 | 43 | 2 | 60 | 0 | 2 | 2 | 4 | 0 | |
| 4:15 PM | 65 | 85 | 4 | 1 | 2 | 83 | 40 | 0 | 41 | 9 | 42 | 0 | 1 | 2 | 0 | 0 | |
| 4:30 PM | 61 | 127 | 6 | 1 | 1 | 108 | 32 | 0 | 41 | 2 | 48 | 0 | 4 | 1 | 2 | 0 | |
| 4:45 PM | 69 | 113 | 1 | 4 | 1 | 116 | 51 | 0 | 39 | 5 | 60 | 0 | 2 | 1 | 1 | 0 | |
| 5:00 PM | 68 | 93 | 7 | 1 | 1 | 122 | 23 | 0 | 44 | 4 | 51 | 0 | 5 | 3 | 3 | 0 | |
| 5:15 PM | 50 | 132 | 9 | 2 | 2 | 105 | 43 | 0 | 37 | 5 | 60 | 0 | 4 | 4 | 1 | 0 | |
| 5:30 PM | 49 | 114 | 4 | 0 | 5 | 98 | 31 | 0 | 62 | 7 | 61 | 0 | 5 | 4 | 1 | 0 | |
| 5:45 PM | 49 | 97 | 2 | 2 | 1 | 91 | 30 | 0 | 37 | 3 | 60 | 0 | 2 | 3 | 2 | 0 | |
| TOTAL VOLUMES : | 463 | 863 | 42 | 14 | 15 | 820 | 289 | 0 | 344 | 37 | 442 | 0 | 25 | 20 | 14 | 0 | |
| APPROACH %'s : | 33.50% | 62.45% | 3.04% | 1.01% | 1.33% | 72.95% | 25.71% | 0.00% | 41.80% | 4.50% | 53.71% | 0.00% | 42.37% | 33.90% | 23.73% | 0.00% | |
| PEAK HR : | 04:45 PM - 05:45 PM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 236 | 452 | 21 | 7 | 9 | 441 | 148 | 0 | 182 | 21 | 232 | 0 | 16 | 12 | 6 | 0 | |
| PEAK HR FACTOR : | 0.855 | 0.856 | 0.583 | 0.438 | 0.450 | 0.904 | 0.725 | 0.000 | 0.734 | 0.750 | 0.951 | 0.000 | 0.800 | 0.750 | 0.500 | 0.000 | |
| | 0.927 | | | | 0.890 | | | | 0.837 | | | | 0.773 | | | | 0.963 |

National Data & Surveying Services Intersection Turning Movement Count

Location: Brentwood Blvd & Lone Tree Way
City: Brentwood
Control: Signalized

Project ID: 22-080017-002
Date: 1/13/2022

Data - HT

| NS/EW Streets: | Brentwood Blvd | | | | Brentwood Blvd | | | | Lone Tree Way | | | | Lone Tree Way | | | | | |
|-------------------------|---------------------|--------|-------|-------|----------------|--------|--------|-------|---------------|--------|--------|--------|---------------|--------|---------|-------|--------------|-------|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL | |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | | |
| 7:00 AM | 4 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 12 |
| 7:15 AM | 2 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7:30 AM | 2 | 0 | 0 | 0 | 1 | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| 7:45 AM | 3 | 4 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| 8:00 AM | 0 | 6 | 0 | 0 | 0 | 8 | 4 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 22 |
| 8:15 AM | 3 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 14 |
| 8:30 AM | 5 | 2 | 0 | 0 | 0 | 9 | 1 | 0 | 0 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 25 |
| 8:45 AM | 6 | 6 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 23 |
| TOTAL VOLUMES : | 25 | 31 | 0 | 0 | 1 | 39 | 7 | 0 | 0 | 10 | 0 | 23 | 0 | 0 | 1 | 0 | 0 | 137 |
| APPROACH %'s : | 44.64% | 55.36% | 0.00% | 0.00% | 2.13% | 82.98% | 14.89% | 0.00% | 0.00% | 30.30% | 0.00% | 69.70% | 0.00% | 0.00% | 100.00% | 0.00% | 0.00% | |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL | |
| PEAK HR VOL : | 11 | 16 | 0 | 0 | 0 | 25 | 6 | 0 | 0 | 5 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 75 |
| PEAK HR FACTOR : | 0.550 | 0.667 | 0.000 | 0.000 | 0.000 | 0.694 | 0.375 | 0.000 | 0.000 | 0.625 | 0.000 | 0.500 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.750 |
| | 0.964 | | | | | | | | | | | | | | | | | |
| | 0.646 | | | | | | | | | | | | | | | | | |
| | 0.531 | | | | | | | | | | | | | | | | | |
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL | |
| | NL | NT | NR | NU | SL | ST | SR | SU | EL | ET | ER | EU | WL | WT | WR | WU | | |
| 4:00 PM | 5 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 12 |
| 4:15 PM | 1 | 2 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 1 | 0 | 0 | 14 |
| 4:30 PM | 1 | 5 | 0 | 0 | 0 | 6 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 16 |
| 4:45 PM | 2 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:00 PM | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 5:15 PM | 2 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5:30 PM | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 9 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES : | 13 | 14 | 1 | 0 | 0 | 20 | 5 | 0 | 0 | 2 | 3 | 11 | 0 | 1 | 1 | 0 | 0 | 71 |
| APPROACH %'s : | 46.43% | 50.00% | 3.57% | 0.00% | 0.00% | 80.00% | 20.00% | 0.00% | 0.00% | 12.50% | 18.75% | 68.75% | 0.00% | 50.00% | 50.00% | 0.00% | 0.00% | |
| PEAK HR : | 04:45 PM - 05:45 PM | | | | | | | | | | | | | | | | TOTAL | |
| PEAK HR VOL : | 6 | 5 | 1 | 0 | 0 | 7 | 1 | 0 | 0 | 1 | 2 | 5 | 0 | 1 | 0 | 0 | 0 | 29 |
| PEAK HR FACTOR : | 0.750 | 0.417 | 0.250 | 0.000 | 0.000 | 0.583 | 0.250 | 0.000 | 0.000 | 0.250 | 0.250 | 0.625 | 0.000 | 0.250 | 0.000 | 0.000 | 0.000 | 0.806 |
| | 0.600 | | | | | | | | | | | | | | | | | |
| | 0.667 | | | | | | | | | | | | | | | | | |
| | 0.500 | | | | | | | | | | | | | | | | | |
| | 0.250 | | | | | | | | | | | | | | | | | |

National Data & Surveying Services Intersection Turning Movement Count

Location: Brentwood Blvd & Lone Tree Way
City: Brentwood
Control: Signalized

Project ID: 22-080017-002
Date: 1/13/2022

Data - Bikes

| NS/EW Streets: | Brentwood Blvd | | | | Brentwood Blvd | | | | Lone Tree Way | | | | Lone Tree Way | | | | |
|-------------------------|---------------------|---------|---------|---------|----------------|---------|---------|---------|---------------|-----------|---------|---------|---------------|-----------|---------|---------|--------------|
| AM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | 1 NL | 1 NT | 1 NR | 0 NU | 1 SL | 2 ST | 0 SR | 0 SU | 0.5 EL | 0.5 ET | 1 ER | 0 EU | 0.5 WL | 0.5 WT | 1 WR | 0 WU | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| APPROACH %'s : | | | | | | | | | | | | | | | | | |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PEAK HR FACTOR : | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| NS/EW Streets: | Brentwood Blvd | | | | Brentwood Blvd | | | | Lone Tree Way | | | | Lone Tree Way | | | | |
|-------------------------|---------------------|---------|---------|---------|----------------|---------|---------|---------|---------------|-----------|---------|---------|---------------|-----------|---------|---------|--------------|
| PM | NORTHBOUND | | | | SOUTHBOUND | | | | EASTBOUND | | | | WESTBOUND | | | | TOTAL |
| | 1 NL | 1 NT | 1 NR | 0 NU | 1 SL | 2 ST | 0 SR | 0 SU | 0.5 EL | 0.5 ET | 1 ER | 0 EU | 0.5 WL | 0.5 WT | 1 WR | 0 WU | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES : | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 |
| APPROACH %'s : | 0.00% | 0.00% | 100.00% | 0.00% | | | | | | | | | 100.00% | 0.00% | 0.00% | 0.00% | |
| PEAK HR : | 04:45 PM - 05:45 PM | | | | | | | | | | | | | | | | TOTAL |
| PEAK HR VOL : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| PEAK HR FACTOR : | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.500 | 0.000 | 0.000 | 0.000 | 0.500 |

National Data & Surveying Services **Intersection Turning** Movement Count

Location: Brentwood Blvd & Lone Tree Way
City: Brentwood

Project ID: 22-080017-002
Date: 1/13/2022

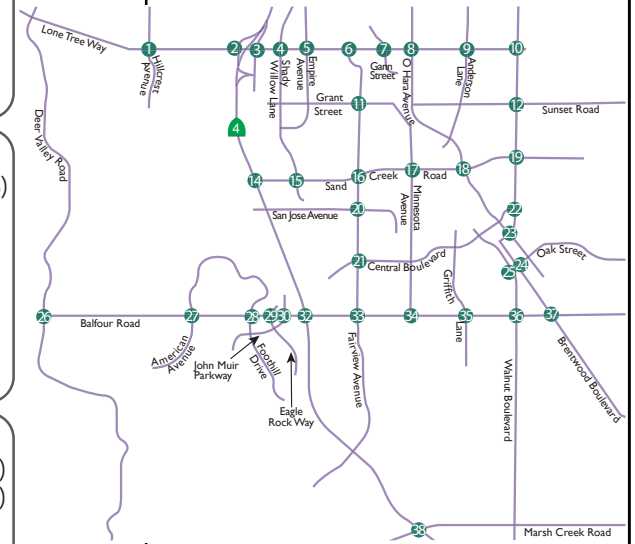
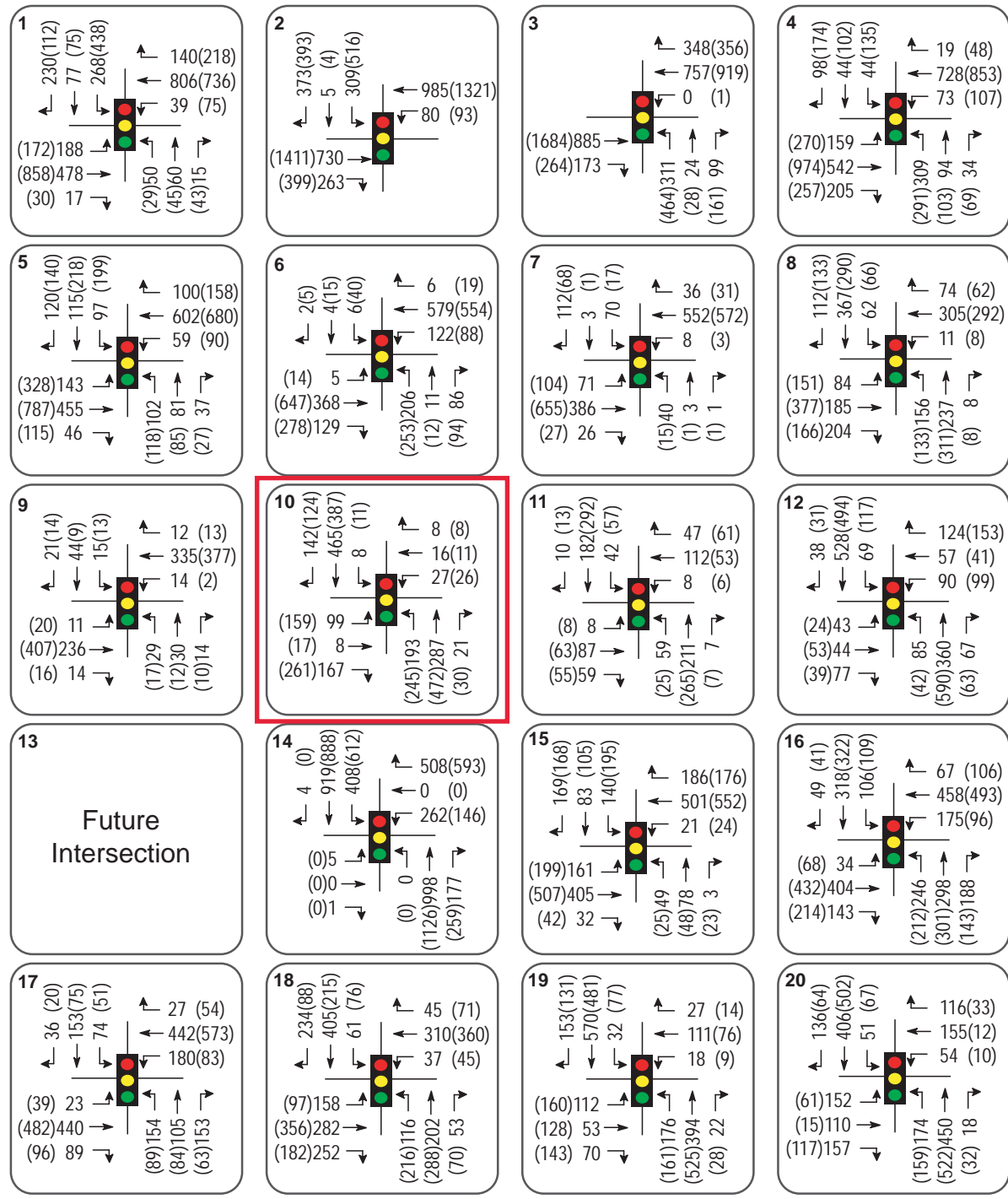
Data - Pedestrians (Crosswalks)

| NS/EW Streets: | Brentwood Blvd | | Brentwood Blvd | | Lone Tree Way | | Lone Tree Way | | |
|-------------------------|---------------------|----|----------------|----|---------------|----|---------------|-------|-------|
| AM | NORTH LEG | | SOUTH LEG | | EAST LEG | | WEST LEG | | TOTAL |
| | EB | WB | EB | WB | NB | SB | NB | SB | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL VOLUMES : | EB | WB | EB | WB | NB | SB | NB | SB | TOTAL |
| APPROACH %'s : | 0 | 0 | 0 | 0 | 0 | 0 | 100.00% | 0.00% | 1 |
| PEAK HR : | 07:45 AM - 08:45 AM | | | | | | | | TOTAL |
| PEAK HR VOL : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| PEAK HR FACTOR : | | | | | | | 0.250 | 0.250 | 0.250 |

| PM | NORTH LEG | | SOUTH LEG | | EAST LEG | | WEST LEG | | TOTAL |
|-------------------------|---------------------|----|-----------|----|----------|----|----------|-------|-------|
| | EB | WB | EB | WB | NB | SB | NB | SB | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:45 PM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| TOTAL VOLUMES : | EB | WB | EB | WB | NB | SB | NB | SB | TOTAL |
| APPROACH %'s : | 0 | 0 | 1 | 0 | 0 | 0 | 100.00% | 0.00% | 2 |
| PEAK HR : | 04:45 PM - 05:45 PM | | | | | | | | TOTAL |
| PEAK HR VOL : | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| PEAK HR FACTOR : | | | | | | | 0.250 | 0.250 | 0.250 |

**Figure 3.13-3A
Existing Traffic Volumes**

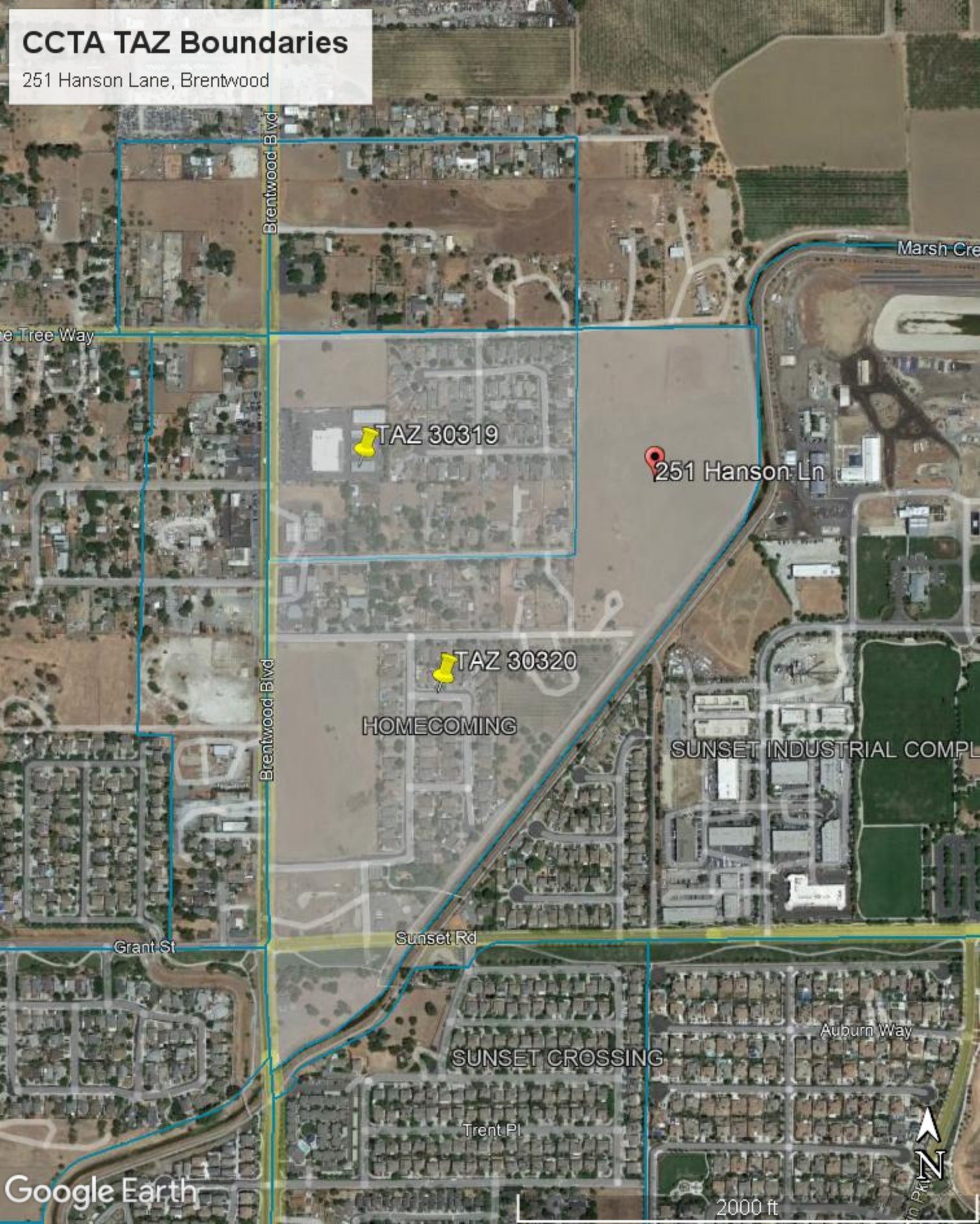
- Study Intersection
- xx A.M. Peak Hour Volume
- (xx) P.M. Peak Hour Volume



**Appendix B – CCTA Transportation Demand Model
Transportation Analysis Zones**

CCTA TAZ Boundaries

251 Hanson Lane, Brentwood



TAZ 30319

251 Hanson Ln

TAZ 30320

HOMECOMING

SUNSET INDUSTRIAL COMPLEX

Grant St

Sunset Rd

SUNSET CROSSING

Auburn Way

Trent Pl



**Appendix C – Existing Conditions Intersections Level of Service
Worksheets**

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.4 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 20 | 0 | 12 | 3 | 523 | 4 | 36 | 557 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 20 | 0 | 12 | 3 | 523 | 4 | 36 | 557 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 195 | - | - | 180 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 73 | 73 | 73 | 89 | 89 | 89 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 27 | 0 | 16 | 3 | 588 | 4 | 46 | 705 | 0 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 1401 | 1395 | 705 | 1393 | 1393 | 590 | 705 | 0 | 0 | 592 | 0 | 0 |
| Stage 1 | 797 | 797 | - | 596 | 596 | - | - | - | - | - | - | - |
| Stage 2 | 604 | 598 | - | 797 | 797 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 118 | 141 | 436 | 119 | 142 | 508 | 893 | - | - | 984 | - | 0 |
| Stage 1 | 380 | 399 | - | 490 | 492 | - | - | - | - | - | - | 0 |
| Stage 2 | 485 | 491 | - | 380 | 399 | - | - | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 110 | 134 | 436 | 114 | 135 | 508 | 893 | - | - | 984 | - | - |
| Mov Cap-2 Maneuver | 110 | 134 | - | 114 | 135 | - | - | - | - | - | - | - |
| Stage 1 | 379 | 380 | - | 489 | 491 | - | - | - | - | - | - | - |
| Stage 2 | 468 | 490 | - | 362 | 380 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|----|--|------|--|-----|--|-----|--|
| HCM Control Delay, s | 0 | | 35.5 | | 0.1 | | 0.5 | |
| HCM LOS | A | | E | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1WBLn1 | SBL | SBT |
|-----------------------|-------|-----|-----|------------|-------|-------|
| Capacity (veh/h) | 893 | - | - | - | 161 | 984 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.272 | 0.046 |
| HCM Control Delay (s) | 9 | - | - | 0 | 35.5 | 8.8 |
| HCM Lane LOS | A | - | - | A | E | A |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 1 | 0.1 |

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: AM Peak
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↗ | | ↕ | ↗ | ↗ | ↑ | ↗ | ↗ | ↕↔ | |
| Traffic Volume (veh/h) | 135 | 2 | 187 | 28 | 11 | 3 | 246 | 270 | 17 | 3 | 353 | 187 |
| Future Volume (veh/h) | 135 | 2 | 187 | 28 | 11 | 3 | 246 | 270 | 17 | 3 | 353 | 187 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 153 | 2 | 212 | 41 | 16 | 4 | 280 | 307 | 19 | 4 | 430 | 228 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.68 | 0.68 | 0.68 | 0.88 | 0.88 | 0.88 | 0.82 | 0.82 | 0.82 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 306 | 4 | 276 | 67 | 26 | 82 | 333 | 911 | 771 | 10 | 687 | 361 |
| Arrive On Green | 0.17 | 0.17 | 0.17 | 0.05 | 0.05 | 0.05 | 0.19 | 0.49 | 0.49 | 0.01 | 0.31 | 0.31 |
| Sat Flow, veh/h | 1759 | 23 | 1585 | 1299 | 507 | 1585 | 1781 | 1870 | 1583 | 1781 | 2250 | 1182 |
| Grp Volume(v), veh/h | 155 | 0 | 212 | 57 | 0 | 4 | 280 | 307 | 19 | 4 | 339 | 319 |
| Grp Sat Flow(s),veh/h/ln | 1782 | 0 | 1585 | 1805 | 0 | 1585 | 1781 | 1870 | 1583 | 1781 | 1777 | 1655 |
| Q Serve(g_s), s | 5.0 | 0.0 | 8.1 | 2.0 | 0.0 | 0.2 | 9.7 | 6.4 | 0.4 | 0.1 | 10.4 | 10.6 |
| Cycle Q Clear(g_c), s | 5.0 | 0.0 | 8.1 | 2.0 | 0.0 | 0.2 | 9.7 | 6.4 | 0.4 | 0.1 | 10.4 | 10.6 |
| Prop In Lane | 0.99 | | 1.00 | 0.72 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.71 |
| Lane Grp Cap(c), veh/h | 310 | 0 | 276 | 93 | 0 | 82 | 333 | 911 | 771 | 10 | 543 | 505 |
| V/C Ratio(X) | 0.50 | 0.00 | 0.77 | 0.61 | 0.00 | 0.05 | 0.84 | 0.34 | 0.02 | 0.42 | 0.62 | 0.63 |
| Avail Cap(c_a), veh/h | 502 | 0 | 447 | 509 | 0 | 447 | 460 | 911 | 771 | 139 | 543 | 505 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.9 | 0.0 | 25.2 | 29.6 | 0.0 | 28.8 | 25.0 | 10.0 | 8.5 | 31.7 | 19.0 | 19.1 |
| Incr Delay (d2), s/veh | 1.2 | 0.0 | 4.5 | 6.3 | 0.0 | 0.2 | 9.6 | 1.0 | 0.1 | 26.6 | 5.3 | 5.9 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.1 | 0.0 | 3.2 | 1.0 | 0.0 | 0.1 | 4.6 | 2.4 | 0.1 | 0.1 | 4.6 | 4.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 25.1 | 0.0 | 29.7 | 35.9 | 0.0 | 29.0 | 34.7 | 11.0 | 8.6 | 58.3 | 24.4 | 25.0 |
| LnGrp LOS | C | A | C | D | A | C | C | B | A | E | C | C |
| Approach Vol, veh/h | | 367 | | | 61 | | | 606 | | | 662 | |
| Approach Delay, s/veh | | 27.7 | | | 35.5 | | | 21.9 | | | 24.9 | |
| Approach LOS | | C | | | D | | | C | | | C | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 4.8 | 35.6 | | 15.6 | 16.5 | 24.0 | | 7.8 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 31.0 | | 18.0 | 16.5 | 19.5 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.1 | 8.4 | | 10.1 | 11.7 | 12.6 | | 4.0 | | | | |
| Green Ext Time (p_c), s | 0.0 | 1.7 | | 1.0 | 0.4 | 2.2 | | 0.2 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 24.8 |
| HCM 6th LOS | C |

Notes

User approved ignoring U-Turning movement.

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.3 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 10 | 0 | 10 | 3 | 726 | 2 | 61 | 656 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 10 | 0 | 10 | 3 | 726 | 2 | 61 | 656 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 195 | - | - | 180 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 56 | 56 | 56 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 18 | 0 | 18 | 3 | 764 | 2 | 64 | 691 | 0 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 1599 | 1591 | 691 | 1590 | 1590 | 765 | 691 | 0 | 0 | 766 | 0 | 0 |
| Stage 1 | 819 | 819 | - | 771 | 771 | - | - | - | - | - | - | - |
| Stage 2 | 780 | 772 | - | 819 | 819 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 86 | 107 | 445 | 87 | 108 | 403 | 904 | - | - | 847 | - | 0 |
| Stage 1 | 369 | 389 | - | 393 | 410 | - | - | - | - | - | - | 0 |
| Stage 2 | 388 | 409 | - | 369 | 389 | - | - | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 77 | 99 | 445 | 82 | 99 | 403 | 904 | - | - | 847 | - | - |
| Mov Cap-2 Maneuver | 77 | 99 | - | 82 | 99 | - | - | - | - | - | - | - |
| Stage 1 | 368 | 359 | - | 392 | 409 | - | - | - | - | - | - | - |
| Stage 2 | 370 | 408 | - | 341 | 359 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|----------------------|----|------|----|-----|
| HCM Control Delay, s | 0 | 40.6 | 0 | 0.8 |
| HCM LOS | A | E | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1WBLn1 | SBL | SBT |
|-----------------------|-------|-----|-----|------------|-------|-------|
| Capacity (veh/h) | 904 | - | - | - | 136 | 847 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.263 | 0.076 |
| HCM Control Delay (s) | 9 | - | - | 0 | 40.6 | 9.6 |
| HCM Lane LOS | A | - | - | A | E | A |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 1 | 0.2 |

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: PM Peak
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↖ | ↗ | | ↖ | ↗ | ↖ | ↑ | ↗ | ↖ | ↕ | ↗ |
| Traffic Volume (veh/h) | 183 | 23 | 237 | 17 | 12 | 6 | 249 | 457 | 22 | 9 | 448 | 149 |
| Future Volume (veh/h) | 183 | 23 | 237 | 17 | 12 | 6 | 249 | 457 | 22 | 9 | 448 | 149 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 220 | 28 | 286 | 21 | 15 | 8 | 268 | 491 | 24 | 10 | 498 | 166 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.80 | 0.80 | 0.80 | 0.93 | 0.93 | 0.93 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 346 | 44 | 345 | 44 | 32 | 66 | 319 | 862 | 729 | 23 | 772 | 256 |
| Arrive On Green | 0.22 | 0.22 | 0.22 | 0.04 | 0.04 | 0.04 | 0.18 | 0.46 | 0.46 | 0.01 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1589 | 202 | 1585 | 1060 | 757 | 1585 | 1781 | 1870 | 1583 | 1781 | 2621 | 868 |
| Grp Volume(v), veh/h | 248 | 0 | 286 | 36 | 0 | 8 | 268 | 491 | 24 | 10 | 337 | 327 |
| Grp Sat Flow(s),veh/h/ln | 1791 | 0 | 1585 | 1817 | 0 | 1585 | 1781 | 1870 | 1583 | 1781 | 1777 | 1712 |
| Q Serve(g_s), s | 8.5 | 0.0 | 11.6 | 1.3 | 0.0 | 0.3 | 9.8 | 12.9 | 0.6 | 0.4 | 11.1 | 11.2 |
| Cycle Q Clear(g_c), s | 8.5 | 0.0 | 11.6 | 1.3 | 0.0 | 0.3 | 9.8 | 12.9 | 0.6 | 0.4 | 11.1 | 11.2 |
| Prop In Lane | 0.89 | | 1.00 | 0.58 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.51 |
| Lane Grp Cap(c), veh/h | 389 | 0 | 345 | 76 | 0 | 66 | 319 | 862 | 729 | 23 | 523 | 504 |
| V/C Ratio(X) | 0.64 | 0.00 | 0.83 | 0.48 | 0.00 | 0.12 | 0.84 | 0.57 | 0.03 | 0.44 | 0.64 | 0.65 |
| Avail Cap(c_a), veh/h | 479 | 0 | 424 | 486 | 0 | 424 | 437 | 862 | 729 | 132 | 523 | 504 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 23.9 | 0.0 | 25.1 | 31.5 | 0.0 | 31.1 | 26.7 | 13.3 | 9.9 | 33.0 | 20.7 | 20.7 |
| Incr Delay (d2), s/veh | 2.0 | 0.0 | 10.9 | 4.6 | 0.0 | 0.8 | 10.3 | 2.7 | 0.1 | 13.0 | 6.0 | 6.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.5 | 0.0 | 5.1 | 0.6 | 0.0 | 0.1 | 4.7 | 5.1 | 0.2 | 0.2 | 5.0 | 4.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 25.9 | 0.0 | 36.0 | 36.1 | 0.0 | 31.9 | 37.0 | 16.0 | 10.0 | 46.0 | 26.6 | 27.0 |
| LnGrp LOS | C | A | D | D | A | C | D | B | B | D | C | C |
| Approach Vol, veh/h | | 534 | | | 44 | | | 783 | | | 674 | |
| Approach Delay, s/veh | | 31.3 | | | 35.3 | | | 23.0 | | | 27.1 | |
| Approach LOS | | C | | | D | | | C | | | C | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.4 | 35.5 | | 19.1 | 16.5 | 24.3 | | 7.3 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 31.0 | | 18.0 | 16.5 | 19.5 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.4 | 14.9 | | 13.6 | 11.8 | 13.2 | | 3.3 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.7 | | 1.0 | 0.3 | 2.0 | | 0.1 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 26.8 |
| HCM 6th LOS | C |

Notes

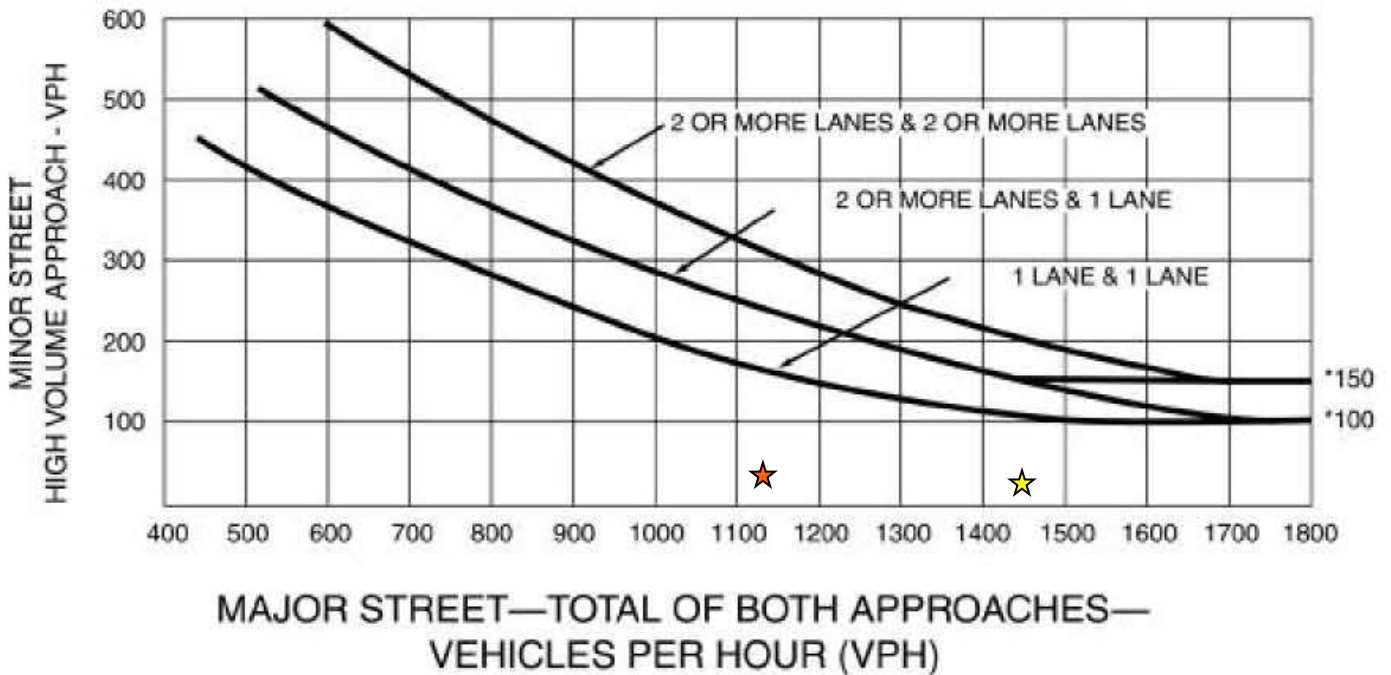
User approved ignoring U-Turning movement.

Peak Hour Warrant (Urban Areas)

Intersection: #1 Brentwood Blvd. & Hanson Ln., Brentwood, CA
Scenario: Existing Conditions

Figure 4C-3. Warrant 3, Peak Hour

Minor Street Volume = 32 (20) VPH



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Major Street Volume = 1123 (1448) VPH

★ *AM Peak Hour*

★ *PM Peak Hour*

A signal is NOT WARRANTED in the a.m. Peak Hour
A signal is NOT WARRANTED in the p.m. Peak Hour

Queues

Timing Plan: AM Peak

2: Brentwood Blvd & Lone Tree Way

02/03/2022



| Lane Group | EBT | EBR | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
|-------------------------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 155 | 213 | 57 | 4 | 280 | 307 | 19 | 4 | 658 |
| v/c Ratio | 0.51 | 0.48 | 0.28 | 0.01 | 0.71 | 0.29 | 0.02 | 0.03 | 0.62 |
| Control Delay | 34.0 | 8.4 | 34.5 | 0.0 | 38.9 | 12.4 | 0.1 | 35.7 | 22.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 34.0 | 8.4 | 34.5 | 0.0 | 38.9 | 12.4 | 0.1 | 35.7 | 22.9 |
| Queue Length 50th (ft) | 66 | 0 | 24 | 0 | 117 | 68 | 0 | 2 | 118 |
| Queue Length 95th (ft) | 121 | 50 | 46 | 0 | #251 | 180 | 0 | 11 | 178 |
| Internal Link Dist (ft) | 1276 | | 1280 | | | 468 | | | 138 |
| Turn Bay Length (ft) | | 210 | | 50 | 300 | | 105 | 70 | |
| Base Capacity (vph) | 486 | 588 | 493 | 566 | 445 | 1052 | 949 | 134 | 1058 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.32 | 0.36 | 0.12 | 0.01 | 0.63 | 0.29 | 0.02 | 0.03 | 0.62 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Queues

Timing Plan: PM Peak

2: Brentwood Blvd & Lone Tree Way

02/03/2022



| Lane Group | EBT | EBR | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
|-------------------------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 248 | 286 | 36 | 8 | 268 | 491 | 24 | 10 | 664 |
| v/c Ratio | 0.66 | 0.51 | 0.20 | 0.02 | 0.72 | 0.49 | 0.03 | 0.08 | 0.66 |
| Control Delay | 36.5 | 7.3 | 35.3 | 0.2 | 40.3 | 15.6 | 0.0 | 37.0 | 26.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 36.5 | 7.3 | 35.3 | 0.2 | 40.3 | 15.6 | 0.0 | 37.0 | 26.8 |
| Queue Length 50th (ft) | 110 | 0 | 17 | 0 | 122 | 146 | 0 | 5 | 146 |
| Queue Length 95th (ft) | 172 | 45 | 39 | 0 | #238 | 314 | 0 | 21 | #217 |
| Internal Link Dist (ft) | 1276 | | 1280 | | | 468 | | | 138 |
| Turn Bay Length (ft) | | 210 | | 50 | 300 | | 105 | 70 | |
| Base Capacity (vph) | 472 | 629 | 479 | 553 | 429 | 1008 | 915 | 130 | 1004 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.53 | 0.45 | 0.08 | 0.01 | 0.62 | 0.49 | 0.03 | 0.08 | 0.66 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

**Appendix D – Existing plus Project Conditions Intersections
Level of Service Worksheets**

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 30 | 0 | 12 | 3 | 523 | 7 | 36 | 557 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 30 | 0 | 12 | 3 | 523 | 7 | 36 | 557 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 195 | - | - | 180 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 73 | 73 | 73 | 89 | 89 | 89 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 41 | 0 | 16 | 3 | 588 | 8 | 46 | 705 | 0 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 1403 | 1399 | 705 | 1395 | 1395 | 592 | 705 | 0 | 0 | 596 | 0 | 0 |
| Stage 1 | 797 | 797 | - | 598 | 598 | - | - | - | - | - | - | - |
| Stage 2 | 606 | 602 | - | 797 | 797 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 117 | 141 | 436 | 119 | 141 | 506 | 893 | - | - | 980 | - | 0 |
| Stage 1 | 380 | 399 | - | 489 | 491 | - | - | - | - | - | - | 0 |
| Stage 2 | 484 | 489 | - | 380 | 399 | - | - | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 109 | 134 | 436 | 114 | 134 | 506 | 893 | - | - | 980 | - | - |
| Mov Cap-2 Maneuver | 109 | 134 | - | 114 | 134 | - | - | - | - | - | - | - |
| Stage 1 | 379 | 380 | - | 488 | 490 | - | - | - | - | - | - | - |
| Stage 2 | 467 | 488 | - | 362 | 380 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|----|--|------|--|-----|--|-----|--|
| HCM Control Delay, s | 0 | | 44.8 | | 0.1 | | 0.5 | |
| HCM LOS | A | | E | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1WBLn1 | SBL | SBT |
|-----------------------|-------|-----|-----|------------|-------|-------|
| Capacity (veh/h) | 893 | - | - | - | 146 | 980 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.394 | 0.046 |
| HCM Control Delay (s) | 9 | - | - | 0 | 44.8 | 8.9 |
| HCM Lane LOS | A | - | - | A | E | A |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 1.7 | 0.1 |

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: AM Peak
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↗ | | ↕ | ↗ | ↗ | ↑ | ↗ | ↗ | ↕↔ | |
| Traffic Volume (veh/h) | 135 | 12 | 187 | 28 | 39 | 12 | 246 | 270 | 17 | 6 | 353 | 187 |
| Future Volume (veh/h) | 135 | 12 | 187 | 28 | 39 | 12 | 246 | 270 | 17 | 6 | 353 | 187 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 153 | 14 | 212 | 41 | 57 | 18 | 280 | 307 | 19 | 7 | 430 | 228 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.68 | 0.68 | 0.68 | 0.88 | 0.88 | 0.88 | 0.82 | 0.82 | 0.82 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 283 | 26 | 274 | 59 | 82 | 122 | 331 | 879 | 744 | 16 | 660 | 347 |
| Arrive On Green | 0.17 | 0.17 | 0.17 | 0.08 | 0.08 | 0.08 | 0.19 | 0.47 | 0.47 | 0.01 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1639 | 150 | 1585 | 766 | 1066 | 1585 | 1781 | 1870 | 1583 | 1781 | 2250 | 1182 |
| Grp Volume(v), veh/h | 167 | 0 | 212 | 98 | 0 | 18 | 280 | 307 | 19 | 7 | 339 | 319 |
| Grp Sat Flow(s),veh/h/ln | 1788 | 0 | 1585 | 1832 | 0 | 1585 | 1781 | 1870 | 1583 | 1781 | 1777 | 1655 |
| Q Serve(g_s), s | 5.7 | 0.0 | 8.5 | 3.5 | 0.0 | 0.7 | 10.1 | 6.9 | 0.4 | 0.3 | 11.1 | 11.2 |
| Cycle Q Clear(g_c), s | 5.7 | 0.0 | 8.5 | 3.5 | 0.0 | 0.7 | 10.1 | 6.9 | 0.4 | 0.3 | 11.1 | 11.2 |
| Prop In Lane | 0.92 | | 1.00 | 0.42 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.71 |
| Lane Grp Cap(c), veh/h | 309 | 0 | 274 | 142 | 0 | 122 | 331 | 879 | 744 | 16 | 521 | 486 |
| V/C Ratio(X) | 0.54 | 0.00 | 0.77 | 0.69 | 0.00 | 0.15 | 0.85 | 0.35 | 0.03 | 0.43 | 0.65 | 0.66 |
| Avail Cap(c_a), veh/h | 484 | 0 | 429 | 496 | 0 | 429 | 442 | 879 | 744 | 134 | 521 | 486 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.1 | 0.0 | 26.3 | 29.9 | 0.0 | 28.6 | 26.1 | 11.2 | 9.4 | 32.8 | 20.5 | 20.6 |
| Incr Delay (d2), s/veh | 1.5 | 0.0 | 4.7 | 5.9 | 0.0 | 0.5 | 10.9 | 1.1 | 0.1 | 17.0 | 6.2 | 6.8 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 2.4 | 0.0 | 3.3 | 1.7 | 0.0 | 0.3 | 4.9 | 2.6 | 0.1 | 0.2 | 5.0 | 4.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 26.6 | 0.0 | 30.9 | 35.8 | 0.0 | 29.2 | 37.1 | 12.3 | 9.5 | 49.8 | 26.7 | 27.4 |
| LnGrp LOS | C | A | C | D | A | C | D | B | A | D | C | C |
| Approach Vol, veh/h | | 379 | | | 116 | | | 606 | | | 665 | |
| Approach Delay, s/veh | | 29.0 | | | 34.8 | | | 23.6 | | | 27.2 | |
| Approach LOS | | C | | | C | | | C | | | C | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.1 | 35.7 | | 16.0 | 16.9 | 24.0 | | 9.6 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 31.0 | | 18.0 | 16.5 | 19.5 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.3 | 8.9 | | 10.5 | 12.1 | 13.2 | | 5.5 | | | | |
| Green Ext Time (p_c), s | 0.0 | 1.7 | | 1.0 | 0.3 | 2.0 | | 0.4 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 26.9 |
| HCM 6th LOS | C |

Notes

User approved ignoring U-Turning movement.

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 16 | 0 | 10 | 3 | 726 | 13 | 61 | 656 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 16 | 0 | 10 | 3 | 726 | 13 | 61 | 656 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 195 | - | - | 180 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 56 | 56 | 56 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 29 | 0 | 18 | 3 | 764 | 14 | 64 | 691 | 0 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 1605 | 1603 | 691 | 1596 | 1596 | 771 | 691 | 0 | 0 | 778 | 0 | 0 |
| Stage 1 | 819 | 819 | - | 777 | 777 | - | - | - | - | - | - | - |
| Stage 2 | 786 | 784 | - | 819 | 819 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 85 | 106 | 445 | 86 | 107 | 400 | 904 | - | - | 839 | - | 0 |
| Stage 1 | 369 | 389 | - | 390 | 407 | - | - | - | - | - | - | 0 |
| Stage 2 | 385 | 404 | - | 369 | 389 | - | - | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 76 | 98 | 445 | 81 | 99 | 400 | 904 | - | - | 839 | - | - |
| Mov Cap-2 Maneuver | 76 | 98 | - | 81 | 99 | - | - | - | - | - | - | - |
| Stage 1 | 368 | 359 | - | 389 | 406 | - | - | - | - | - | - | - |
| Stage 2 | 367 | 403 | - | 341 | 359 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|----|--|------|--|----|--|-----|--|
| HCM Control Delay, s | 0 | | 54.7 | | 0 | | 0.8 | |
| HCM LOS | A | | F | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1WBLn1 | SBL | SBT |
|-----------------------|-------|-----|-----|------------|-------|-------|
| Capacity (veh/h) | 904 | - | - | - | 117 | 839 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.397 | 0.077 |
| HCM Control Delay (s) | 9 | - | - | 0 | 54.7 | 9.6 |
| HCM Lane LOS | A | - | - | A | F | A |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 1.7 | 0.2 |

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: PM Peak
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↗ | | ↕ | ↗ | ↗ | ↑ | ↗ | ↗ | ↕↔ | |
| Traffic Volume (veh/h) | 183 | 55 | 237 | 17 | 31 | 12 | 249 | 457 | 22 | 20 | 448 | 149 |
| Future Volume (veh/h) | 183 | 55 | 237 | 17 | 31 | 12 | 249 | 457 | 22 | 20 | 448 | 149 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 220 | 66 | 286 | 21 | 39 | 15 | 268 | 491 | 24 | 22 | 498 | 166 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.80 | 0.80 | 0.80 | 0.93 | 0.93 | 0.93 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 300 | 90 | 343 | 35 | 66 | 87 | 317 | 833 | 705 | 44 | 766 | 254 |
| Arrive On Green | 0.22 | 0.22 | 0.22 | 0.05 | 0.05 | 0.05 | 0.18 | 0.45 | 0.45 | 0.02 | 0.29 | 0.29 |
| Sat Flow, veh/h | 1385 | 416 | 1585 | 643 | 1195 | 1585 | 1781 | 1870 | 1583 | 1781 | 2621 | 868 |
| Grp Volume(v), veh/h | 286 | 0 | 286 | 60 | 0 | 15 | 268 | 491 | 24 | 22 | 337 | 327 |
| Grp Sat Flow(s),veh/h/ln | 1801 | 0 | 1585 | 1838 | 0 | 1585 | 1781 | 1870 | 1583 | 1781 | 1777 | 1712 |
| Q Serve(g_s), s | 10.3 | 0.0 | 12.0 | 2.2 | 0.0 | 0.6 | 10.1 | 13.8 | 0.6 | 0.8 | 11.5 | 11.6 |
| Cycle Q Clear(g_c), s | 10.3 | 0.0 | 12.0 | 2.2 | 0.0 | 0.6 | 10.1 | 13.8 | 0.6 | 0.8 | 11.5 | 11.6 |
| Prop In Lane | 0.77 | | 1.00 | 0.35 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.51 |
| Lane Grp Cap(c), veh/h | 390 | 0 | 343 | 101 | 0 | 87 | 317 | 833 | 705 | 44 | 519 | 501 |
| V/C Ratio(X) | 0.73 | 0.00 | 0.83 | 0.59 | 0.00 | 0.17 | 0.85 | 0.59 | 0.03 | 0.50 | 0.65 | 0.65 |
| Avail Cap(c_a), veh/h | 466 | 0 | 410 | 475 | 0 | 410 | 422 | 833 | 705 | 128 | 519 | 501 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 25.4 | 0.0 | 26.1 | 32.1 | 0.0 | 31.4 | 27.7 | 14.5 | 10.9 | 33.5 | 21.5 | 21.6 |
| Incr Delay (d2), s/veh | 4.8 | 0.0 | 11.9 | 5.5 | 0.0 | 0.9 | 11.5 | 3.1 | 0.1 | 8.3 | 6.2 | 6.5 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.6 | 0.0 | 5.3 | 1.1 | 0.0 | 0.3 | 5.0 | 5.6 | 0.2 | 0.4 | 5.2 | 5.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 30.2 | 0.0 | 38.0 | 37.6 | 0.0 | 32.3 | 39.2 | 17.6 | 11.0 | 41.9 | 27.7 | 28.1 |
| LnGrp LOS | C | A | D | D | A | C | D | B | B | D | C | C |
| Approach Vol, veh/h | | 572 | | | 75 | | | 783 | | | 686 | |
| Approach Delay, s/veh | | 34.1 | | | 36.5 | | | 24.8 | | | 28.3 | |
| Approach LOS | | C | | | D | | | C | | | C | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.2 | 35.5 | | 19.6 | 16.9 | 24.9 | | 8.3 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 31.0 | | 18.0 | 16.5 | 19.5 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.8 | 15.8 | | 14.0 | 12.1 | 13.6 | | 4.2 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.6 | | 1.1 | 0.3 | 1.9 | | 0.2 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 28.9 |
| HCM 6th LOS | C |

Notes

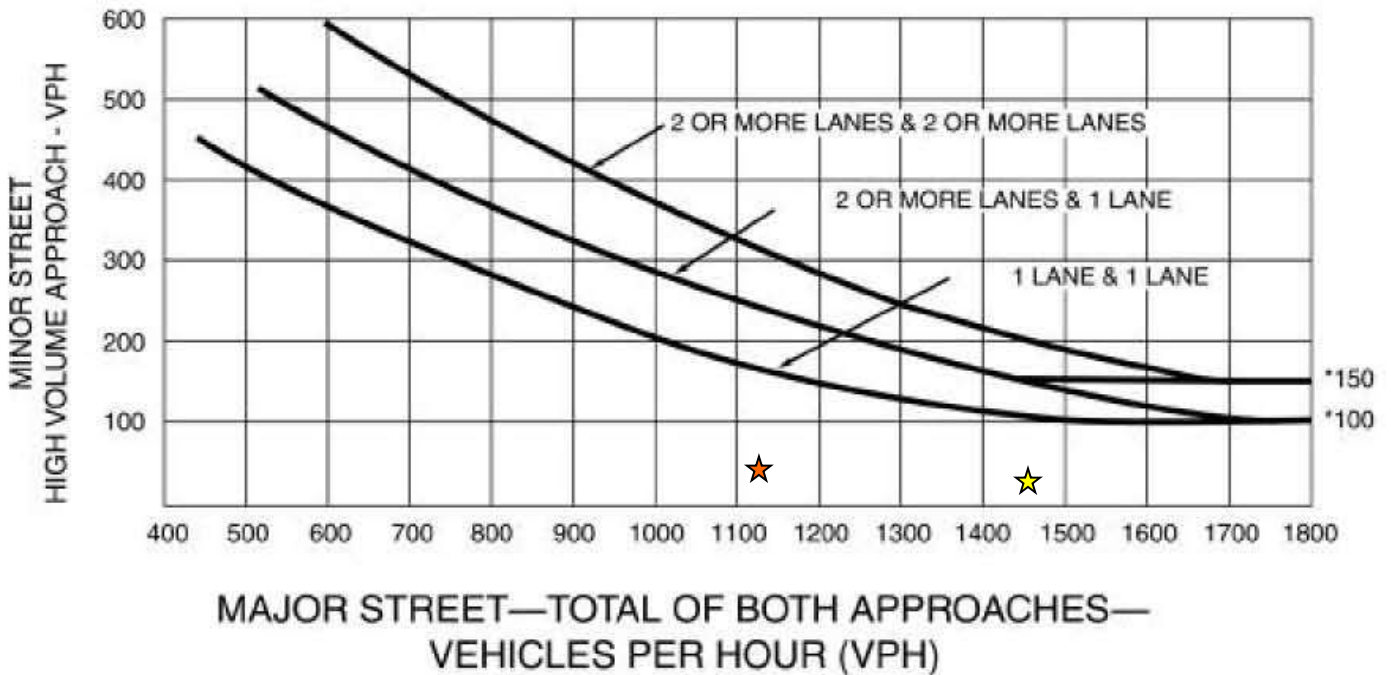
User approved ignoring U-Turning movement.

Peak Hour Warrant (Urban Areas)

Intersection: #1 Brentwood Blvd. & Hanson Ln., Brentwood, CA
Scenario: Existing plus Project Conditions

Figure 4C-3. Warrant 3, Peak Hour

Minor Street Volume = 42 (26) VPH



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Major Street Volume = 1126 (1459) VPH

★ *AM Peak Hour*

★ *PM Peak Hour*

A signal is NOT WARRANTED in the a.m. Peak Hour
A signal is NOT WARRANTED in the p.m. Peak Hour

Queues

Timing Plan: AM Peak

2: Brentwood Blvd & Lone Tree Way

02/03/2022



| Lane Group | EBT | EBR | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
|-------------------------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 167 | 213 | 98 | 18 | 280 | 307 | 19 | 7 | 658 |
| v/c Ratio | 0.56 | 0.48 | 0.42 | 0.05 | 0.75 | 0.31 | 0.02 | 0.06 | 0.66 |
| Control Delay | 37.2 | 8.6 | 37.2 | 0.2 | 43.5 | 14.3 | 0.1 | 37.7 | 25.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 37.2 | 8.6 | 37.2 | 0.2 | 43.5 | 14.3 | 0.1 | 37.7 | 25.9 |
| Queue Length 50th (ft) | 73 | 0 | 43 | 0 | 123 | 75 | 0 | 3 | 125 |
| Queue Length 95th (ft) | 135 | 52 | 69 | 0 | #264 | 191 | 0 | 15 | 186 |
| Internal Link Dist (ft) | 1276 | | 1280 | | | 468 | | | 138 |
| Turn Bay Length (ft) | | 210 | | 50 | 300 | | 105 | 70 | |
| Base Capacity (vph) | 454 | 562 | 465 | 539 | 414 | 987 | 898 | 125 | 992 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.37 | 0.38 | 0.21 | 0.03 | 0.68 | 0.31 | 0.02 | 0.06 | 0.66 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Queues
2: Brentwood Blvd & Lone Tree Way

Timing Plan: PM Peak
02/03/2022



| Lane Group | EBT | EBR | WBT | WBR | NBL | NBT | NBR | SBL | SBT |
|-------------------------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 286 | 286 | 60 | 15 | 268 | 491 | 24 | 22 | 664 |
| v/c Ratio | 0.75 | 0.51 | 0.31 | 0.05 | 0.75 | 0.54 | 0.03 | 0.18 | 0.71 |
| Control Delay | 42.5 | 7.3 | 37.4 | 0.2 | 44.3 | 19.8 | 0.0 | 40.1 | 30.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 42.5 | 7.3 | 37.4 | 0.2 | 44.3 | 19.8 | 0.0 | 40.1 | 30.1 |
| Queue Length 50th (ft) | 132 | 0 | 28 | 0 | 126 | 155 | 0 | 11 | 152 |
| Queue Length 95th (ft) | 203 | 45 | 56 | 0 | #246 | 324 | 0 | 34 | #230 |
| Internal Link Dist (ft) | 1276 | | 1280 | | | 468 | | | 138 |
| Turn Bay Length (ft) | | 210 | | 50 | 300 | | 105 | 70 | |
| Base Capacity (vph) | 442 | 605 | 451 | 527 | 399 | 904 | 833 | 121 | 938 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.65 | 0.47 | 0.13 | 0.03 | 0.67 | 0.54 | 0.03 | 0.18 | 0.71 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

**Appendix E – Cumulative Conditions Intersections Level of Service
Worksheets**

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 9.6 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 30 | 0 | 18 | 4 | 771 | 6 | 53 | 822 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 30 | 0 | 18 | 4 | 771 | 6 | 53 | 822 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 195 | - | - | 180 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 73 | 73 | 73 | 89 | 89 | 89 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 41 | 0 | 25 | 4 | 866 | 7 | 67 | 1041 | 0 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 2065 | 2056 | 1041 | 2053 | 2053 | 870 | 1041 | 0 | 0 | 873 | 0 | 0 |
| Stage 1 | 1175 | 1175 | - | 878 | 878 | - | - | - | - | - | - | - |
| Stage 2 | 890 | 881 | - | 1175 | 1175 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 40 | 55 | 279 | ~ 41 | 55 | 351 | 668 | - | - | 773 | - | 0 |
| Stage 1 | 233 | 265 | - | 343 | 366 | - | - | - | - | - | - | 0 |
| Stage 2 | 337 | 365 | - | 233 | 265 | - | - | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | - | - | - | | |
| Mov Cap-1 Maneuver | 35 | 50 | 279 | ~ 38 | 50 | 351 | 668 | - | - | 773 | - | - |
| Mov Cap-2 Maneuver | 35 | 50 | - | ~ 38 | 50 | - | - | - | - | - | - | - |
| Stage 1 | 232 | 242 | - | 341 | 364 | - | - | - | - | - | - | - |
| Stage 2 | 311 | 363 | - | 213 | 242 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|----|--|-----|--|-----|--|-----|--|
| HCM Control Delay, s | 0 | | 287 | | 0.1 | | 0.6 | |
| HCM LOS | A | | F | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1WBLn1 | SBL | SBT |
|-----------------------|-------|-----|-----|------------|-------|-------|
| Capacity (veh/h) | 668 | - | - | - | 57 | 773 |
| HCM Lane V/C Ratio | 0.007 | - | - | - | 1.154 | 0.087 |
| HCM Control Delay (s) | 10.4 | - | - | 0 | 287 | 10.1 |
| HCM Lane LOS | B | - | - | A | F | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 5.5 | 0.3 |

Notes
 -: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: AM Peak
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Lane Configurations | | ↔ | ↔ | | ↔ | ↔ | ↔ | ↑ | ↔ | ↔ | ↔ | ↔ |
| Traffic Volume (veh/h) | 199 | 3 | 276 | 41 | 16 | 4 | 363 | 398 | 25 | 4 | 521 | 276 |
| Future Volume (veh/h) | 199 | 3 | 276 | 41 | 16 | 4 | 363 | 398 | 25 | 4 | 521 | 276 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 226 | 3 | 314 | 60 | 24 | 6 | 412 | 452 | 28 | 5 | 635 | 337 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.68 | 0.68 | 0.68 | 0.88 | 0.88 | 0.88 | 0.82 | 0.82 | 0.82 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 393 | 5 | 354 | 83 | 33 | 102 | 388 | 876 | 741 | 12 | 576 | 306 |
| Arrive On Green | 0.22 | 0.22 | 0.22 | 0.06 | 0.06 | 0.06 | 0.22 | 0.47 | 0.47 | 0.01 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1759 | 23 | 1585 | 1290 | 516 | 1585 | 1781 | 1870 | 1583 | 1781 | 2241 | 1189 |
| Grp Volume(v), veh/h | 229 | 0 | 314 | 84 | 0 | 6 | 412 | 452 | 28 | 5 | 503 | 469 |
| Grp Sat Flow(s),veh/h/ln | 1782 | 0 | 1585 | 1806 | 0 | 1585 | 1781 | 1870 | 1583 | 1781 | 1777 | 1654 |
| Q Serve(g_s), s | 8.7 | 0.0 | 14.5 | 3.5 | 0.0 | 0.3 | 16.5 | 12.8 | 0.7 | 0.2 | 19.5 | 19.5 |
| Cycle Q Clear(g_c), s | 8.7 | 0.0 | 14.5 | 3.5 | 0.0 | 0.3 | 16.5 | 12.8 | 0.7 | 0.2 | 19.5 | 19.5 |
| Prop In Lane | 0.99 | | 1.00 | 0.71 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.72 |
| Lane Grp Cap(c), veh/h | 398 | 0 | 354 | 116 | 0 | 102 | 388 | 876 | 741 | 12 | 457 | 425 |
| V/C Ratio(X) | 0.57 | 0.00 | 0.89 | 0.73 | 0.00 | 0.06 | 1.06 | 0.52 | 0.04 | 0.43 | 1.10 | 1.10 |
| Avail Cap(c_a), veh/h | 423 | 0 | 376 | 429 | 0 | 376 | 388 | 876 | 741 | 117 | 457 | 425 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 26.2 | 0.0 | 28.5 | 34.8 | 0.0 | 33.3 | 29.7 | 14.1 | 10.9 | 37.5 | 28.2 | 28.2 |
| Incr Delay (d2), s/veh | 1.7 | 0.0 | 20.8 | 8.3 | 0.0 | 0.2 | 63.3 | 2.2 | 0.1 | 22.6 | 72.6 | 74.0 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.7 | 0.0 | 7.2 | 1.7 | 0.0 | 0.1 | 13.3 | 5.2 | 0.2 | 0.2 | 16.8 | 15.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 27.9 | 0.0 | 49.3 | 43.1 | 0.0 | 33.6 | 92.9 | 16.3 | 11.0 | 60.1 | 100.8 | 102.2 |
| LnGrp LOS | C | A | D | D | A | C | F | B | B | E | F | F |
| Approach Vol, veh/h | | 543 | | | 90 | | | 892 | | | 977 | |
| Approach Delay, s/veh | | 40.3 | | | 42.5 | | | 51.5 | | | 101.2 | |
| Approach LOS | | D | | | D | | | D | | | F | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.0 | 40.0 | | 21.4 | 21.0 | 24.0 | | 9.4 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 31.0 | | 18.0 | 16.5 | 19.5 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.2 | 14.8 | | 16.5 | 18.5 | 21.5 | | 5.5 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.4 | | 0.4 | 0.0 | 0.0 | | 0.3 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 68.2 |
| HCM 6th LOS | E |

Notes

User approved ignoring U-Turning movement.

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 10.2 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 15 | 0 | 15 | 4 | 1071 | 3 | 90 | 968 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 15 | 0 | 15 | 4 | 1071 | 3 | 90 | 968 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 195 | - | - | 180 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 56 | 56 | 56 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 27 | 0 | 27 | 4 | 1127 | 3 | 95 | 1019 | 0 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | | Major2 | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 2359 | 2347 | 1019 | 2346 | 2346 | 1129 | 1019 | 0 | 0 | 1130 | 0 | 0 |
| Stage 1 | 1209 | 1209 | - | 1137 | 1137 | - | - | - | - | - | - | - |
| Stage 2 | 1150 | 1138 | - | 1209 | 1209 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 25 | 36 | 288 | ~ 25 | 36 | 248 | 681 | - | - | 618 | - | 0 |
| Stage 1 | 223 | 256 | - | 245 | 277 | - | - | - | - | - | - | 0 |
| Stage 2 | 241 | 276 | - | 223 | 256 | - | - | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 20 | 30 | 288 | ~ 22 | 30 | 248 | 681 | - | - | 618 | - | - |
| Mov Cap-2 Maneuver | 20 | 30 | - | ~ 22 | 30 | - | - | - | - | - | - | - |
| Stage 1 | 222 | 217 | - | 244 | 275 | - | - | - | - | - | - | - |
| Stage 2 | 214 | 274 | - | 189 | 217 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|----------------------|----|----------|----|----|
| HCM Control Delay, s | 0 | \$ 416.4 | 0 | 1 |
| HCM LOS | A | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1WBLn1 | SBL | SBT |
|-----------------------|-------|-----|-----|------------|-------|-------|
| Capacity (veh/h) | 681 | - | - | - | 40 | 618 |
| HCM Lane V/C Ratio | 0.006 | - | - | - | 1.339 | 0.153 |
| HCM Control Delay (s) | 10.3 | - | - | \$ 416.4 | 11.9 | - |
| HCM Lane LOS | B | - | - | A | F | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 5.4 | 0.5 |

Notes
 -: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: PM Peak
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|-------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↖ | ↗ | | ↖ | ↗ | ↖ | ↑ | ↗ | ↖ | ↕ | ↗ |
| Traffic Volume (veh/h) | 270 | 34 | 350 | 25 | 18 | 9 | 367 | 674 | 32 | 13 | 661 | 220 |
| Future Volume (veh/h) | 270 | 34 | 350 | 25 | 18 | 9 | 367 | 674 | 32 | 13 | 661 | 220 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 325 | 41 | 422 | 31 | 22 | 11 | 395 | 725 | 34 | 14 | 734 | 244 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.80 | 0.80 | 0.80 | 0.93 | 0.93 | 0.93 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 378 | 48 | 377 | 52 | 37 | 77 | 388 | 858 | 726 | 30 | 674 | 224 |
| Arrive On Green | 0.24 | 0.24 | 0.24 | 0.05 | 0.05 | 0.05 | 0.22 | 0.46 | 0.46 | 0.02 | 0.26 | 0.26 |
| Sat Flow, veh/h | 1590 | 201 | 1585 | 1063 | 754 | 1585 | 1781 | 1870 | 1583 | 1781 | 2618 | 870 |
| Grp Volume(v), veh/h | 366 | 0 | 422 | 53 | 0 | 11 | 395 | 725 | 34 | 14 | 498 | 480 |
| Grp Sat Flow(s),veh/h/ln | 1791 | 0 | 1585 | 1817 | 0 | 1585 | 1781 | 1870 | 1583 | 1781 | 1777 | 1712 |
| Q Serve(g_s), s | 14.8 | 0.0 | 18.0 | 2.2 | 0.0 | 0.5 | 16.5 | 25.9 | 0.9 | 0.6 | 19.5 | 19.5 |
| Cycle Q Clear(g_c), s | 14.8 | 0.0 | 18.0 | 2.2 | 0.0 | 0.5 | 16.5 | 25.9 | 0.9 | 0.6 | 19.5 | 19.5 |
| Prop In Lane | 0.89 | | 1.00 | 0.58 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.51 |
| Lane Grp Cap(c), veh/h | 426 | 0 | 377 | 89 | 0 | 77 | 388 | 858 | 726 | 30 | 458 | 441 |
| V/C Ratio(X) | 0.86 | 0.00 | 1.12 | 0.60 | 0.00 | 0.14 | 1.02 | 0.85 | 0.05 | 0.47 | 1.09 | 1.09 |
| Avail Cap(c_a), veh/h | 426 | 0 | 377 | 432 | 0 | 377 | 388 | 858 | 726 | 118 | 458 | 441 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 27.6 | 0.0 | 28.8 | 35.3 | 0.0 | 34.5 | 29.6 | 18.1 | 11.3 | 36.9 | 28.1 | 28.1 |
| Incr Delay (d2), s/veh | 16.1 | 0.0 | 82.9 | 6.3 | 0.0 | 0.8 | 50.1 | 10.0 | 0.1 | 10.8 | 68.0 | 68.8 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 7.8 | 0.0 | 15.1 | 1.1 | 0.0 | 0.2 | 11.9 | 11.9 | 0.3 | 0.3 | 16.2 | 15.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 43.7 | 0.0 | 111.7 | 41.5 | 0.0 | 35.3 | 79.7 | 28.1 | 11.5 | 47.7 | 96.1 | 96.9 |
| LnGrp LOS | D | A | F | D | A | D | F | C | B | D | F | F |
| Approach Vol, veh/h | | 788 | | | 64 | | | 1154 | | | 992 | |
| Approach Delay, s/veh | | 80.1 | | | 40.5 | | | 45.3 | | | 95.8 | |
| Approach LOS | | F | | | D | | | D | | | F | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.8 | 39.2 | | 22.5 | 21.0 | 24.0 | | 8.2 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 31.0 | | 18.0 | 16.5 | 19.5 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.6 | 27.9 | | 20.0 | 18.5 | 21.5 | | 4.2 | | | | |
| Green Ext Time (p_c), s | 0.0 | 1.4 | | 0.0 | 0.0 | 0.0 | | 0.2 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 71.1 |
| HCM 6th LOS | E |

Notes

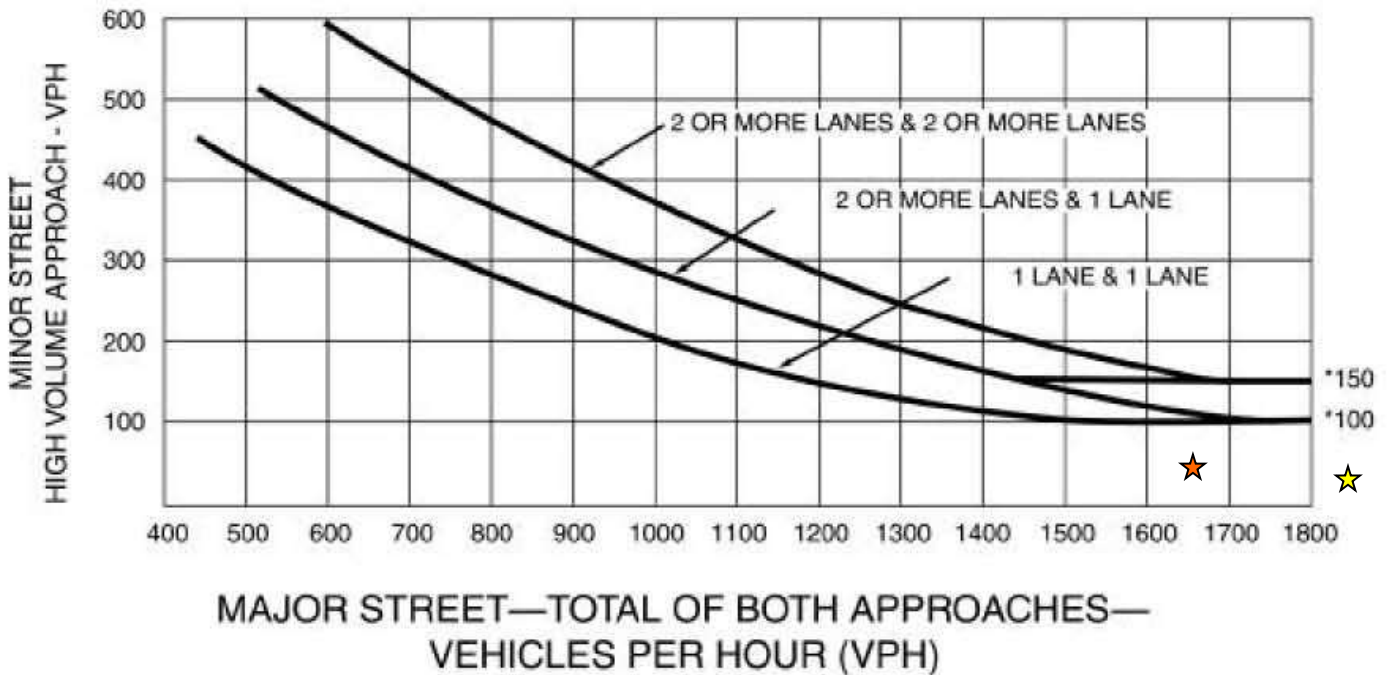
User approved ignoring U-Turning movement.

Peak Hour Warrant (Urban Areas)

Intersection: #1 Brentwood Blvd. & Hanson Ln., Brentwood, CA
Scenario: Cumulative Conditions

Figure 4C-3. Warrant 3, Peak Hour

Minor Street Volume = 48 (30) VPH



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Major Street Volume = 1656 (2136) VPH

★ *AM Peak Hour*

★ *PM Peak Hour*

A signal is NOT WARRANTED in the a.m. Peak Hour
A signal is NOT WARRANTED in the p.m. Peak Hour

**Appendix F – Cumulative plus Project Conditions Intersections Level of
Service Worksheets**

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 16.8 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 40 | 0 | 18 | 4 | 771 | 9 | 53 | 822 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 40 | 0 | 18 | 4 | 771 | 9 | 53 | 822 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 195 | - | - | 180 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 73 | 73 | 73 | 89 | 89 | 89 | 79 | 79 | 79 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 55 | 0 | 25 | 4 | 866 | 10 | 67 | 1041 | 0 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 2067 | 2059 | 1041 | 2054 | 2054 | 871 | 1041 | 0 | 0 | 876 | 0 | 0 |
| Stage 1 | 1175 | 1175 | - | 879 | 879 | - | - | - | - | - | - | - |
| Stage 2 | 892 | 884 | - | 1175 | 1175 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 40 | 55 | 279 | ~ 41 | 55 | 350 | 668 | - | - | 771 | - | 0 |
| Stage 1 | 233 | 265 | - | 342 | 365 | - | - | - | - | - | - | 0 |
| Stage 2 | 337 | 363 | - | 233 | 265 | - | - | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | - | - | - | | |
| Mov Cap-1 Maneuver | 35 | 50 | 279 | ~ 38 | 50 | 350 | 668 | - | - | 771 | - | - |
| Mov Cap-2 Maneuver | 35 | 50 | - | ~ 38 | 50 | - | - | - | - | - | - | - |
| Stage 1 | 232 | 242 | - | 340 | 363 | - | - | - | - | - | - | - |
| Stage 2 | 311 | 361 | - | 213 | 242 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|----------------------|----|----------|-----|-----|
| HCM Control Delay, s | 0 | \$ 426.9 | 0.1 | 0.6 |
| HCM LOS | A | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1WBLn1 | SBL | SBT |
|-----------------------|-------|-----|-----|------------|-------|-------|
| Capacity (veh/h) | 668 | - | - | - | 53 | 771 |
| HCM Lane V/C Ratio | 0.007 | - | - | - | 1.499 | 0.087 |
| HCM Control Delay (s) | 10.4 | - | - | \$ 426.9 | 10.1 | - |
| HCM Lane LOS | B | - | - | A | F | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 7.4 | 0.3 |

Notes
 -: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: AM Peak
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|-------|------|------|------|-------|-------|
| Lane Configurations | | ↖ | ↗ | | ↖ | ↗ | ↖ | ↑ | ↗ | ↖ | ↕ | ↗ |
| Traffic Volume (veh/h) | 199 | 13 | 276 | 41 | 44 | 13 | 363 | 398 | 25 | 7 | 521 | 276 |
| Future Volume (veh/h) | 199 | 13 | 276 | 41 | 44 | 13 | 363 | 398 | 25 | 7 | 521 | 276 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 226 | 15 | 314 | 60 | 65 | 19 | 412 | 452 | 28 | 9 | 635 | 337 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.68 | 0.68 | 0.68 | 0.88 | 0.88 | 0.88 | 0.82 | 0.82 | 0.82 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 370 | 25 | 350 | 82 | 89 | 148 | 373 | 834 | 706 | 20 | 555 | 294 |
| Arrive On Green | 0.22 | 0.22 | 0.22 | 0.09 | 0.09 | 0.09 | 0.21 | 0.45 | 0.45 | 0.01 | 0.25 | 0.25 |
| Sat Flow, veh/h | 1675 | 111 | 1585 | 877 | 950 | 1585 | 1781 | 1870 | 1583 | 1781 | 2241 | 1189 |
| Grp Volume(v), veh/h | 241 | 0 | 314 | 125 | 0 | 19 | 412 | 452 | 28 | 9 | 503 | 469 |
| Grp Sat Flow(s),veh/h/ln | 1787 | 0 | 1585 | 1827 | 0 | 1585 | 1781 | 1870 | 1583 | 1781 | 1777 | 1653 |
| Q Serve(g_s), s | 9.6 | 0.0 | 15.2 | 5.2 | 0.0 | 0.9 | 16.5 | 13.9 | 0.8 | 0.4 | 19.5 | 19.5 |
| Cycle Q Clear(g_c), s | 9.6 | 0.0 | 15.2 | 5.2 | 0.0 | 0.9 | 16.5 | 13.9 | 0.8 | 0.4 | 19.5 | 19.5 |
| Prop In Lane | 0.94 | | 1.00 | 0.48 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.72 |
| Lane Grp Cap(c), veh/h | 395 | 0 | 350 | 171 | 0 | 148 | 373 | 834 | 706 | 20 | 440 | 409 |
| V/C Ratio(X) | 0.61 | 0.00 | 0.90 | 0.73 | 0.00 | 0.13 | 1.10 | 0.54 | 0.04 | 0.45 | 1.14 | 1.14 |
| Avail Cap(c_a), veh/h | 408 | 0 | 362 | 417 | 0 | 362 | 373 | 834 | 706 | 113 | 440 | 409 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 27.6 | 0.0 | 29.8 | 34.7 | 0.0 | 32.8 | 31.1 | 16.0 | 12.3 | 38.7 | 29.6 | 29.6 |
| Incr Delay (d2), s/veh | 2.5 | 0.0 | 23.4 | 6.0 | 0.0 | 0.4 | 77.7 | 2.5 | 0.1 | 14.6 | 88.8 | 90.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.2 | 0.0 | 7.7 | 2.5 | 0.0 | 0.3 | 14.6 | 5.8 | 0.3 | 0.2 | 18.5 | 17.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 30.1 | 0.0 | 53.2 | 40.7 | 0.0 | 33.2 | 108.8 | 18.5 | 12.4 | 53.3 | 118.4 | 119.8 |
| LnGrp LOS | C | A | D | D | A | C | F | B | B | D | F | F |
| Approach Vol, veh/h | | 555 | | | 144 | | | 892 | | | 981 | |
| Approach Delay, s/veh | | 43.2 | | | 39.7 | | | 60.0 | | | 118.4 | |
| Approach LOS | | D | | | D | | | E | | | F | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.4 | 39.6 | | 21.9 | 21.0 | 24.0 | | 11.9 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 31.0 | | 18.0 | 16.5 | 19.5 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.4 | 15.9 | | 17.2 | 18.5 | 21.5 | | 7.2 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.4 | | 0.3 | 0.0 | 0.0 | | 0.4 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 77.5 |
| HCM 6th LOS | E |

Notes

User approved ignoring U-Turning movement.

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 18.3 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 21 | 0 | 15 | 4 | 1071 | 14 | 90 | 968 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 21 | 0 | 15 | 4 | 1071 | 14 | 90 | 968 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 195 | - | - | 180 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 56 | 56 | 56 | 95 | 95 | 95 | 95 | 95 | 95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 0 | 0 | 38 | 0 | 27 | 4 | 1127 | 15 | 95 | 1019 | 0 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | | Major2 | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|-------|--------|---|-------|---|---|
| Conflicting Flow All | 2365 | 2359 | 1019 | 2352 | 2352 | 1135 | 1019 | 0 | 0 | 1142 | 0 | 0 |
| Stage 1 | 1209 | 1209 | - | 1143 | 1143 | - | - | - | - | - | - | - |
| Stage 2 | 1156 | 1150 | - | 1209 | 1209 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.12 | 6.52 | 6.22 | 4.12 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.12 | 5.52 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 | 2.218 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 24 | 35 | 288 | ~ 25 | 36 | 246 | 681 | - | - | 612 | - | 0 |
| Stage 1 | 223 | 256 | - | 243 | 275 | - | - | - | - | - | - | 0 |
| Stage 2 | 239 | 273 | - | 223 | 256 | - | - | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 19 | 29 | 288 | ~ 22 | 30 | 246 | 681 | - | - | 612 | - | - |
| Mov Cap-2 Maneuver | 19 | 29 | - | ~ 22 | 30 | - | - | - | - | - | - | - |
| Stage 1 | 222 | 216 | - | 242 | 273 | - | - | - | - | - | - | - |
| Stage 2 | 212 | 271 | - | 188 | 216 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|----------------------|----|----------|----|----|
| HCM Control Delay, s | 0 | \$ 643.2 | 0 | 1 |
| HCM LOS | A | F | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1WBLn1 | SBL | SBT |
|-----------------------|-------|-----|-----|------------|-------|-------|
| Capacity (veh/h) | 681 | - | - | - | 35 | 612 |
| HCM Lane V/C Ratio | 0.006 | - | - | - | 1.837 | 0.155 |
| HCM Control Delay (s) | 10.3 | - | - | \$ 643.2 | 12 | - |
| HCM Lane LOS | B | - | - | A | F | B |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 7.1 | 0.5 |

Notes
 -: Volume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: PM Peak
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|-------|------|------|------|------|------|------|------|-------|-------|
| Lane Configurations | | ↔ | ↔ | | ↔ | ↔ | ↔ | ↑ | ↔ | ↔ | ↔↔ | |
| Traffic Volume (veh/h) | 270 | 66 | 350 | 25 | 37 | 15 | 367 | 674 | 32 | 24 | 661 | 220 |
| Future Volume (veh/h) | 270 | 66 | 350 | 25 | 37 | 15 | 367 | 674 | 32 | 24 | 661 | 220 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 325 | 80 | 422 | 31 | 46 | 19 | 395 | 725 | 34 | 27 | 734 | 244 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.80 | 0.80 | 0.80 | 0.93 | 0.93 | 0.93 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 339 | 83 | 372 | 45 | 67 | 98 | 383 | 824 | 698 | 51 | 665 | 221 |
| Arrive On Green | 0.23 | 0.23 | 0.23 | 0.06 | 0.06 | 0.06 | 0.22 | 0.44 | 0.44 | 0.03 | 0.25 | 0.25 |
| Sat Flow, veh/h | 1443 | 355 | 1585 | 738 | 1095 | 1585 | 1781 | 1870 | 1583 | 1781 | 2618 | 870 |
| Grp Volume(v), veh/h | 405 | 0 | 422 | 77 | 0 | 19 | 395 | 725 | 34 | 27 | 498 | 480 |
| Grp Sat Flow(s),veh/h/ln | 1798 | 0 | 1585 | 1833 | 0 | 1585 | 1781 | 1870 | 1583 | 1781 | 1777 | 1712 |
| Q Serve(g_s), s | 17.1 | 0.0 | 18.0 | 3.2 | 0.0 | 0.9 | 16.5 | 27.2 | 0.9 | 1.1 | 19.5 | 19.5 |
| Cycle Q Clear(g_c), s | 17.1 | 0.0 | 18.0 | 3.2 | 0.0 | 0.9 | 16.5 | 27.2 | 0.9 | 1.1 | 19.5 | 19.5 |
| Prop In Lane | 0.80 | | 1.00 | 0.40 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.51 |
| Lane Grp Cap(c), veh/h | 422 | 0 | 372 | 113 | 0 | 98 | 383 | 824 | 698 | 51 | 452 | 435 |
| V/C Ratio(X) | 0.96 | 0.00 | 1.13 | 0.68 | 0.00 | 0.19 | 1.03 | 0.88 | 0.05 | 0.53 | 1.10 | 1.10 |
| Avail Cap(c_a), veh/h | 422 | 0 | 372 | 430 | 0 | 372 | 383 | 824 | 698 | 116 | 452 | 435 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 29.0 | 0.0 | 29.4 | 35.3 | 0.0 | 34.2 | 30.1 | 19.6 | 12.3 | 36.8 | 28.6 | 28.6 |
| Incr Delay (d2), s/veh | 33.5 | 0.0 | 88.6 | 7.0 | 0.0 | 1.0 | 54.2 | 12.9 | 0.1 | 8.4 | 73.4 | 74.1 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 10.8 | 0.0 | 15.6 | 1.6 | 0.0 | 0.4 | 12.3 | 13.1 | 0.3 | 0.6 | 16.8 | 16.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 62.5 | 0.0 | 117.9 | 42.3 | 0.0 | 35.2 | 84.3 | 32.5 | 12.4 | 45.1 | 102.0 | 102.7 |
| LnGrp LOS | E | A | F | D | A | D | F | C | B | D | F | F |
| Approach Vol, veh/h | | 827 | | | 96 | | | 1154 | | | 1005 | |
| Approach Delay, s/veh | | 90.8 | | | 40.9 | | | 49.6 | | | 100.8 | |
| Approach LOS | | F | | | D | | | D | | | F | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 6.7 | 38.3 | | 22.5 | 21.0 | 24.0 | | 9.2 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 31.0 | | 18.0 | 16.5 | 19.5 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 3.1 | 29.2 | | 20.0 | 18.5 | 21.5 | | 5.2 | | | | |
| Green Ext Time (p_c), s | 0.0 | 0.9 | | 0.0 | 0.0 | 0.0 | | 0.3 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 77.1 |
| HCM 6th LOS | E |

Notes

User approved ignoring U-Turning movement.

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: AM Peak Opt.
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|-------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↗ | | ↕ | ↗ | ↗ | ↑ | ↗ | ↗ | ↕↔ | |
| Traffic Volume (veh/h) | 199 | 13 | 276 | 41 | 44 | 13 | 363 | 398 | 25 | 7 | 521 | 276 |
| Future Volume (veh/h) | 199 | 13 | 276 | 41 | 44 | 13 | 363 | 398 | 25 | 7 | 521 | 276 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 226 | 15 | 314 | 60 | 65 | 19 | 412 | 452 | 28 | 9 | 635 | 337 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.68 | 0.68 | 0.68 | 0.88 | 0.88 | 0.88 | 0.82 | 0.82 | 0.82 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 304 | 20 | 288 | 78 | 85 | 141 | 442 | 1006 | 852 | 20 | 674 | 358 |
| Arrive On Green | 0.18 | 0.18 | 0.18 | 0.09 | 0.09 | 0.09 | 0.25 | 0.54 | 0.54 | 0.01 | 0.30 | 0.30 |
| Sat Flow, veh/h | 1675 | 111 | 1585 | 877 | 950 | 1585 | 1781 | 1870 | 1584 | 1781 | 2241 | 1189 |
| Grp Volume(v), veh/h | 241 | 0 | 314 | 125 | 0 | 19 | 412 | 452 | 28 | 9 | 503 | 469 |
| Grp Sat Flow(s),veh/h/ln | 1787 | 0 | 1585 | 1827 | 0 | 1585 | 1781 | 1870 | 1584 | 1781 | 1777 | 1654 |
| Q Serve(g_s), s | 12.7 | 0.0 | 18.1 | 6.7 | 0.0 | 1.1 | 22.6 | 14.7 | 0.8 | 0.5 | 27.6 | 27.6 |
| Cycle Q Clear(g_c), s | 12.7 | 0.0 | 18.1 | 6.7 | 0.0 | 1.1 | 22.6 | 14.7 | 0.8 | 0.5 | 27.6 | 27.6 |
| Prop In Lane | 0.94 | | 1.00 | 0.48 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.72 |
| Lane Grp Cap(c), veh/h | 324 | 0 | 288 | 163 | 0 | 141 | 442 | 1006 | 852 | 20 | 534 | 497 |
| V/C Ratio(X) | 0.74 | 0.00 | 1.09 | 0.77 | 0.00 | 0.13 | 0.93 | 0.45 | 0.03 | 0.46 | 0.94 | 0.94 |
| Avail Cap(c_a), veh/h | 324 | 0 | 288 | 330 | 0 | 286 | 462 | 1006 | 852 | 89 | 534 | 497 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 38.6 | 0.0 | 40.8 | 44.4 | 0.0 | 41.9 | 36.7 | 14.0 | 10.8 | 49.0 | 34.0 | 34.0 |
| Incr Delay (d2), s/veh | 8.9 | 0.0 | 79.9 | 7.3 | 0.0 | 0.4 | 25.2 | 1.5 | 0.1 | 15.6 | 27.0 | 28.3 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 6.3 | 0.0 | 13.3 | 3.3 | 0.0 | 0.4 | 12.5 | 6.1 | 0.3 | 0.3 | 15.3 | 14.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 47.6 | 0.0 | 120.8 | 51.8 | 0.0 | 42.3 | 61.9 | 15.5 | 10.9 | 64.6 | 61.0 | 62.3 |
| LnGrp LOS | D | A | F | D | A | D | E | B | B | E | E | E |
| Approach Vol, veh/h | | 555 | | | 144 | | | 892 | | | 981 | |
| Approach Delay, s/veh | | 89.0 | | | 50.5 | | | 36.8 | | | 61.7 | |
| Approach LOS | | F | | | D | | | D | | | E | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 5.6 | 58.2 | | 22.6 | 29.3 | 34.5 | | 13.4 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 50.9 | | 18.1 | 25.9 | 30.0 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 2.5 | 16.7 | | 20.1 | 24.6 | 29.6 | | 8.7 | | | | |
| Green Ext Time (p_c), s | 0.0 | 2.9 | | 0.0 | 0.2 | 0.3 | | 0.4 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 58.3 |
| HCM 6th LOS | E |

Notes

User approved ignoring U-Turning movement.

HCM 6th Signalized Intersection Summary
2: Brentwood Blvd & Lone Tree Way

Timing Plan: PM Peak Opt.
02/03/2022



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|-------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | ↔ | | ↔ | ↔ | ↔ | ↑ | ↔ | ↔ | ↔ | ↔ |
| Traffic Volume (veh/h) | 270 | 66 | 350 | 25 | 37 | 15 | 367 | 674 | 32 | 24 | 661 | 220 |
| Future Volume (veh/h) | 270 | 66 | 350 | 25 | 37 | 15 | 367 | 674 | 32 | 24 | 661 | 220 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 325 | 80 | 422 | 31 | 46 | 19 | 395 | 725 | 34 | 27 | 734 | 244 |
| Peak Hour Factor | 0.83 | 0.83 | 0.83 | 0.80 | 0.80 | 0.80 | 0.93 | 0.93 | 0.93 | 0.90 | 0.90 | 0.90 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 355 | 88 | 390 | 42 | 62 | 90 | 419 | 995 | 842 | 43 | 840 | 279 |
| Arrive On Green | 0.25 | 0.25 | 0.25 | 0.06 | 0.06 | 0.06 | 0.24 | 0.53 | 0.53 | 0.02 | 0.32 | 0.32 |
| Sat Flow, veh/h | 1443 | 355 | 1585 | 738 | 1095 | 1585 | 1781 | 1870 | 1584 | 1781 | 2618 | 870 |
| Grp Volume(v), veh/h | 405 | 0 | 422 | 77 | 0 | 19 | 395 | 725 | 34 | 27 | 498 | 480 |
| Grp Sat Flow(s),veh/h/ln | 1798 | 0 | 1585 | 1833 | 0 | 1585 | 1781 | 1870 | 1584 | 1781 | 1777 | 1712 |
| Q Serve(g_s), s | 28.0 | 0.0 | 31.5 | 5.3 | 0.0 | 1.5 | 27.9 | 37.9 | 1.3 | 1.9 | 33.8 | 33.8 |
| Cycle Q Clear(g_c), s | 28.0 | 0.0 | 31.5 | 5.3 | 0.0 | 1.5 | 27.9 | 37.9 | 1.3 | 1.9 | 33.8 | 33.8 |
| Prop In Lane | 0.80 | | 1.00 | 0.40 | | 1.00 | 1.00 | | 1.00 | 1.00 | | 0.51 |
| Lane Grp Cap(c), veh/h | 443 | 0 | 390 | 104 | 0 | 90 | 419 | 995 | 842 | 43 | 570 | 549 |
| V/C Ratio(X) | 0.91 | 0.00 | 1.08 | 0.74 | 0.00 | 0.21 | 0.94 | 0.73 | 0.04 | 0.63 | 0.87 | 0.87 |
| Avail Cap(c_a), veh/h | 443 | 0 | 390 | 258 | 0 | 223 | 439 | 995 | 842 | 70 | 570 | 549 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 46.9 | 0.0 | 48.2 | 59.4 | 0.0 | 57.6 | 48.0 | 22.9 | 14.3 | 61.8 | 41.0 | 41.0 |
| Incr Delay (d2), s/veh | 23.4 | 0.0 | 68.9 | 9.7 | 0.0 | 1.1 | 28.3 | 4.7 | 0.1 | 14.1 | 16.9 | 17.4 |
| Initial Q Delay(d3),s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 15.2 | 0.0 | 19.7 | 2.7 | 0.0 | 0.6 | 15.4 | 17.0 | 0.5 | 1.0 | 17.1 | 16.5 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d),s/veh | 70.2 | 0.0 | 117.1 | 69.1 | 0.0 | 58.7 | 76.3 | 27.6 | 14.4 | 76.0 | 57.9 | 58.4 |
| LnGrp LOS | E | A | F | E | A | E | E | C | B | E | E | E |
| Approach Vol, veh/h | | 827 | | | 96 | | | 1154 | | | 1005 | |
| Approach Delay, s/veh | | 94.1 | | | 67.0 | | | 43.9 | | | 58.6 | |
| Approach LOS | | F | | | E | | | D | | | E | |
| Timer - Assigned Phs | 1 | 2 | | 4 | 5 | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 7.6 | 72.5 | | 36.0 | 34.6 | 45.5 | | 11.8 | | | | |
| Change Period (Y+Rc), s | 4.5 | 4.5 | | 4.5 | 4.5 | 4.5 | | 4.5 | | | | |
| Max Green Setting (Gmax), s | 5.0 | 67.5 | | 31.5 | 31.5 | 41.0 | | 18.0 | | | | |
| Max Q Clear Time (g_c+I1), s | 3.9 | 39.9 | | 33.5 | 29.9 | 35.8 | | 7.3 | | | | |
| Green Ext Time (p_c), s | 0.0 | 5.3 | | 0.0 | 0.2 | 2.6 | | 0.2 | | | | |

Intersection Summary

| | |
|--------------------|------|
| HCM 6th Ctrl Delay | 62.9 |
| HCM 6th LOS | E |

Notes

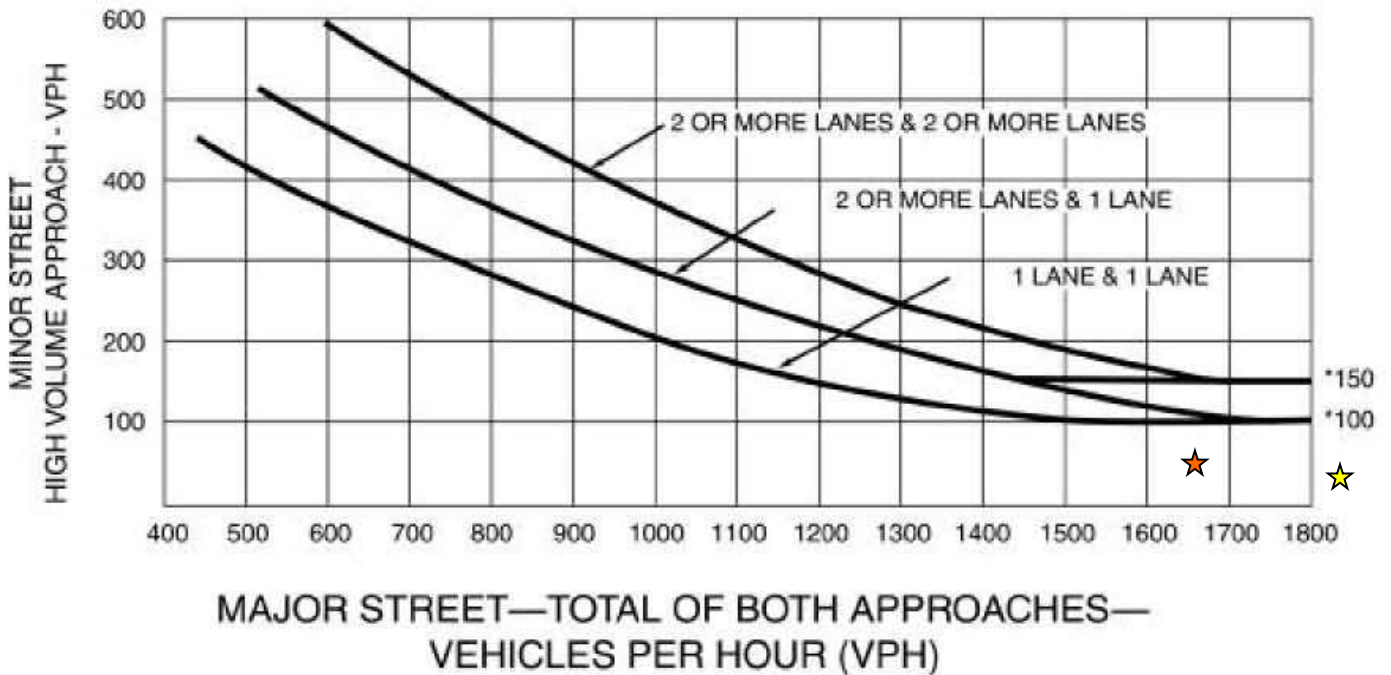
User approved ignoring U-Turning movement.

Peak Hour Warrant (Urban Areas)

Intersection: #1 Brentwood Blvd. & Hanson Ln., Brentwood, CA
Scenario: Cumulative plus Project Conditions

Figure 4C-3. Warrant 3, Peak Hour

Minor Street Volume = 58 (36) VPH



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Major Street Volume = 1659 (2147) VPH

★ *AM Peak Hour*

★ *PM Peak Hour*

A signal is NOT WARRANTED in the a.m. Peak Hour
A signal is NOT WARRANTED in the p.m. Peak Hour