

City of Oakley
Planning Division

OAKLEY



CALIFORNIA

**Honey Creekside Subdivision 9579 Project
Initial Study/Mitigated Negative Declaration**

March 2022

Prepared by



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INITIAL STUDY

A. BACKGROUND

1. Project Title: Honey Creekside Subdivision 9579 Project
2. Lead Agency Name and Address: City of Oakley
Planning Division
3231 Main Street
Oakley, CA 94561
3. Contact Person and Phone Number: Ken Strela
Planning Manager
(925) 625-7000
4. Project Location: 463 Honey Lane and 560 Honey Lane
Oakley, CA 94561
Accessor's Parcel Numbers (APNs): 033-030-028 and 033-030-032
5. Project Applicant Name and Address: Nuvera Homes
7041 Koll Center Parkway, Suite 130
Pleasanton, CA 94566
(925) 309-8888
6. Existing General Plan Designation: Residential Low/Medium (RLM)
7. Existing Zoning Designation: Single-Family Residential (R-6) District
8. Proposed Zoning Designation: Planned Unit Development (P-1) District
9. Required Approvals from Other Public Agencies: None
10. Surrounding Land Uses and Setting:

The 10.57-acre project site is comprised of two neighboring parcels in the City of Oakley, California. The lot located at 560 Honey Lane, identified by APN 033-030-032, is hereafter referred to as the Northern Parcel. The lot located at 463 Honey Lane, identified by APN 033-030-028, is referred to as the Southern Parcel. The northern portion of the Southern Parcel is currently developed with one 1,328 square foot (sf) single-family residence, as well as an associated ancillary structure, septic tank, well, and utility poles. The entire Northern Parcel and the remainder of the Southern Parcel consist of undeveloped land with ruderal vegetation and limited trees.

The project site is bisected by Honey Lane and is generally bound by Creekside Park to the north; a Contra Costa County Flood Control and Water Conservation District (CCCFCWCD) maintenance trail, Marsh Creek, the Marsh Creek Regional Trail, and Salvador Lane to the east; single-family residences to the south; and undeveloped land

and a vacant lot planned for residential development to the west. In addition, single-family residences are located northwest of the intersection of Honey Lane and Creekside Way, and to the east beyond Marsh Creek and across Salvador Lane. The City of Oakley General Plan designates the site as Residential Low/Medium (RLM) and the site is zoned Single-Family Residential (R-6) District.

11. Project Description Summary:

The Honey Creekside Subdivision 9579 Project (proposed project) would include demolition of the existing on-site structures, removal of the septic tank, well, and utility poles and overhead wires on the Southern Parcel, and the removal of 20 on-site trees to allow for development of the site with 57 single-family residences. The proposed project would also involve the construction of an internal roadway network throughout the project site, which would connect to Honey Lane and Salvador Lane and provide primary access to the site. Additionally, the proposed project would include the provision of five bioretention areas on the Northern Parcel and five bioretention areas on the Southern Parcel. The project would require approval of a Rezone of the project site from R-6 District to P-1 District (RZ 03-21), a Vesting Tentative Map (TM 02-21), and Design Review (DR 08-21).

12. 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), a project notification letter was distributed to the chairpersons of the following tribes on January 24, 2022: 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, The Ohline Indian Tribe, Tule River Indian Tribe, Wilton Rancheria, and The Confederated Villages of Lisjan.

A request for consultation was received from The Confederated Villages of Lisjan Chairperson Corrina Gould on January 24, 2022, to which a response was given, explaining that a site visit to evaluate the potential for on-site cultural resources would occur as part of the Cultural Resources Report for the project site. In addition, Chairperson Gould was supplied with the Cultural Resources Report prepared by Tom Origer & Associates for the proposed project. Additional comments were not received from Chairperson Gould. As such, consultation was concluded on February 10, 2022.

B. SOURCES

All technical reports and modeling results prepared for the project analysis are available at: <https://www.ci.oakley.ca.us/ceqa-documents/>. The following documents are referenced information sources used for the purposes of this Initial Study/Mitigated Negative Declaration (IS/MND):

1. Antioch Unified School District. *Facilities Master Plan* [pg. 248]. July 2018.
2. Bay Area Air Quality Management District. *Air Quality Summary Reports*. Available at: <http://www.baaqmd.gov/about-air-quality/air-quality-summaries>. Accessed February 2022.
3. Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines*. May 2017.

4. California Air Resources Board. *The 2017 Climate Change Scoping Plan Update*. January 20, 2017.
5. California Building Standards Commission. *California Green Building Standards Code*. 2019.
6. California Department of Conservation. *California Earthquake Hazards Zone Application*. Available at: <https://maps.conservation.ca.gov/cgs/EQZApp/app/>. Accessed February 2022.
7. California Department of Conservation. *California Important Farmland Finder*. Available at: <https://maps.conservation.ca.gov/dlrp/ciff/>. Accessed February 2022.
8. California Department of Forestry and Fire Protection. *Contra Costa County, Very High Fire Hazard Severity Zones in LRA*. January 7, 2009.
9. California Department of Resources Recycling and Recovery (CalRecycle). *Facility/Site Summary: Potrero Hill Landfill (48-AA-0075)*. Available at: <https://www2.calrecycle.ca.gov/SolidWaste/Site/Summary/3591>. Accessed December 2021.
10. California Department of Toxic Substances Control. *Interim Guidance for Sampling Agricultural Properties (Third Revision)*. August 7, 2008.
11. California Department of Transportation. *California State Scenic Highway System Map*. Available at: <https://www.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aaca>. Accessed January 2022.
12. California Energy Commission. *Title 24 2019 Building Energy Efficiency Standards FAQ*. November 2018.
13. California Geologic Survey. *Seismic Hazard Zone Report for the Brentwood 7.5-Minute Quadrangle, Contra Costa County, California*. 2018.
14. Carlson, Barbee & Gibson, Inc. *Honey/Creekside Subdivision 9579 Preliminary Storm Drain Study*. November 9, 2021.
15. Carlson, Barbee & Gibson, Inc. *Honey/Creekside Preliminary Stormwater Control Plan*. January 3, 2022.
16. City of Oakley. *City of Oakley 2020 General Plan Draft Environmental Impact Report*. September 2002.
17. City of Oakley. *Oakley Municipal Code*. Updated February 23, 2021.
18. City of Oakley. *City of Oakley General Plan*. Adopted January 11, 2022.
19. City of Oakley. *City of Oakley Focused General Plan Update Initial Study/Negative Declaration*. August 2021.
20. City of Oakley. *Strategic Energy Plan*. Fall 2015.
21. City of Oakley. *Traffic Impact Analysis Guidelines*. Adopted October 2018.
22. City of Oakley. *Mobility White Paper, City of Oakley Focused General Plan Update*. December 2019.
23. City of Oakley Police Department. *2017 Annual Report*. 2017. Available at: <http://www.ci.oakley.ca.us/wp-content/uploads/2018/04/Annual-Report-2017-2-2.pdf>. Accessed January 2022.
24. Contra Costa County. *Transportation Analysis Guidelines*. June 23, 2020.
25. Contra Costa County Clean Water Program. *Stormwater C.3 Guidebook*. May 17, 2017.
26. Contra Costa Conservation and Development. *2016 Agricultural Preserves Map*. Available at: <https://www.contracosta.ca.gov/DocumentCenter/View/882/Map-of-Properties-Under-Contract?bidId=>. Accessed December 2021.
27. Department of Toxic Substances Control. *Hazardous Waste and Substances Site List*. Available at: <https://www.envirostor.dtsc.ca.gov/public/search?cmd=search&reporttype=CORTESE&s>

- [ite_type=CSITES,FUDS&status=ACT,BKLG,COM&reporttitle=HAZARDOUS+WASTE+AND+SUBSTANCES+SITE+LIST+%28CORTESE%29](#). Accessed December 2021.
28. Diablo Water District. *2020 Urban Water Management Plan*. June 2021.
 29. East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan*. October 2006.
 30. East Contra Costa County Integrated Regional Water Management. *East Contra Costa Subbasin Map*. Available at: <https://www.eccc-irwm.org/about-sgma>. Accessed January 2022.
 31. Federal Emergency Management Agency. *Flood Insurance Rate Map 06013C0355G*. Effective March 21, 2017.
 32. GeoSolve, Inc. *Phase I and Phase II Environmental Site Assessments on Proposed Residential Development – 10.605 Acres, 463 and 560 Honey Lane, Oakley, California*. March 29, 2021.
 33. Hort Science | Bartlett Consulting. *Preliminary Arborist Report, 463 and 560 Honey Lane, Oakley, California*. November 5, 2021.
 34. H.T. Harvey & Associates. *East Contra Costa Habitat Conservation Plan – Assessment of Plan Effects on CEQA Species*. February 17, 2015.
 35. Ironhouse Sanitary District. *Sewer System Management Plan*. April 2017.
 36. Live Oak Associates, Inc. *Planning Survey Report*. November 12, 2021.
 37. Quantum Geotechnical. *Preliminary Geotechnical Investigation on Proposed Residential Development at 463 and 560 Honey Lane, Oakley, California*. July 19, 2021.
 38. State Water Resources Control Board. *GeoTracker*. Available at: <https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=oakley+california>. Accessed December 2021.
 39. South Coast Air Quality Management District. 2008. *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold*. Available at: [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/ghgattachmente.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf). Accessed February 2022.
 40. TJKM. *Traffic Study for 463 and 560 Honey Lane in Oakley, California*. November 11, 2021.
 41. Tom Origer & Associates. *Cultural Resources Study for the Honey Creekside Project, Oakley, Contra Costa County, California*. February 7, 2022.
 42. U.S. Census Bureau. *Quick Facts, City of Oakley, California*. Available at: <https://www.census.gov/quickfacts/fact/table/oakleycitycalifornia/POP010220#POP010220>. Accessed March 2022.

C. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

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

- | | | |
|--|---|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture and Forest Resources | <input 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 type="checkbox"/> Greenhouse Gas Emissions | <input checked="" type="checkbox"/> Hazards and Hazardous Materials |
| <input 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 type="checkbox"/> Public Services |
| <input 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 |

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

Ken Strelo, Planning Manager

Printed Name

Date

City of Oakley

For

E. BACKGROUND AND INTRODUCTION

This IS/MND provides an environmental analysis pursuant to the California Environmental Quality Act (CEQA) for the proposed project. The applicant has submitted this application to the City of Oakley, which is the Lead Agency for the purposes of CEQA review. The IS/MND contains an analysis of the environmental effects of construction and operation of the proposed project.

In December 2002, the City of Oakley adopted the Oakley General Plan and the Oakley General Plan Environmental Impact Report (EIR). The General Plan EIR was a program-level EIR, prepared pursuant to Section 15168 of the CEQA Guidelines (Title 14, California Code of Regulations [CCR], Sections 15000 et seq.). The General Plan EIR analyzed full implementation of the Oakley General Plan and identified measures to mitigate the significant adverse project and cumulative impacts associated with the General Plan.

In January 2022, the City of Oakley adopted the Focused General Plan Update and the Focused General Plan Update Initial Study/Negative Declaration (IS/ND). The Focused General Plan Update IS/ND analyzed implementation of the Focused General Plan Update. The Focused General Plan Update amended the City's existing General Plan to bring it into compliance with State requirements related to environmental justice, mobility, and climate change and adaptation. The Focused General Plan Update also updated the setting information, and provided minor revisions to the goals, policies, and programs in the following elements: Land Use, Growth Management, Open Space and Conservation, Parks and Recreation, Noise, and Economic Development. All updates were applied to be consistent with current conditions, to remove policies and programs that have already been implemented or are no longer applicable, to update policies and programs to reflect current City practices, and to clarify the City's approach to achieving the vision and goals of the General Plan.

Pursuant to CEQA Guidelines Section 15150(a), the City of Oakley General Plan, Focused General Plan Update, General Plan EIR, and Focused General Plan Update IS/ND are incorporated by reference. The aforementioned documents are available online at:

- <https://www.ci.oakley.ca.us/departments/planning-zoning/reference-documents/>
- <https://www.ci.oakley.ca.us/general-plan-update/>

The impact discussions for each section of this IS/MND have been largely based on information in the Oakley General Plan, Focused General Plan Update, Oakley General Plan EIR, and Focused General Plan Update IS/ND, as well as technical studies prepared for the proposed project.

The mitigation measures prescribed for environmental effects described in this IS/MND would be implemented in conjunction with the project, as required by CEQA, and the mitigation measures would be incorporated into the project. In addition, a project Mitigation Monitoring and Reporting Program (MMRP) would be adopted in conjunction with approval of the project.

F. PROJECT DESCRIPTION

The following section provides a comprehensive description of the proposed project in accordance with CEQA Guidelines, including the project location and setting, and project components.

Project Location and Setting

The 10.57-acre project site is comprised of two neighboring parcels in the City of Oakley, California. The Northern Parcel, identified by APN 033-030-032, is located at 560 Honey Lane. The Southern Parcel, identified by APN 033-030-028, is located at 463 Honey Lane (see Figure 1 and Figure 2). The project site is bisected by Honey Lane and is generally bound by Creekside Park to the north and a CCCFCWCD maintenance trail, Marsh Creek, the Marsh Creek Regional Trail, and Salvador Lane to the east. The project site is located approximately three miles east of State Route (SR) 4 and approximately 3.8 miles southeast of SR 160. The site is designated RLM per the City's General Plan, and the site is zoned R-6 District.

Surrounding existing land uses include undeveloped land and a vacant lot planned for residential development to the west; single-family residences to the northwest, beyond the intersection of Honey Lane and Creekside Way; and single-family residences to the east, beyond Marsh Creek and across Salvador Lane. Currently, the northern portion of the Southern Parcel is developed with one single-family residence, as well as an associated ancillary structure, septic tank, well, and utility poles. The Northern Parcel and the remaining area of the Southern Parcel consists of undeveloped land with ruderal vegetation and limited trees. The topography of the site is relatively flat.

Project Components

The proposed project would include the demolition of both structures on the Southern Parcel, removal of the existing septic tank, well, utility poles and overhead wires on the Southern Parcel, the removal of 20 on-site trees on the overall project site, and the subsequent development of the site with 57 single-family residential units and associated internal roadways (see Figure 3). The project would require approval of a Rezone, VTM, and Design Review, each of which are described in further detail below.

Rezone

The proposed project would include a Rezone of the project site from R-6 District to P-1 District. The purpose of the P-1 District would be to allow diversification in the relationship of various uses, buildings, structures, lot sizes, and open spaces. Requirements for the P-1 District will be established as part of the adoption of the P-1 District for the project site. Approval of a Rezone would ensure compatibility with surrounding land uses, and maintain substantial compliance with the City's General Plan.

Vesting Tentative Map

The VTM would divide the project site into 57 single-family residential lots, Parcels A and B, and an internal circulation network (see Figure 4). The single-family lots would range in size from 3,786 sf to 10,068 sf. The 31,007-sf Parcel A is within the 75-foot setback from Marsh Creek and includes the existing CCCFCWCD maintenance trail. Parcel A is not planned for development at this time and would provide flood control along Marsh Creek. The 5,438-sf Parcel B would provide open space in the southeastern corner of the Northern Parcel. Below is additional detail regarding the proposed residences, site access and circulation, landscaping, utility infrastructure, and off-site improvements.

Proposed Residences

The proposed single-family residences would range in size from 2,518 sf to 2,777 sf, and each unit would include a two-car garage and private driveway. The residences would be arranged around, and set back approximately 20 feet from, the proposed internal roadways.

Figure 1
Regional Project Location



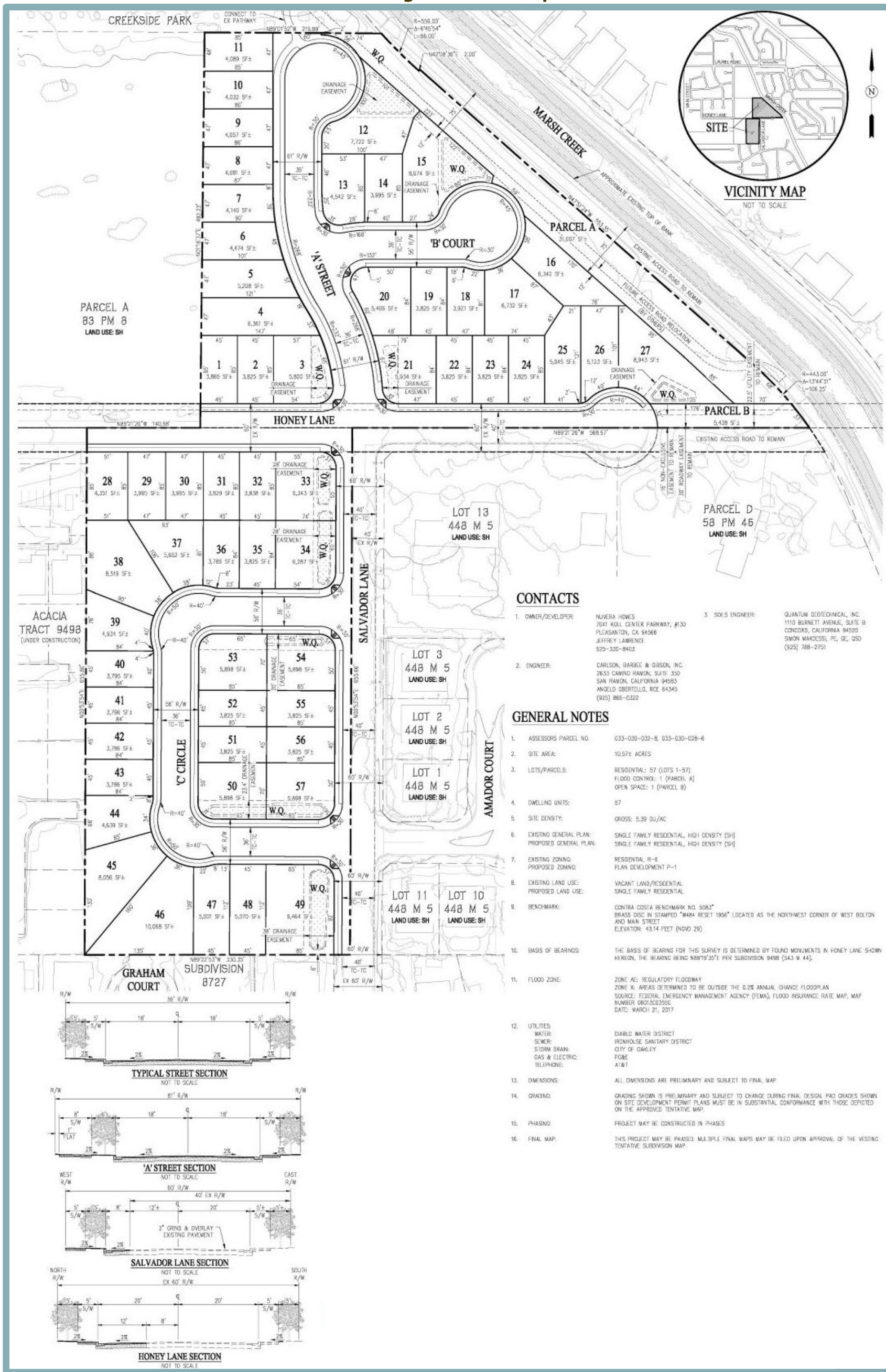
Figure 2
Project Site Boundaries



Figure 3
Illustrative Site Plan



Figure 4
Vesting Tentative Map



Site Access and Circulation

An internal roadway system would be constructed throughout the project site to provide access to each unit. The internal circulation system generally provides 36 feet of travel lane and five-foot-wide sidewalks. A Street, which offers a northward extension of Salvador Lane, and B Court would provide access to the Northern Parcel. A trail is proposed on the west side of A Street and would connect to the existing pathway north of the project site and provide pedestrian and bicycle access to Creekside Park and the Marsh Creek Regional Trail. Two new driveways, as part of C Circle, would be constructed off of Salvador Lane to provide site access to the Southern Parcel.

Landscaping

As part of the proposed project, 20 on-site trees would be removed. Landscaping improvements would be provided throughout the project site, as well as along the Honey Lane and Salvador Lane frontages (see Figure 5). A variety of trees and shrubs and drought-tolerant landscaping would be provided along the internal roadways, as well as the frontage of the residential lots. All landscaping would comply with the State's Model Water Efficient Landscape Ordinance (MWELO).

Utilities

Water service for the proposed project would be provided by the Diablo Water District (DWD). The proposed project would include construction of new eight-inch water lines throughout the project site, with connections to the existing eight-inch water main in Salvador Lane and 12-inch water main within Honey Lane (see Figure 6).

Sanitary sewer service for the proposed project would be provided by the Ironhouse Sanitary District (ISD). The proposed project would include construction of new eight-inch sanitary sewer lines throughout the project site. The proposed sanitary sewer lines would direct wastewater ultimately to the existing 10-inch sanitary sewer main within Salvador Lane.

In order to manage and treat stormwater, the project site would be divided into 11 drainage management areas (DMAs). Each DMA would include an associated bioretention area, with the exception of DMA 11, which is self-treating. Stormwater from the impervious areas within each DMA would be collected by a series of roof leaders into new storm drain inlets, and then directed towards the DMA's associated bioretention area. The bioretention areas would be landscaped with mulch and sandy loam and would serve to treat stormwater on the project site. The bioretention areas would accommodate runoff from all 57 residential lots and the roadways on the site, and are designed according to the criteria in the Contra Costa County Clean Water Program *Stormwater C.3 Guidebook* to treat stormwater on the project site prior to discharge into the City's stormwater system. Following treatment, stormwater would be directed into a new network of 18-inch stormwater lines and ultimately into the City's storm drain system in Honey Lane and Salvador Lane (see Figure 7).

Off-Site Improvements

To facilitate access to the project site, the proposed project would include an off-site improvement to modify the existing intersection at Honey Lane and Salvador Lane to a four-lane, all-way stop control intersection. The project would also designate eight-foot-wide parking lanes on each side of Honey Lane along the project frontage.

Figure 5
Landscape Plan

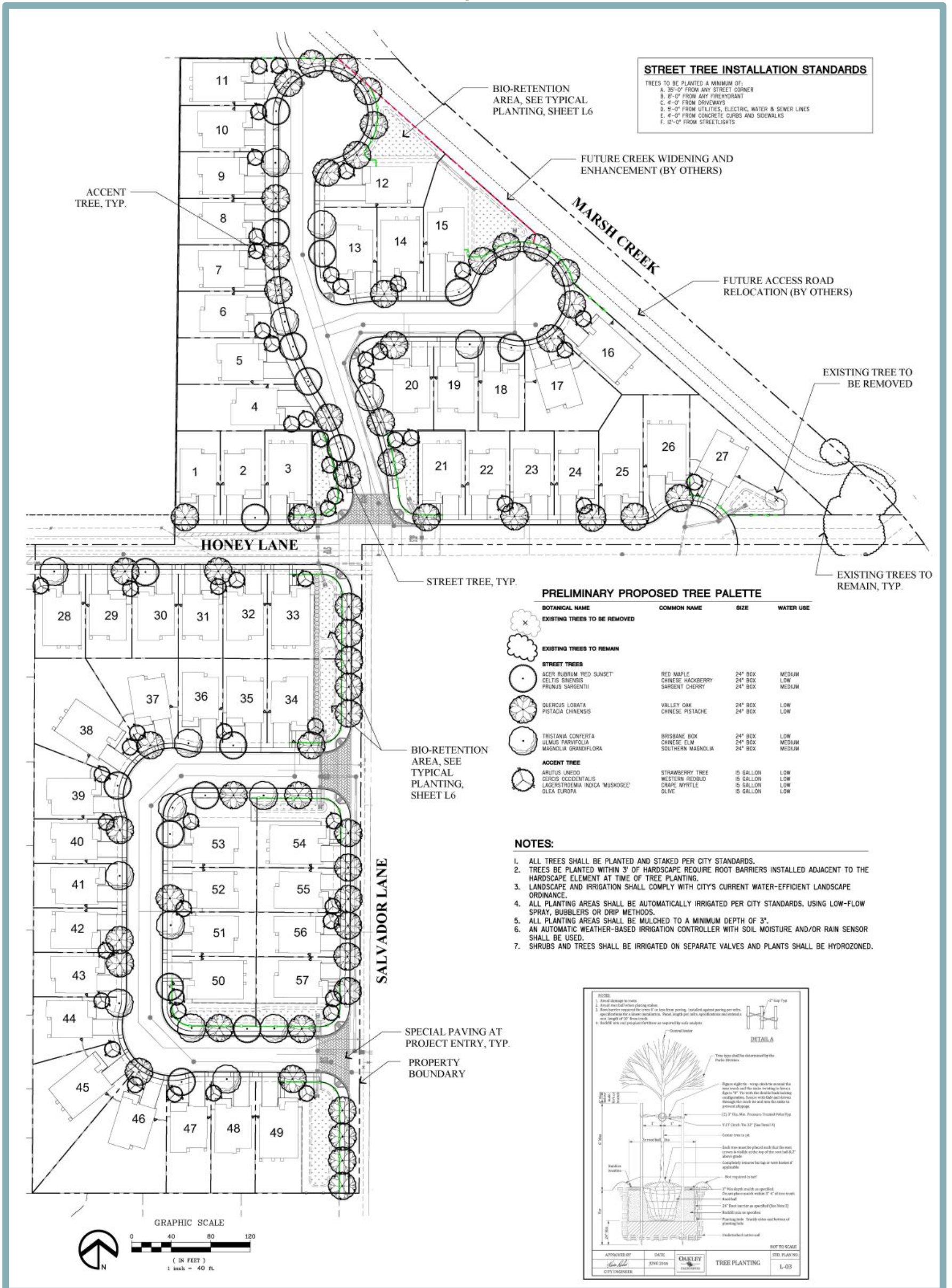


Figure 6
Preliminary Utility Plan

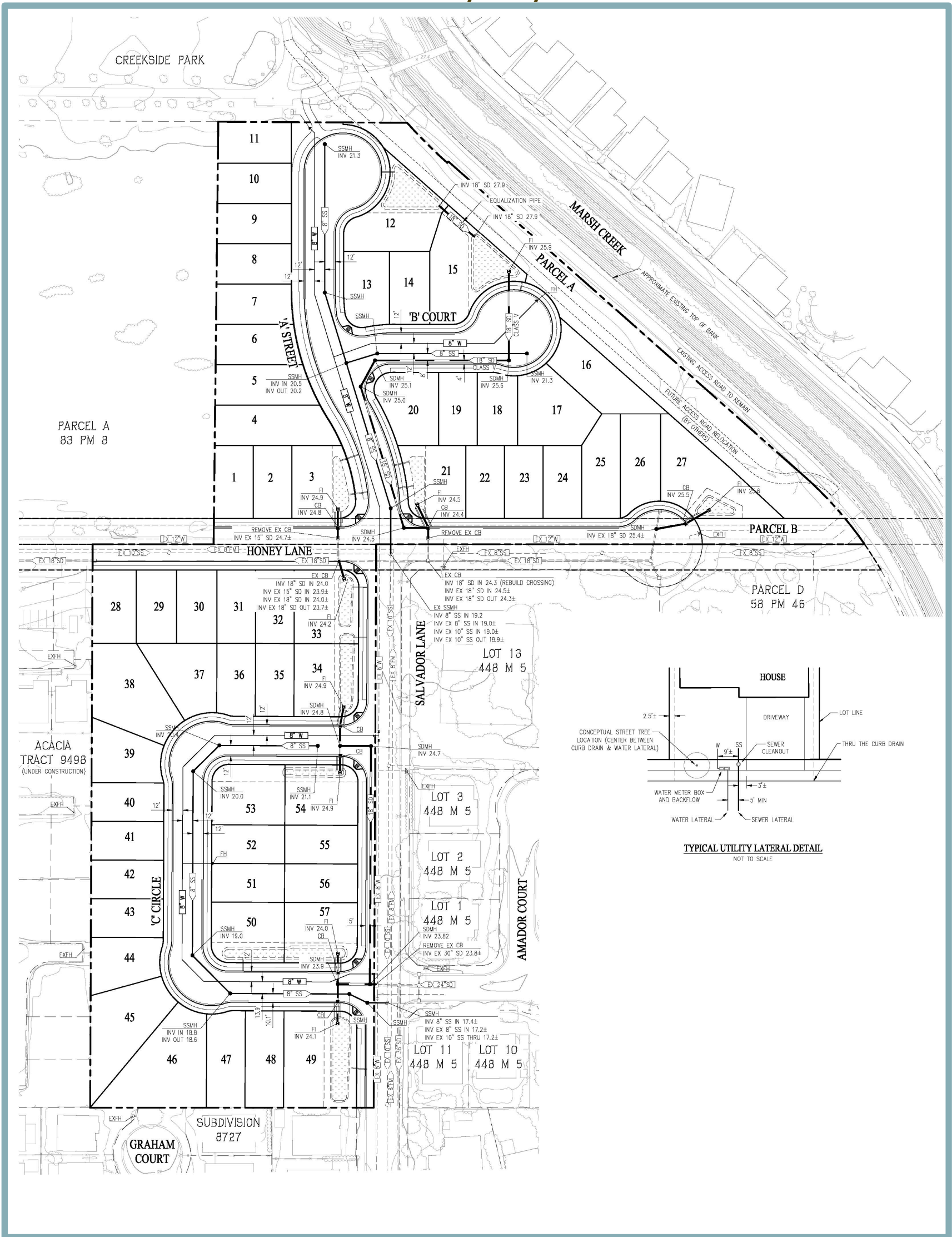
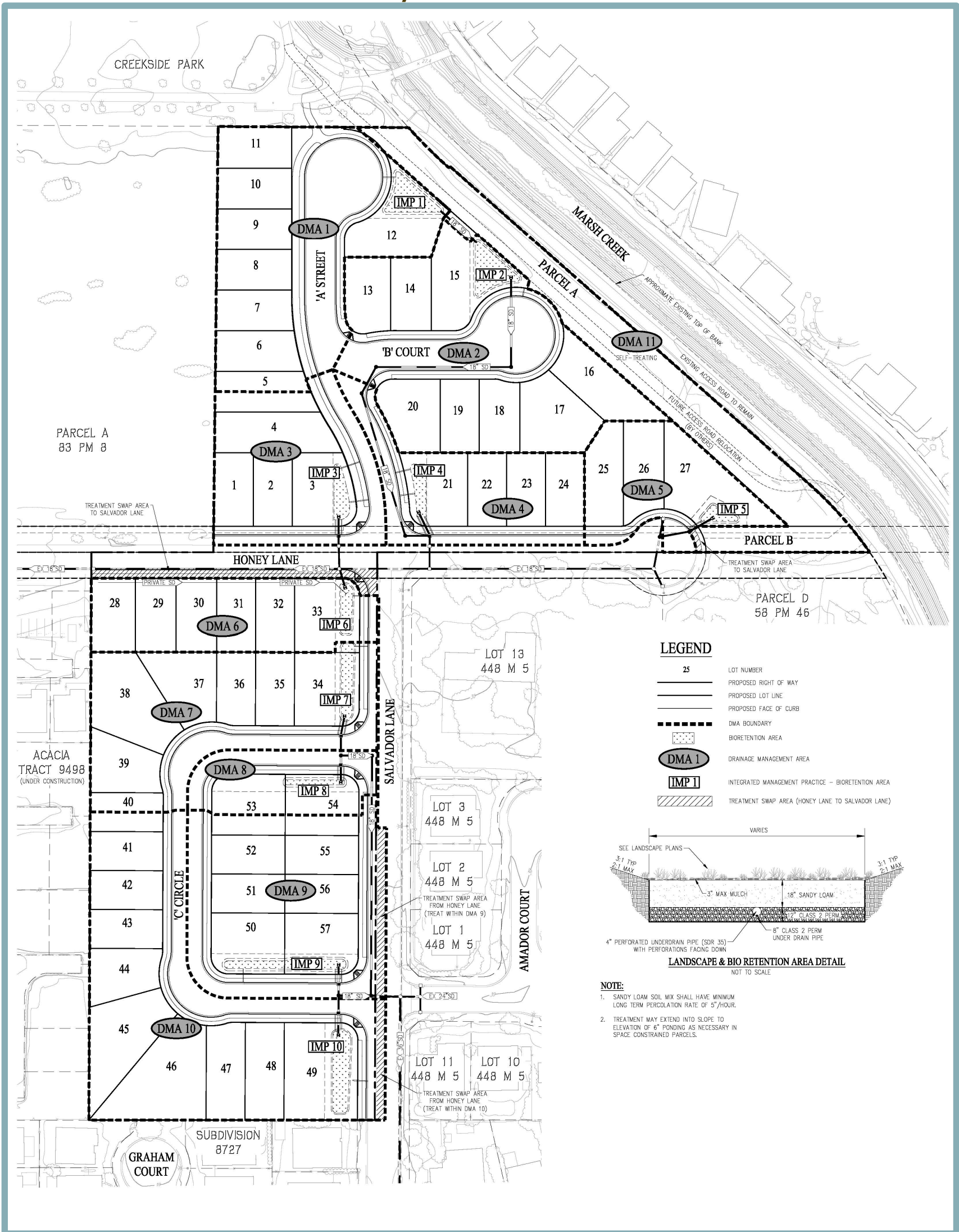


Figure 7
Preliminary Stormwater Control Plan



Design Review

Per Section 9.1.1604 of the City's Municipal Code, the proposed project would be subject to Design Review by the City. Specifically, the site plan would be analyzed based on elements of design, development location, arrangement of all structures, and design in harmony with surrounding facilities. The purpose of the regulations is to allow design review of all developments, signs, buildings, structures, and other facilities in order to further enhance the City's appearance, and the livability and usefulness of properties.

Discretionary Actions

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

- Adoption of the Initial Study/Mitigated Negative Declaration;
- Adoption of the Mitigation Monitoring and Reporting Program;
- Rezone of the site from R-6 District to P-1 District;
- Approval of a Vesting Tentative 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.

I. AESTHETICS. <i>Would the project:</i>	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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion

a. 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. In general, a project’s impact to a scenic vista would occur if development of the project would substantially change or remove a scenic vista. A scenic vista includes any such areas designated by a federal, State, or local agency. Scenic vistas in the City of Oakley, as defined by the City’s General Plan, include natural landscape features such as the Delta, Dutch Slough, Marsh Creek, the Contra Costa Canal, agricultural and other open space lands, as well as views of Mount Diablo.¹ Views of the Delta, Dutch Slough, Contra Costa Canal, and Mount Diablo are not available from the project site.

Marsh Creek runs along the eastern boundary of the Northern Parcel and is visible from the Marsh Creek Regional Trail, which runs along the eastern bank of the creek. However, public views of Marsh Creek from the Marsh Creek Regional Trail would not be obstructed by development of the proposed project. In addition, the stretch of Marsh Creek that extends along the eastern boundary of the project site is entirely surrounded by development and, thus, is not likely to be considered a natural landscape feature. Furthermore, because the proposed project would be consistent with the General Plan land use designation for the site, potential impacts to scenic vistas and visual character associated with future development of the project site were already evaluated and considered in the General Plan EIR analysis, which concluded that the General Plan’s goals, policies, and programs would mitigate any potential impacts on the aesthetic qualities inherent in the Planning Area, which included the incorporated City limits and two expansion areas, to a less-than-significant level.²

¹ City of Oakley. *City of Oakley General Plan* [pg. 6-24]. Adopted January 11, 2022.

² City of Oakley. *City of Oakley 2020 General Plan Draft Environmental Impact Report* [pg. 3-24]. September 2002.

Given that impacts related to scenic vistas associated with development of the project site have already been anticipated and analyzed in the City's General Plan EIR, a **less-than-significant** impact would occur.

- b. According to the California Scenic Highway Mapping System, a portion of SR 4 and SR 160 are listed as eligible for State Scenic Highway designation, but are not officially designated as State Scenic Highways.³ The project site is located approximately three miles east of SR 4 and approximately 3.8 miles southeast of SR 160. Views of the project site from either highway are not currently available due to the distance and surrounding urban development. Because the project site is not visible from either highway, the project would not have an adverse effect on the foregoing scenic resources from a State scenic highway.

Therefore, development of the proposed project 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 project site is located within an urbanized area of the City. Therefore, the applicable CEQA consideration is whether the project would conflict with applicable zoning and other regulations related to scenic quality.

As noted previously, the proposed project would require approval of a Rezone from R-6 to P-1 District. The purpose of the P-1 District is to allow diversification in the relationship of various uses, buildings, structures, lot sizes, and open spaces, and approval of the proposed Rezone would ensure compatibility with the surrounding land uses. Therefore, the proposed Rezone would contribute to the consistency of scenic quality in the project area. Following approval of the Rezone, the proposed project would comply with the adopted Final Development Plan of the P-1 District for the project site, which would include development standards. Furthermore, it is noted that the proposed residential development is consistent with the development type allowed in the existing R-6 District.

Implementation of the proposed project would also require Design Review, which is a City regulation related to scenic quality. Design Review would ensure that the aesthetic and architectural design of the development be compatible with surrounding development. The proposed project would include landscaping features at the project site frontage and within the project site that would be similar to existing features in the development to the west of the site, and proposed residences would be designed in keeping with the surrounding residential land uses.

Based on the above, the proposed project would not conflict with applicable zoning and other regulations governing scenic qualities, and a **less-than-significant** impact would occur.

- d. The only existing sources of light on the project site are the one on-site single-family residence and ancillary building. Therefore, redevelopment of the project site with 57 residences would add new sources of light and glare to the site, where minimal sources currently exist. The proposed project is anticipated to include street lights along the internal roadways and along the project site frontage, as well as interior lights spilling from

³ California Department of Transportation. *California State Scenic Highway System Map*. Available at: <https://www.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aaca>. Accessed January 2022.

the windows of future residences. In addition, the proposed project would generate vehicle trips which, in turn, would create sources of light from vehicle headlights. As previously discussed, the project site is surrounded by existing development including similar land uses. Light and glare associated with the proposed project would be expected to be similar to that of the surrounding area.

Furthermore, pursuant to Section 9.1.1604 of the City's Municipal Code, the project would be required to undergo a Design Review to ensure that development of the project would be in compliance with the Residential Design Guidelines, which establishes the City's standard for residential street lights and limits residential lighting for security purposes. In addition, because the proposed project would be consistent with the General Plan land use designation for the site, the impacts of new sources of light or glare associated with future development of the project site were already evaluated and considered in the General Plan EIR analysis. Therefore, any creation of new sources of light and glare by the future project would be considered a ***less-than-significant*** impact.

II. AGRICULTURE AND FOREST RESOURCES.	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<i>Would the project:</i>				
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. Per the Farmland Mapping and Monitoring Program, the project site is designated as “Farmland of Local Importance.”⁴ The project site does not contain, and is not located adjacent to, Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. In addition, the project site is not currently used for agricultural purposes, does not support forest land, and the site is entirely surrounded by land designated Urban and Built-Up Land. As a result, it is unlikely the project site would be used as farmland. Overall, development of the proposed project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use or result in the loss of forest land to non-forest use. Thus, a **less-than-significant** impact would occur as a result of the proposed project.
- b. The project site is currently zoned R-6 District; thus, the site is not zoned for agricultural use. Additionally, the site is not under a Williamson Act contract.⁵ Therefore, the proposed project would not conflict with existing zoning for agricultural use or conflict with a Williamson Act contract, and **no impact** would occur.
- c,d. The project area 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]). Therefore, the proposed project

⁴ California Department of Conservation. *California Important Farmland Finder*. Available at: <https://maps.conservation.ca.gov/dlrp/ciff/>. Accessed February 2022.

⁵ Contra Costa Conservation and Development. *2016 Agricultural Preserves Map*. Available at: <https://www.contracosta.ca.gov/DocumentCenter/View/882/Map-of-Properties-Under-Contract>. Accessed December 2021.

would have ***no impact*** with regard to conversion of forest land or any potential conflict with forest land, timberland, or Timberland Production zoning.

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

Discussion

a,b. The City of Oakley 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.

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 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. The BAAQMD’s established significance thresholds associated with development projects 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), are listed in Table 1. By exceeding the BAAQMD’s mass emission thresholds for ROG, NO_x, PM₁₀, or PM_{2.5}, a project would be considered to conflict with or obstruct implementation of the BAAQMD’s air quality planning efforts.

Table 1 BAAQMD Thresholds of Significance			
Pollutant	Construction	Operational	
	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/day)	Maximum Annual Emissions (tons/yr)
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.

Emissions of particulate matter can be split into two categories: fugitive emissions and exhaust emissions. 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.

The proposed project’s construction and operational emissions were quantified using the California Emissions Estimator Model (CalEEMod) software 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, vehicle mix, trip length, average speed, etc. Where project-specific information is available, such information is applied in the model. The proposed project’s modeling assumed the following:

- Construction would begin in July 2022 and occur over approximately four years;
- Demolition would involve the removal of 1,328 sf of building material;
- Grading would involve the import of 11,400 cubic yards of soil;
- Operational trip generation rates were updated to 9.43 vehicle trips per unit, consistent with the project-specific Traffic Impact Assessment Memorandum;
- None of the proposed units would include fireplaces (wood-burning or natural gas);
- The project would comply with the MWELO and the 2019 CALGreen Code; and
- The project would comply with all applicable provisions of the 2019 California Building Standards Code (CBSC), including meeting 100 percent of electricity demand through on-site renewable energy generation.

The proposed project’s estimated emissions associated with construction and operations are presented and discussed in further detail below. A discussion of the proposed project’s

contribution to cumulative air quality conditions is provided below as well. All CalEEMod modeling results are included as Appendix A to this IS/MND.

Construction Emissions

According to the CalEEMod modeling results, buildout of 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 construction emissions would be below the applicable thresholds of significance for ROG, NO_x, PM₁₀, and PM_{2.5}.

Table 2			
Maximum Unmitigated Construction Emissions (lbs/day)			
Pollutant	Construction Emissions	Threshold of Significance	Exceeds Threshold?
ROG	3.07	54	NO
NO _x	25.93	54	NO
PM ₁₀ *	0.15	82	NO
PM _{2.5} *	10.14	54	NO
Notes: * Denotes emissions from exhaust only. BAAQMD does not have adopted PM thresholds for fugitive emissions.			
Sources: CalEEMod, February 2022 (see Appendix A).			

All projects within the jurisdiction of the BAAQMD are required to implement all of the BAAQMD’s BCMMs, 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 Title 13, Section 2485 of CCR). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer’s specifications. All equipment shall be checked by a certified 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 further minimize construction-related emissions.

Overall, because the proposed project would be below the applicable thresholds of significance for construction emissions, project construction would not result in a significant air quality impact.

Operational Emissions

According to the CalEEMod results, buildout of the proposed project would result in maximum unmitigated operational criteria air pollutant emissions as shown in Table 3. As shown in the table, operations of the proposed project would be below the applicable thresholds of significance. Thus, operations of the project would not be considered to conflict with air quality plans during project operations.

Table 3 Maximum Unmitigated Operational Emissions					
Pollutant	Proposed Project Emissions		Threshold of Significance		Exceeds Threshold?
	lbs/day	tons/yr	lbs/day	tons/yr	
ROG	4.09	0.71	54	10	NO
NO _x	1.82	0.31	54	10	NO
PM ₁₀ *	0.07	0.01	82	15	NO
PM _{2.5} *	0.07	0.01	54	10	NO
Note: * Denotes emissions from exhaust only. BAAQMD does not have adopted PM thresholds for fugitive emissions.					
Source: CalEEMod, February 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 both construction-related and operational emissions below the applicable thresholds of significance, construction and operations of the project would not be expected to result in a cumulatively considerable contribution to the region’s existing air quality conditions.

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 construction and operations of the proposed project would result in emissions below the applicable thresholds of significance, the project would not be considered to conflict with or obstruct implementation of regional air quality plans. Therefore, the proposed project would not conflict with or obstruct implementation of the applicable air quality plans, violate any air quality standards or contribute substantially to an existing or projected air quality violation, or result in a cumulatively considerable net increase in any criteria air pollutant, and impacts would be considered **less than significant**.

- 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. The nearest sensitive uses include the single-family residences located east, west, and south of the project site boundary, with the closest located approximately 55 feet from the site boundary.

The major pollutant concentrations of concern are localized carbon monoxide (CO) emissions, TAC, and criteria pollutants, 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.

To provide a conservative indication of whether a project would result in localized CO emissions that would exceed the applicable threshold of significance, 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.).

While BAAQMD has established the foregoing screening criteria for potential impacts, it should be noted that the SFBAAB has been in attainment of California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS) for CO for more than 20 years.⁶ Due to the continued attainment of CAAQS and NAAQS, and advances in vehicle emissions technologies, the likelihood that any single project would create a CO hotspot is minimal. With regard to the proposed project, according to the Traffic Study prepared by TJKM, the proposed project is expected to generate 529 daily vehicle trips, 39 of which would be during the AM peak hour, and 53 during the PM peak hour.⁷ The addition of 92 total peak hour trips per day generated by the proposed project is not anticipated to increase traffic volumes at any nearby intersections to more than 44,000 vehicles per hour. Furthermore, areas where vertical and/or horizontal mixing is limited due to tunnels, underpass, or similar features do not exist in the project area. Therefore, based on the BAAQMD's screen 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 would not expose sensitive receptors to excess concentrations of TACs.

Short-term, construction-related activities could result in the generation of TACs, specifically DPM, from on-road haul trucks and off-road equipment exhaust emissions. However, as discussed above, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project. Health risks are typically associated with exposure to high concentrations of TACs over extended periods of time (e.g., 30 years or greater), whereas the construction period associated with the proposed project would likely be limited to approximately four years. All construction equipment and operation thereof would be regulated per the In-Use Off-Road Diesel

⁶ Bay Area Air Quality Management District. *Air Quality Summary Reports*. Available at: <http://www.baaqmd.gov/about-air-quality/air-quality-summaries>. Accessed March 2020.

⁷ TJKM. *Traffic Study for 463 and 560 Honey Lane in Oakley, California*. November 11, 2021.

Vehicle Regulation, which is intended to help reduce emissions associated with off-road diesel vehicles and equipment, including DPM. Project construction would also be required to comply with all applicable BAAQMD rules and regulations, particularly associated with permitting of air pollutant sources.

During construction, only portions of the project site would be disturbed at a time. Operation of construction equipment would occur on such portions of the site intermittently throughout the course of a day over the overall construction period. Because construction equipment on-site would not operate for any long periods of time and would be used at varying locations within the site, associated emissions of DPM would not occur at the same location (or be evenly spread throughout the entire project site) for long periods of time. Due to the temporary nature of construction and the relatively short duration of potential exposure to associated emissions, sensitive receptors in the area would not be exposed to pollutants for a permanent or substantially extended period of time. Furthermore, any one nearby sensitive receptor would be exposed to varying concentrations of DPM emissions throughout the construction period. According to BAAQMD, research conducted by CARB indicates that DPM is highly dispersive in the atmosphere. Thus, emissions at the project site would be substantially dispersed at the nearest sensitive receptors, and the concentration of DPM at the nearest sensitive receptors would be lower than the concentration of DPM at the source of emissions. Finally, the project applicant intends to use a construction fleet that includes all Tier 4 equipment engines.⁸ Such engines are the least emissions-intensive option available and, as a result, emissions of DPM from the proposed project would be substantially reduced as compared to construction of a similar project using non-Tier 4 engines.

Considering the limited nature of construction activities, the regulated and intermittent nature of the operation of construction equipment, the highly dispersive nature of DPM, and the distance of the nearest sensitive receptor from the project site, the likelihood that any one sensitive receptor would be exposed to high concentrations of DPM for any extended period of time, during development the project, would be low. For the aforementioned reasons, project construction would not be expected to expose sensitive receptors to substantial pollutant concentrations.

Criteria Pollutants

The BAAQMD thresholds of significance were established with consideration given to the health-based air quality standards established by the NAAQS and CAAQS, and are designed to aid the district in achieving attainment of the NAAQS and CAAQS.⁹ Although the BAAQMD's thresholds of significance are intended to aid achievement of the NAAQS and CAAQS for which the SFBAAB is in nonattainment, the thresholds of significance do not represent a level above which individual project-level emissions would directly result in public health impacts. Nevertheless, a project's compliance with BAAQMD's thresholds of significance provides an indication that criteria pollutants released as a result of project implementation would not inhibit attainment of the health-based regional NAAQS and CAAQS. Because project-related emissions would not exceed the BAAQMD's thresholds, and, thus, would not inhibit attainment of regional NAAQS and CAAQS, the criteria

⁸ The assumption that all construction equipment engines would be Tier 4 was not applied in CalEEMod in order to present the most conservative analysis, and to allow for flexibility, should such equipment not be available at the time that construction initiates.

⁹ Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines*. May 2017.

pollutants emitted during project implementation would not be anticipated to result in measurable health impacts to sensitive receptors. Accordingly, the proposed project would not expose sensitive receptors to excess concentrations of criteria pollutants.

Conclusion

Based on the above discussion, the proposed project would not expose any sensitive receptors to substantial concentrations of pollutants, including localized CO, TACs, or criteria pollutants, during construction or operation. Therefore, the proposed project would result in a **less-than-significant** impact related to the exposure of sensitive receptors to substantial pollutant concentrations.

- d. 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 questions 'a' through 'c' above. Therefore, the following discussion focuses on emissions of odors and dust.

Per the BAAQMD CEQA Guidelines, odors are generally regarded as an annoyance rather than a health hazard.¹⁰ 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 the hours of 7:30 AM to 7:00 PM on weekdays and 9:00 AM to 7:00 PM on weekends and holidays per Section 4.2.208 of the City of Oakley 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.

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 until such time that citizen complaints have not been received by the APCO for one year. The limits of Regulation 7 become applicable again when the APCO receives odor complaints from five

¹⁰ Bay Area Air Quality Management District. *California Environmental Quality Act Air Quality Guidelines* [pg. 7-1]. May 2017.

or more complainants within a 90-day period. Thus, although not anticipated, if odor complaints are made after the proposed project is developed, the BAAQMD would ensure that such odors are addressed, and any potential odor effects are minimized or eliminated.

With respect to dust, as noted previously, 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 does not result in substantial emissions of dust. Although the project would require soil hauling, all haul trucks would be covered to minimize emissions of fugitive dust during transport. 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. Thus, project operations would not include sources of dust that could adversely affect a substantial number of people.

For these reason, construction and operation of the proposed project would not result in emissions (such as those leading to odors) adversely affecting a substantial number of people, and a ***less-than-significant*** impact would occur.

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

Discussion

The following discussion based primarily on a Planning Survey Report (PSR), prepared by Live Oak Associates, Inc. for the proposed project.¹¹ The PSR is included as Appendix B to this IS/MND.

- a,f. Currently, a portion of the Southern Parcel is developed with one 1,328 sf single-family residence, as well as an associated ancillary structure, septic tank, well, and utility poles. The entire Northern Parcel and the remainder of the Southern Parcel consist of undeveloped land with ruderal vegetation. Approximately 23 trees exist on the project site.

Special-status species include those 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, 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

¹¹ Live Oak Associates, Inc. *Planning Survey Report*. November 12, 2021.

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. Species that meet the definition of rare, threatened, or endangered under Section 15380 of the CEQA guidelines are also considered special-status species. In addition, plant species on California Native Plant Society (CNPS) categories 1A, 1B, 2B, 3, and 4 are considered special-status plant species and are protected under CEQA.

The project site is located within the boundaries of the East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan (ECCCHCP/NCCP), which is intended to provide an effective framework to protect natural resources in the County, including special-status species. Raney Planning & Management, Inc., conducted a search of the California Natural Diversity Database (CNDDDB) for the project site quadrangle, Brentwood. Based on the results of the CNDDDB search, 11 potential special-status wildlife species and eight potential special-status plant species could occur within the vicinity of the project site (see Appendix C). Of the 19 potential species that could occur within the vicinity of the project site, eight species (four special-status wildlife species and four special-status plant species) were covered under the ECCCHCP/NCCP and 11 species (seven special-status wildlife species and four special-status plant species) were not covered.

In February 2015, the East Contra Costa County Habitat Conservancy prepared an ECCCHCP/NCCP Assessment of Plan Effects on CEQA Species.¹² 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 impact could occur related to the two aforementioned species. Raney Planning & Management, Inc. conducted a separate search of the CNDDDB and did not identify any known occurrences of Lime Ridge navarretia or Lime Ridge eriastrum within the project site or immediate vicinity. According to the results of the CNDDDB search, the nearest documented occurrence of Lime Ridge navarretia or Lime Ridge eriastrum is approximately 17 miles southwest of the project site and, therefore, implementation of the proposed project 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

¹² H.T. Harvey & Associates. *East Contra Costa County Habitat Conservation Plan – Assessment of Plan Effects on CEQA Species*. February 17, 2015.

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.

In compliance with the ECCCHCP/NCCP, a PSR was prepared for the proposed project by Live Oak Associates, Inc., which included all species covered under the ECCCHCP/NCCP. Per the PSR, approximately 9.64 acres of the site are categorized by the Grassland (Ruderal) land cover type, 0.93 acres of the site are considered Developed (Urban), and 0.01 acres of the site are categorized by Uncommon Landscape Feature (Potential Nest Sites). Based on the land cover types found on-site, Live Oak Associates conducted planning-level surveys on the project site for western burrowing owl, Swainson's hawk, and golden eagle. In addition, Live Oak Associates conducted a search of the CNDDDB for the project site quadrangle, Brentwood. 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 searches, plant species did not warrant further consideration due to the absence of potentially suitable habitat for special-status plants within the project site. Based on the results of the CNDDDB search, three special-status wildlife species covered by the ECCCHCP/NCCP warranted further consideration and are presented further below.

Special-Status Wildlife

The on-site ruderal grassland and nearby trees could provide potential habitat for western burrowing owl (*Athene cunicularia*), Swainson's hawk (*Buteo swainsoni*), and golden eagle (*Aquila chrysaetos*). In addition, other avian species protected by the MBTA could use the existing grassland as foraging and potential nesting habitat.

Western Burrowing Owl

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 contains ruderal grassland within the range of western burrowing owl and the CNDDDB search included records of the species within 500 feet of the project site. The nearest record of burrowing owl in the CNDDDB search area is approximately 0.5-mile northwest of the project site. As part of the PSR, the site was inspected for burrowing owls and ground squirrel burrows with evidence of burrowing owl occupancy (i.e., white wash, pellets, feathers). Ground squirrels and their burrows were observed during the survey. However, burrowing owls or burrows with evidence of burrowing owl occupancy were not observed during the survey. Nonetheless, because suitable habitat for western burrowing owl exists 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 could result in an adverse impact to the species.

Swainson's Hawk

Swainson's hawk is a summer resident and migrant in California's Central Valley and scattered portions of the southern California interior. Areas typically used for nesting include the edge of narrow bands of riparian vegetation, isolated patches of oak woodland, lone trees, planted and natural trees associated with roads, farmyards and sometimes adjacent residential areas. Foraging occurs in open habitats, including grasslands, open woodlands, and agricultural areas.

Per the PSR, large trees within the project site area provide potentially suitable nesting habitat for Swainson's hawks, as well as several potential nest trees near and visible from the project site. As part of the PSR, trees on the site and visible from the site were inspected for raptor stick nests. Raptor stick nests were not observed in the on-site trees or in trees visible from the site. The site could also potentially provide foraging habitat for Swainson's hawk. A single Swainson's hawk was observed flying over the project site during the field survey; however, the Swainson's hawk was not observed landing in any trees in the site's vicinity.

The CNDDDB search conducted as part of the PSR did not include any occurrences of Swainson's hawks within 1,000 feet of the project site. Nonetheless, 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 could result in direct take or nest abandonment, which would be considered an adverse impact.

Golden Eagle

Golden eagles are fairly adaptable in habitat but often reside in areas with few shared ecological characteristics, such as mountains and cliffs. In addition, golden eagles tend to avoid developed areas. The project site contains ruderal grassland that is located within the range of the golden eagle.

As part of the PSR, trees on the site, and visible from the site, were inspected for raptor stick nests. Raptor stick nests were not observed in the on-site trees or in trees visible from the site. Golden eagles were not observed and the CNDDDB search did not include any occurrences of golden eagles within a five-mile radius of the project site. In addition, the species typically nests more often on cliffs in remote natural areas than in trees near urban areas. Nonetheless, 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 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 other migratory birds protected by the MBTA for nesting. Such trees would be removed as part of the proposed project. 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 or near the project 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.¹³ 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 of Swainson's hawks and golden eagles are occupied. If nests 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 (western burrowing owl, golden eagle, and Swainson's hawks) 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. Conservation Measure 1.12 Implement Best Management Practices for Rural Road Maintenance and Conservation Measure 1.14 Design Requirements for Covered Roads Outside of the UDA of the ECCCHCP/NCCP incorporate avoidance guidelines for compliance with the MBTA. Because the project would comply with all ECCCHCP/NCCP requirements, the project would also comply with the provisions of the MBTA.

Additionally, the proposed project would be subject to pay all applicable fees according to the Fee Zone Map of the ECCCHCP/NCCP prior to construction and in compliance with Section 9.2.712 of the Oakley Municipal Code. The developer 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 owls, Swainson's hawks, and golden eagles have the potential to occur on-site. However, the project would comply with ECCCHCP/NCCP requirements, and pre-construction surveys would be required for western burrowing owl, Swainson's hawk, and golden eagle. Although the site and surrounding area contains suitable nest trees for nesting raptors and migratory birds protected by the MBTA, the project would be required to comply with the ECCCHCP/NCCP's Applicable Avoidance and Minimization Measures for western burrowing owl, Swainson's hawk, golden eagle, and nesting and migratory birds. The proposed project would comply with all applicable ECCCHCP/NCCP requirements. Thus, the proposed project would not 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 **less-than-significant** impact would result.

- b,c. According to the PSR, the site consists of ruderal grassland habitats and does not contain riparian habitat or other sensitive natural communities, including wetlands, or potentially jurisdictional waters of the State. Although a detention basin is proposed within the 75-foot setback of Marsh Creek and would impact 0.29 acre of ruderal vegetation, the detention basin is an allowed use within the setback. Furthermore, the project would be

¹³ East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan*. October 2006.

required to comply with ECCCHCP/NCCP Conservation Measure 2.12, Wetland, Pond, and Stream Avoidance and Minimization, which includes measures to ensure the project will not impact Marsh Creek or downstream waters, as well as Conservation Measure 1.7, Establish Stream Setbacks, which require the project to establish a 75-foot setback from the western top of the Marsh Creek bank. Therefore, the proposed project would not have a substantial adverse effect on riparian habitat, sensitive natural communities, or federally protected wetlands, and a **less-than-significant** impact would occur.

- d. The project site is located in an urbanized area and is bordered by Creekside Park to the north; a CCCFCWCD maintenance trail, Marsh Creek, the Marsh Creek Regional Trail, and single-family residences to the east; single-family residences to the south; and undeveloped land and a vacant lot planned for residential development to the west. The project site would be set back 75-feet from the bank of Marsh Creek. The developed nature of the surrounding area precludes the use of the project site as a migratory corridor. Should Marsh Creek be used for fish and and/or amphibian migration, the proposed project would not affect such migration. Therefore, the project site and surrounding existing uses do not support any substantial wildlife movement corridors or wildlife nursery sites. As such, the project would not 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, and a **less-than-significant** impact would occur.
- e. A Preliminary Arborist Report was prepared for the proposed project by HortScience | Bartlett Consulting (see Appendix D).¹⁴ As previously noted, 23 trees currently exist on the project site, 20 of which would be removed as part of the project. According to the Preliminary Arborist Report, of the 20 trees to be removed, 18 are non-native trees and two are heritage trees. The non-native trees consist primarily of almond, California fan palm, sweetgum, Fruitless mulberry, Siberian elm, and blackwood acacia. The heritage trees to be removed consist of silver dollar gum eucalyptus and Monterey pine.

Section 9.1.1112 of the Municipal Code defines protected trees and heritage trees, and establishes requirements governing the removal of such. Section 9.1.1112 defines a protected tree as any tree adjacent to or part of a riparian habitat, foothill woodland, or oak savanna that measures 20 inches or larger and an indigenous tree that measures 40 inches or larger or as a California native oak that measures at least 50 inches in circumference (15.6 inches diameter).

According to the Preliminary Arborist Report, a total of four on-site trees meet the City's definition of heritage trees. Three silver dollar gum eucalyptus trees were identified in the southwestern corner of the Northern Parcel and one Monterey pine was identified in the center of the Northern Parcel. The Preliminary Arborist Report recommends the preservation of two silver dollar gum eucalyptus heritage trees, the removal of one silver dollar gum eucalyptus heritage tree because it is of low suitability, and the removal of the Monterey pine heritage tree because it may be impacted by development.

¹⁴ HortScience | Bartlett Consulting. *Preliminary Arborist Report, 463 and 560 Honey Lane, Oakley, California.* November 5, 2021.

Section 9.1.1112 of the City's Municipal Code requires that any protected trees that are to be removed shall be replaced. Therefore, replacement of the one silver dollar gum eucalyptus heritage tree and one Monterey pine heritage tree, which are planned for removal, would be ensured by Municipal Code Section 9.1.1112. However, without ensuring that the maintained trees are properly preserved, the project could potentially conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. Therefore, impacts could be considered **potentially significant**.

Mitigation Measure(s)

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

IV-1. Prior to the issuance of grading permits, the applicant shall retain a certified arborist to develop a tree preservation plan for protected trees in accordance with the recommendations presented in the Preliminary Arborist Report prepared for the project. The tree preservation plan shall be implemented throughout the construction period, and is anticipated to include, but not be limited to, the following practices:

- 1. Establish a Tree Protection Zone around each tree to be preserved. Trenching, excavation, construction, or storage of materials shall not occur within the Tree Protection Zone and underground services, including utilities, sub-drains, water, or sewer shall not be placed in the Tree Protection Zone;*
- 2. Any pruning shall be completed by a Certified Arborist or Tree Worker in accordance with ANSI standards;*
- 3. All tree work shall comply with the Migratory Bird Treaty Act, as well as a California Fish and Wildlife Code Section 3503-3513 to not disturb nesting birds. To the extent feasible, tree pruning and removal shall be scheduled outside the breeding season; and*
- 4. Work that is expected to encounter tree roots, such as excavation within the dripline, shall be approved and monitored by the Consulting Arborist.*

The tree preservation plan shall be submitted to the Community Development Department for review and approval.

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 primarily based on a Cultural Resources Study prepared for the proposed project by Tom Origer & Associates.¹⁵

- a. The Cultural Resources Study consisted of a literature review to identify any previously recorded cultural resources and a field survey, conducted on January 26, 2022, of the entire project site. On December 2, 2021, a records search of the California Historic Resources Information System (CHRIS) was completed by the Northwest Information Center (NWIC) for cultural resource site records and survey reports within the project site. The project site has not been subject to any previous cultural studies. Six studies have been conducted within a quarter mile of the site; however, based on such, cultural resources are not known to exist in the project site.

The field survey included surface examination and excavation using a hand-auger. The field survey confirmed that a total of two buildings exist within the project site on the Southern Parcel, including one single-family residence and one shed. According to County records, the two structures were constructed in 1988. According to the Cultural Resources Study, the single-family residence and associated ancillary building do not meet the age threshold for consideration as historic resources. As such, the buildings are not considered eligible for listing under the National Register of Historic Places (NRHP) and California Register of Historic Resources (CRHR).

Based on the above, development of the site would not cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5, and a **less-than-significant** impact would occur.

- b,c. As noted above, a record search of the CHRIS was conducted as part of the Cultural Resources Study. The search concluded that the project site has a high potential for identifying historic-period archaeological resources in the project area. However, the field survey did not indicate the presence of any archaeological resources. On January 31, 2022, the Native American Heritage Commission (NAHC) conducted a records search of the Sacred Lands File (SLF) which indicated that archaeological and other cultural resources are not known to be present in the project vicinity.

¹⁵ Tom Origer & Associates. *Cultural Resources Study for the Honey Creekside Project, Oakley, Contra Costa County, California*. February 7, 2022.

According to the Cultural Resources Study, the project site is underlain by Holocene-age dune sands and alluvial clays. Given that the project area dates to the Holocene Epoch (11,700 years ago to the present) and the project site is adjacent to Marsh Creek, the Cultural Resources Study determined that a high potential exists for buried resources to occur within the project site. While the project site has been subject to ground disturbance associated with past agricultural activities unknown archaeological resources, including human remains, have the potential to be uncovered during future ground-disturbing construction and excavation activities at the subject property. If previously unknown resources are encountered during construction activities, the proposed project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to CEQA Guidelines Section 15064.5 and/or disturb human remains, including those interred outside of dedicated cemeteries. Therefore, 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.

- V-1. *If buried archaeological, paleontological, and/or cultural resources are encountered during site grading or other site work, all such work shall be halted immediately within 100 feet of the discovery and the developer shall immediately notify the City of Oakley Planning Division of the discovery. In such case, the developer shall be required, at their own expense, to retain the services of a qualified archaeologist for the purpose of recording, protecting, or curating the discovery, as appropriate. The archaeologist shall be required to submit to the City of Oakley Planning Division for review and approval a report of the findings and method of curation or protection of the resources. Further grading or site work within the area of discovery would not be allowed until the preceding work has occurred.*

The foregoing requirements shall be noted on the project improvement plans, subject to review and approval by the City of Oakley Planning Division.

- V-2. *Pursuant to State Health and Safety Code §7050.5 (c) State Public Resources Code §5097.98, if human bone or bone of unknown origin is found during construction, all work shall stop within 100 feet of the find and the Contra Costa County Coroner shall be contacted immediately. If the remains are determined to be Native American, the Coroner shall notify the Native American Heritage Commission, who shall notify the person believed to be the most likely descendant. The most likely descendant shall work with the contractor to develop a program for re-interment of the human remains and any associated artifacts. Additional work is not to take place within 100 feet of the find until the identified appropriate actions have been implemented.*

VI. ENERGY. <i>Would the project:</i>	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 checked="" 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 checked="" 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 2019 California Green Building Standards Code (CALGreen Code), the Building Energy Efficiency Standards, and the City’s Strategic Energy Plan (SEP), 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 CALGreen Code (CCR Title 24, Part 11), is a portion of the CBSC, which became effective on January 1, 2020.¹⁶ 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 CALGreen Code standards regulate the method of use, properties, performance, types of materials used in construction, alteration repair, improvement and rehabilitation of a structure or improvement to property. The provisions of the CALGreen 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’ MWEL0, or a local ordinance, whichever is more stringent, to reduce outdoor water use;
- Diversion of 65 percent of construction and demolition waste from landfills;
- Mandatory use of low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board; and
- For some single-family and low-rise residential development developed after January 1, 2020, mandatory on-site solar energy systems capable of producing 100 percent of the electricity demand created by the residence(s). Certain residential developments, including those developments that are subject to substantial shading, rendering the use of on-site solar photovoltaic systems infeasible, are exempted from the foregoing requirement.

¹⁶ California Building Standards Commission. *California Green Building Standards Code*. 2019.

Building Energy Efficiency Standards

The 2019 Building Energy Efficiency Standards is a portion of the CBSC. Energy reductions relative to previous Building Energy Efficiency Standards are achieved through various regulations including requirements for the use of high-efficacy lighting, improved water heating system efficiency, and high-performance attics and walls. For residential buildings, compliance with the 2019 standards would use approximately seven percent less energy due to energy efficiency measures compared to homes built under the 2016 standards.¹⁷ The Building Energy Efficiency Standards require residential buildings that are three stories or less to include solar photovoltaic systems. Rooftop solar electricity generation would ensure future residences that are built under the 2019 standards further reduce energy consumption and result in about 53 percent less energy use than those residences built under the 2016 Building Energy Efficiency Standards.

Strategic Energy Plan

In the fall of 2015, the City of Oakley adopted a SEP to help meet State mandates for required energy use and GHG emission reductions.¹⁸ The SEP included six energy planning goals and priorities, including, but not limited to, improving energy performance to exceed Title 24 requirements for new construction and major renovations of the City facilities; exploring opportunities for energy efficiency, demand reduction, and/or clean self-generation measures; and exploring existing economic and fiscal criteria commonly used for the evaluation and implementation of energy use reduction and energy generation strategies.

Construction Energy Use

Construction of the proposed project would involve on-site energy demand and consumption related to use of oil in the form of gasoline and diesel fuel for construction worker vehicle trips, hauling and materials delivery truck trips, and operation of off-road construction equipment. In addition, diesel-fueled portable generators may be necessary to provide additional electricity demands for temporary on-site lighting, welding, and for supplying energy to areas of the site where energy supply cannot be met via a hookup to the existing electricity grid. Project construction would not involve the use of natural gas appliances or equipment.

All construction equipment and operation thereof would be regulated per the CARB's In-Use Off-Road Diesel Vehicle Regulation. The In-Use Off-Road Diesel Vehicle Regulation 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. In addition, as a means of reducing emissions, construction vehicles are required to become cleaner through the use of renewable energy resources. The In-Use Off-Road Diesel Vehicle Regulation would therefore help to improve fuel efficiency for equipment used in construction of the proposed project. Technological innovations and more stringent standards are being researched, such as multi-function equipment, hybrid equipment, or other design changes, which could help to further reduce demand on oil and limit emissions associated with construction.

¹⁷ California Energy Commission. *Title 24 2019 Building Energy Efficiency Standards FAQ*. November 2018.

¹⁸ City of Oakley. *Strategic Energy Plan*. Fall 2015.

The CARB prepared the 2017 Climate Change Scoping Plan Update (2017 Scoping Plan),¹⁹ 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 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.

Operational Energy Use

Following implementation of the proposed project, PG&E would provide electricity and natural gas to the project site. Energy use associated with operation of the proposed project would be typical of residential uses, requiring electricity and natural gas for interior and exterior building lighting, heating, ventilation, and air conditioning (HVAC), electronic equipment, machinery, refrigeration, appliances, security systems, and more. Maintenance activities during operations, such as landscape maintenance, would involve the use of electric or gas-powered equipment. In addition to on-site energy use, the proposed project would result in transportation energy use associated with vehicle trips generated by the proposed residential development.

The proposed project would be subject to all relevant provisions of the most recent update of the CBSC, including the CALGreen Code and the Building Energy Efficiency Standards. Adherence to the most recent CALGreen Code and the Building Energy Efficiency Standards would ensure that the proposed structures would consume energy efficiently through the incorporation of such features as efficient water heating systems, high performance attics and walls, and high efficacy lighting. As noted previously, pursuant to the CALGreen Code, residential structures three stories or less, including the proposed project, must include on-site solar energy systems sufficient to meet 100 percent of the residences' electricity demand.

Additionally, the proposed project would be consistent with the goals of the SEP, as the proposed project would comply with the latest CBSC standards regarding energy conservation, renewable energy resources, and green building standards.

With regard to transportation energy use, the proposed project would comply with all applicable regulations associated with vehicle efficiency and fuel economy. In addition, as

¹⁹ California Air Resources Board. *The 2017 Climate Change Scoping Plan Update*. January 20, 2017.

discussed in Section XVII, Transportation, of this IS/MND, the project site is not anticipated to substantially increase Vehicle Miles Traveled (VMT).

Conclusion

Based on the above, construction and operations 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 or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii. Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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

ai-ii. The project site does not contain any active or potentially active faults, nor is the site located within a State-designated Alquist-Priolo Fault Zone.²⁰ However, according to the City’s General Plan EIR, the City of Oakley is subject to seismic risk because the City is within the San Francisco Bay Area, an area of high seismicity.²¹

According to the Geotechnical Investigation prepared for the proposed project by Quantum Geotechnical, Inc (see Appendix E), regional earthquakes of moderate to high magnitude could cause seismic ground shaking at the project site.²² However, proper

²⁰ California Geologic Survey. *Seismic Hazard Zone Report for the Brentwood 7.5-Minute Quadrangle, Contra Costa County, California*. 2018.

²¹ City of Oakley. *City of Oakley 2020 General Plan Draft Environmental Impact Report* [pg. 3-161]. September 2002.

²² Quantum Geotechnical, Inc. *Preliminary Geotechnical Investigation on Proposed Residential Development at 453 and 560 Honey Lane, Oakley, California*. July 19, 2021.

engineering of the proposed buildings in compliance with the CBSC would ensure that the proposed project would not be subject to substantial risks related to seismic ground shaking. Projects designed in accordance with the CBSC 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 with the CBSC design standards is enforced through building plan review and approval by the City. Based on the above, the proposed project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault or strong seismic ground shaking. Thus, a **less-than-significant** impact would occur.

- a.iii.c. The proposed project's potential effects related to liquefaction, subsidence/settlement, and lateral spreading are discussed in detail below. Please refer to question 'aiv' for a discussion of potential effects related to landslides. As discussed therein, the project site is not located on a geologic unit or soil that is unstable and could potentially result in on- or off-site landslides, and impacts related to landslides would not occur.

The Geotechnical Investigation prepared for the project included a field reconnaissance on April 23, 2021; determination of the general seismicity of the site in accordance with the 2019 CBSC; and advancement of cone penetrometer tests (CPTs) at six locations throughout the project site.

Liquefaction and Subsidence/Settlement

Liquefaction is the temporary transformation of loose, saturated granular sediments from a solid state to a liquefied state as a result of seismic ground shaking. In the process, the soil undergoes transient loss of strength, which commonly causes ground displacement or ground failure to occur. Because saturated soils are a necessary condition for liquefaction, soil layers in areas where the groundwater table is near the surface have higher liquefaction potential than those in which the water table is located at greater depths. Additionally, loose unsaturated sandy soils have the potential to settle during strong seismic shaking. Liquefaction can often result in subsidence or settlement.

The project site is located within a State of California Seismic Hazard Zone for liquefaction.²³ In addition, the Geotechnical Investigation included an evaluation of the potential for soil liquefaction and settlement to occur during a seismic event. The study used in-situ soil parameters from CPT soundings to perform liquefaction and dynamic compaction analysis. The CPTs found 10 feet of medium dense sand and over 10 feet of firm silty clay, underlain by 20 feet of medium dense to dense sand. The CPTs also encountered firm/stiff clay from 40 feet to the maximum depth explored of 50 feet. The Geotechnical Investigation determined that the medium dense layers of sand found between 20 to 40 feet during the CPTs are potentially liquefiable. Based on the evaluation, ground surface settlements up to approximately three inches may result from liquefaction after a seismic event. However, the cohesionless soil above the groundwater table was generally dense and has little potential for dynamic settlement. Due to the potential for liquefaction to occur on-site, foundation subsidence or settlement may occur, and, without the implementation of mitigation, an impact could occur.

²³ California Department of Conservation. *California Earthquake Hazards Zone Application*. Available at: <https://maps.conservation.ca.gov/cgs/EQZApp/app/>. Accessed February 2022.

Lateral Spreading

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically, lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. Given that the project site does not contain any free faces, lateral spreading would not present a likely hazard at the site.

Conclusion

Based on the above, the proposed project would not be subject to substantial risks related to lateral spreading. However, the potential exists for liquefaction and associated subsidence/settlement to occur at the project site. Without implementation of mitigation, the proposed project could cause substantial adverse effects related to such. Thus, a **potentially significant** impact could occur.

Mitigation Measure(s)

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

VII-1. *Prior to approval of any grading permits, the project Civil Engineer shall show on the project plans that the project design adheres to all engineering recommendations provided in the site-specific Preliminary Geotechnical Investigation prepared for the proposed project by Quantum Geotechnical, Inc. Proof of compliance with all recommendations specified in the Geotechnical Investigation shall be subject to review and approval by the City Engineer.*

The project plans shall include, but not be limited to, engineering recommendations related to grading, surface and subsurface drainage, bio-filtration areas, foundations, miscellaneous concrete flatwork, retaining walls, pavement areas, utility trenches, and project review and construction monitoring.

The site demolition activities shall also specify that any underground structures, such as abandoned pipe lines, septic tanks, and leach fields, encountered during demolition and construction shall be properly removed, all excavations left open for backfilling, and loose material created by the demolition of existing structures and grubbing trees should be excavated and replaced as engineered fill.

aiv,d. The proposed project's potential effects related to landslides and expansive soils are discussed in detail below.

Landslides

Seismically-induced landslides are triggered by earthquake ground shaking. The risk of landslide hazard is greatest in areas with steep, unstable slopes. The project site is relatively flat and is not located near any slopes. Furthermore, per the California Geologic Survey, the site is not located within a designated seismic hazard zone for landslides.²⁴

²⁴ California Geologic Survey. *Seismic Hazard Zone Report for the Brentwood 7.5-Minute Quadrangle, Contra Costa County, California*. 2018.

Therefore, the proposed project would not be subject to landslide risks and would not expose people or structures to potential risk of loss, injury, or death involving landslides.

Expansive Soils

Expansive soils can undergo significant volume changes with changes in moisture content. Specifically, such soils shrink and harden when dried and expand and soften when wetted. If structures are underlain by expansive soils, foundation systems must be capable of withstanding the potential damaging movements of the soil. Per the Geotechnical Investigation prepared for the proposed project, expansive soils were not encountered at the site. Therefore, the project site is not located on expansive soil, as defined in Table 18-1B of the Uniform Building Code, and substantial direct or indirect risks to life or property due to expansive soils would likely not occur.

Conclusion

Based on the above, the proposed project would not be located on expansive soil and would not be subject to substantial risks related to landslides or expansive soils. Therefore, a **less-than-significant** impact would occur.

- b. The proposed project would include grading of the project site prior to construction of the proposed residences. During construction activities, topsoil would be exposed. Following development of the site, all exposed soils would be covered with impervious surfaces or landscaping and, thus, the potential for erosion to occur would not exist long-term.

Per the City of Oakley Municipal Code Sections 6.9.308 and 6.11.212, preparation of an Erosion Control Plan and Stormwater Pollution Prevention Plan (SWPPP) prior to construction activities and implementation of Best Management Practices (BMPs) during construction is required. The erosion control measures required by both the SWPPP and the Erosion Control Plan would ensure that the proposed project would not result in substantial erosion or the loss of topsoil. Therefore, the proposed project would not result in substantial soil erosion or the loss of topsoil, and a **less-than-significant** impact would occur.

- e. The proposed project would connect to existing City sewer services. Thus, the construction or operation of septic tanks or other alternative wastewater disposal systems would not be included as part of the project. Therefore, **no impact** regarding the capability of soil to adequately support the use of septic tanks or alternative wastewater disposal systems would occur.
- f. 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.

The City's General Plan indicates that few paleontological resources are known to occur within the City Planning Area.²⁵ In addition, portions of the surrounding area are developed and paleontological resources have not been encountered in the vicinity. Thus, existing paleontological resources are not expected to occur on the site. Nonetheless, the potential exists for previously unknown paleontological resources could exist within the project site. Ground-disturbing activity such as grading, trenching, or excavating associated with

²⁵ City of Oakley. *City of Oakley General Plan* [pg. 6-19. Adopted January 11, 2022.

implementation of the proposed project would have the potential to disturb or destroy such resources if present. 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 impact to a *less-than-significant* level.

VII-2. *Implement Mitigation Measures V-1 and V-2.*

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

Discussion

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.

Implementation of the proposed project 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 BAAQMD developed a threshold of significance for project-level GHG emissions in 2009. The BAAQMD’s approach to developing the threshold was to identify a threshold level of GHG emissions for which a project would not be expected to substantially conflict with existing California legislation. At the time that the thresholds were developed, the foremost legislation regarding GHG emissions was AB 32, which established an emissions reduction goal of reducing statewide emissions to 1990 levels by 2020.²⁶ The GHG emissions threshold of significance recommended by BAAQMD to determine compliance with AB 32 is 1,100 MTCO₂e/yr or 4.6 MTCO₂e per service population per year (MTCO₂e/SP/yr). If a project generates GHG emissions above the BAAQMD’s adopted threshold level, the project is considered to generate significant GHG emissions and conflict with AB 32. It is noted that the goal year for AB 32 (2020) has elapsed. Nonetheless, the aforementioned thresholds are still applicable in determining the significance of project-related GHG emissions under CEQA, and represent the BAAQMD’s only adopted GHG thresholds at the time of analysis.

²⁶ Bay Area Air Quality Management District. *California Environmental Quality Act Guidelines Update: Proposed Thresholds of Significance*. May 2017.

The foregoing threshold is intended for use in assessing operational GHG emissions only. Construction of a proposed project would result in GHG emissions over a short period of time in comparison to the operational lifetime of the project. To capture the construction-related GHG emissions due to buildout of the proposed project, such emissions are amortized over the anticipated project lifetime and added to the operational GHG emissions. Given that construction-related GHG emissions would not occur concurrently with operational emissions and would cease upon completion of construction activities, combining the two emissions sources represents a conservative estimate of total project GHG emissions.

Since the adoption of BAAQMD's GHG thresholds of significance, the State legislature has passed AB 197 and Senate Bill (SB) 32, which builds off of AB 32 and establishes a statewide GHG reduction target of 40 percent below 1990 levels by 2030. Considering the legislative progress that has occurred regarding statewide reduction goals since the adoption of BAAQMD's standards, the emissions thresholds presented above would determine whether a proposed project would be in compliance with the 2020 emissions reductions goals of AB 32, but would not demonstrate whether a project would be in compliance with SB 32. In accordance with the changing legislative environment, the BAAQMD has begun the process of updating the District's CEQA Guidelines; however, updated thresholds of significance have not yet been adopted. In the absence of BAAQMD-adopted thresholds to assess a project's compliance with SB 32, the City has chosen to consider additional GHG emissions thresholds.

The BAAQMD has determined that projects with operational emissions equal to or less than 1,100 MTCO₂e/yr or 4.6 MTCO₂e/SP/yr would comply with the emission reductions target of 1990 levels by 2020 set forth by AB 32. SB 32 requires that by 2030 statewide emissions be reduced by 40 percent beyond the 2020 reduction target set by AB 32; therefore, in the absence of specific guidance from BAAQMD or the CARB, the City assumes that in order to meet the reduction targets of SB 32, a proposed project would be required to reduce emissions by an additional 40 percent beyond the emissions reductions currently required by BAAQMD for compliance with AB 32. Assuming a 40 percent reduction from current BAAQMD targets, adjusted for the projected population, a proposed project would be in compliance with SB 32 if the project's emissions did not exceed 660 MTCO₂e/yr or 2.6 MTCO₂e/SP/yr.

In addition to the quantitative thresholds described above, the City has also determined that a qualitative analysis assessing the project's compliance with the CARB's *California's 2017 Climate Change Scoping Plan* (2017 Scoping Plan) is warranted. The CARB's 2017 Scoping Plan establishes a strategy to meet California's 2030 GHG targets; accordingly, should the project be shown to comply with the 2017 Scoping Plan, the proposed project would be considered consistent with Statewide reduction targets for the year 2030. Based on recommendations from BAAQMD, a project's compliance with the local actions contained in Appendix B of the 2017 Scoping Plan may be used to assess a project's compliance with the 2017 Scoping Plan and, thus, consistency with SB 32.²⁷

By using the BAAQMD thresholds of significance for GHG, the updated SB 32 thresholds discussed above, and evaluating the project's consistency with applicable plans, the City

²⁷ Flores, Areana, Bay Area Air Quality Management District. Personal communication [phone], Jacob Byrne, Senior Associate/Air Quality Technician, Raney Planning & Management. September 17, 2019.

would comply with Section 15064.4(b)(3) of the CEQA Guidelines, which suggests that lead agencies consider the extent that the project would comply with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction of GHG emissions.

GHG Emissions Thresholds

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, as well as operational emissions, have been estimated using CalEEMod under the same assumptions discussed in Section III, Air Quality, of this IS/MND (see Appendix A).

The emissions estimates prepared for the proposed project determined that unmitigated construction of the project would result in total GHG emissions of 1,450.55 MTCO₂e over the entire construction period. In the analyses below, the construction GHG emissions are amortized over the anticipated 30-year lifetime of the proposed project.²⁸

Compliance with AB 32 and SB 32

As shown in Table 4, the project's total unmitigated annual GHG emissions in the first year of project operation, 2025, including amortized construction-related emissions, were estimated to be approximately 611.53 MTCO₂e/yr, which falls below the BAAQMD's 1,100 MTCO₂e/yr threshold of significance for consistency with AB 32 and 660 MTCO₂e/yr threshold of significance for consistency with SB 32. Therefore, the proposed project would not conflict with the emissions reduction targets of AB 32 and SB 32.

Table 4	
Unmitigated Annual Project GHG Emissions (2025)	
Source	Annual GHG Emissions (MTCO₂e/yr)
Operational GHG Emissions:	
<i>Area</i>	<i>0.71</i>
<i>Energy</i>	<i>123.20</i>
<i>Mobile</i>	<i>397.30</i>
<i>Waste</i>	<i>34.43</i>
<i>Water</i>	<i>7.55</i>
Amortized Construction GHG Emissions:	
	48.35
Total Annual GHG Emissions	611.53
BAAQMD AB 32 Threshold	1,100.00
Adjusted SB 32 Threshold	660.00
Exceeds Thresholds?	NO
<i>Source: CalEEMod, February 2022 (see Appendix A).</i>	

²⁸ South Coast Air Quality Management District. 2008. *Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold*. Available at: [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/ghgattachmente.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf). Accessed October 2020.

Consistency with 2017 Scoping Plan

Appendix B to the CARB’s 2017 Scoping Plan provides examples of potentially feasible mitigation measures that could be considered to assess a project’s compliance with the State’s 2030 GHG emissions reductions goals. Thus, general compliance with the Local Actions within the 2017 Scoping Plan could be considered to demonstrate the project’s compliance with SB 32. The project’s consistency with the applicable Local Actions within the 2017 Scoping Plan is assessed in Table 5 below.

Table 5	
Project Consistency with the 2017 Scoping Plan	
Suggested Measure	Consistency Discussion
Construction	
Enforce idling time restrictions for construction vehicles.	CARB’s In-Use Off-Road Vehicle Regulations include restrictions that limit idling time to five minutes under most situations. Construction fleets and all equipment operated as part of on-site construction activities would be subject to CARB’s idling restrictions. As such, the proposed project would be required to comply with this measure.
Require construction vehicles to operate with the highest tier engines commercially available.	The project applicant has not committed to using construction equipment that complies with the highest tier engines commercially available. As such, compliance with this measure is unknown at this time. However, construction-related emissions would not exceed any applicable BAAQMD thresholds of significance, and neither the City nor BAAQMD require further mitigation related to construction equipment.
Divert and recycle construction and demolition waste, and use locally-sourced building materials with a high recycled material content to the greatest extent feasible.	The CALGreen Code requires the diversion of construction and demolition waste, and the proposed project would be required to comply with the most up-to-date CALGreen Code. The project applicant has not committed to using locally-sourced building materials or materials with a high recycled content, and, thus, compliance with this portion of the suggested measure is uncertain at this time.
Minimize tree removal, and mitigate indirect GHG emissions increases that occur due to vegetation removal, loss of sequestration, and soil disturbance.	Any tree removal associated with the proposed project would be subject to the regulations set forth in Section 9.1.1112 of the City’s Municipal Code. As noted therein, any protected trees that are to be removed shall be replaced. Accordingly, because two heritage trees would be removed as part of the proposed project, the project would be required to replace the two removed trees, and the project would comply with the intent of this suggested measure.
Utilize existing grid power for electric energy rather than operating temporary gasoline/diesel powered generators.	The contractor would use existing grid electricity to the extent feasible. However, the possibility exists that temporary generators will be used for electricity in instances where grid electricity is not accessible. Overall, the project would be considered to generally comply with the suggested measure.
Increase use of electric and renewable fuel powered construction equipment and require renewable diesel fuel where commercially available.	The project applicant has not committed to the use of alternatively fueled construction equipment. Furthermore, the commercial availability of renewable diesel in the project area is currently unknown. Consequently,

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Table 5	
Project Consistency with the 2017 Scoping Plan	
Suggested Measure	Consistency Discussion
	compliance with this suggested measure is uncertain at this time.
Require diesel equipment fleets to be lower emitting than any current emission standard.	The project applicant has not committed to using diesel equipment fleets that are lower emitting than any current emission standards. As such, compliance with this measure is unknown at this time. However, construction-related emissions would not exceed any applicable BAAQMD thresholds of significance, and neither the City nor BAAQMD require further mitigation related to construction equipment.
Operations	
Comply with lead agency's standards for mitigating transportation impacts under SB 743.	As noted in Section XVII, Transportation, of this IS/MND, implementation of the project would result in a less-than-significant impact to VMT. As such, the proposed project would comply with this measure.
Require on-site EV charging capabilities for parking spaces serving the project to meet jurisdiction-wide EV proliferation goals.	Per the 2019 CALGreen Code, 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 2019 CALGreen Code would ensure that the proposed project provides sufficient EV charging infrastructure to comply with this suggested measure.
Dedicate on-site parking for shared vehicles.	This measure relates to multi-family residences and commercial land uses where separated parking areas are typically provided that would allow for the designation of preferential parking spaces. As such, the measure is not applicable to the proposed project.
Provide adequate, safe, convenient, and secure on-site bicycle parking and storage in multi-family residential projects and in non-residential projects.	The proposed project is a single-family residential development. Therefore, this measure does not apply.
Provide on- and off-site safety improvements for bike, pedestrian, and transit connections, and/or implement relevant improvements identified in an applicable bicycle and/or pedestrian master plan.	The proposed project would provide on-site pedestrian infrastructure, as well as frontage improvements along Honey Lane and Salvador Lane. In addition, the project would include development of an on-site trail, which would connect to the existing pathway north of the project site and provide pedestrian and bicycle access to Creekside Park and the Marsh Creek Regional Trail. Considering the project would provide pedestrian improvements, the proposed project would be generally consistent with the suggested measure.
Require on-site renewable energy generation.	The 2019 CBSC requires that residential structures that are three-stories or less in height be constructed with renewable energy systems sufficient to provide 100 percent of the electricity required for the residence. Future single-family residences would be subject to such requirements. Due to the CBSC's requirements regarding renewable energy systems for residential land uses, the proposed project would include on-site renewable energy generation and would comply with this measure.

(Continued on next page)

Table 5	
Project Consistency with the 2017 Scoping Plan	
Suggested Measure	Consistency Discussion
Prohibit wood-burning fireplaces in new development, and require replacement of wood-burning fireplaces for renovations over a certain size development.	The proposed project would not include fireplaces. Thus, the proposed project would comply with the suggested measure.
Require cool roofs and “cool parking” that promotes cool surface treatment for new parking facilities as well as existing surface lots undergoing resurfacing.	The 2019 CBSC contains requirements for the thermal emittance, three-year aged reflectance, and Solar Reflectance Index (SRI) of roofing materials used in new construction and re-roofing projects. Such standards, with which the project would be required to comply, would help to reduce heating and cooling costs associated with the proposed project. In addition, the proposed project would include 42 garages, which reduces the amount of exposed pavement surfaces. Therefore, surface lot heat effects would be reduced compared to provision of all necessary parking spaces in uncovered surface lots. Therefore, the proposed project would generally comply with the suggested measure.
Require solar-ready roofs.	The 2019 CBSC requires that new residential structures under three stories generate 100 percent of electricity needs from on-site solar. Therefore, the proposed project would comply with this suggested measure.
Require organic collection in new developments.	Per Chapter 20, Solid Waste Collection and Regulations, of the Municipal Code, the proposed project would be required to subscribe to a solid waste collection service. In addition, the City’s garbage provider offers green waste collection services. As such, future residents would have access to the organic collection service. Thus, the proposed project would include organic collection and the project would comply with the suggested measure.
Require low-water landscaping in new developments (see CALGreen Divisions 4.3 and 5.3 and the Model Water Efficient Landscape Ordinance [MWELo], which is referenced in CALGreen). Require water efficient landscape maintenance to conserve water and reduce landscape waste.	Landscaping within the project site would be required to comply with the CALGreen Code and all water efficiency measures therein, including the MWELo regulations adopted by the City of Oakley. Accordingly, the proposed project is anticipated to comply with this measure.
Achieve Zero Net Energy performance building standards prior to dates required by the Energy Code.	Through the CBSC requirements, future single-family residences that do not include natural gas infrastructure are anticipated to achieve Zero Net Energy. Although the project may include natural gas, the proposed project is anticipated to comply with the intent of this measure.
Encourage new construction, including municipal building construction, to achieve third-party green building certifications, such as the GreenPoint Rated program, LEED rating system, or Living Building Challenge.	The project applicant has not committed to achieving third-party green building certification. Consequently, compliance with this suggested measure is uncertain at this time.

(Continued on next page)

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	Consistency Discussion
Require the design of bike lanes to connect to the regional bicycle network.	The proposed project would not include the direct implementation of marked bike lanes. However, development of the project would not preclude construction of any planned bicycle trails. For example, as noted in the City of Oakley Focused General Plan Update, new Class II bicycle lanes are planned on Main Street and Laurel Street in the vicinity of the project site. In addition, the Marsh Creek Regional Trail is an off-street Class I bicycle facility provided along Marsh Creek, and is accessible from Honey Lane and Creekside Way. The project would also include development of an on-site trail, which would connect to the existing pathway north of the project site and provide pedestrian and bicycle access to Creekside Park and the Marsh Creek Regional Trail. Considering the above, the proposed project would comply with the general intent of the suggested measure.
Expand urban forestry and green infrastructure in new land development.	Landscaping improvements would be included throughout the project site. A variety of trees and shrubs would be provided along all internal roadways and within each residential lot. As such, the proposed development would expand upon urban forestry and green infrastructure, and would comply with this measure.
Require preferential parking spaces for park and ride to incentivize carpooling, vanpooling, commuter bus, electric vehicles, and rail service use.	The measure relates to multi-family residential development and commercial land uses, and the proposed project includes only single-family development. As a result, the measure does not apply to the proposed project.
Develop a rideshare program targeting commuters to major employment centers.	The project site would be developed with residences in the future and therefore, would not be considered a major employment center. Consequently, the measure does not apply to the proposed project.
Require gas outlets in residential backyards for use with outdoor cooking appliances such as gas barbecues if natural gas service is available.	The project applicant has not committed to providing natural gas service for outdoor cooking appliances. Accordingly, compliance with this measure is uncertain at this time.
Require the installation of electrical outlets on the exterior walls of both the front and back of residences to promote the use of electric landscape maintenance equipment. ²	Pursuant to California Electrical Code, Article 210.52(E), the project would be required to include at least one electrical outlet to be located in the perimeter of a balcony, deck, or porch. The project applicant has not committed to providing additional exterior electrical outlets to promote the use of electric landscape maintenance equipment. Consequently, the project would partially comply with the suggested measure.
Require the design of the electric outlets and/or wiring in new residential unit garages to promote electric vehicle usage.	The CBSC requires that new residential unit garages be designed with wiring sufficient to provide future installation of electric vehicle charging infrastructure. Therefore, the proposed project would be required to comply with this measure.
Provide electric outlets to promote the use of electric landscape maintenance equipment to the	The project applicant has not committed to providing electrical outlets in the landscaping areas proposed for the

(Continued on next page)

Table 5	
Project Consistency with the 2017 Scoping Plan	
Suggested Measure	Consistency Discussion
extent feasible on parks and public/quasi-public lands.	project site. Compliance with this measure is uncertain at this time.
Require each residential unit to be “solar ready,” including installing the appropriate hardware and proper structural engineering.	The CBSC requires all residences three-stories or less in height to include renewable energy systems. Future residences would be three-stories or less in height, and would thereby be required to generate 100 percent of project electricity needs from on-site solar. Thus, the proposed project would comply with this measure.
Require the installation of energy conserving appliances such as on-demand tank-less water heaters and whole-house fans.	The proposed project would be required to comply with the CBSC, which includes standards related to installation of energy-efficient appliances and building features such as water heaters and ventilation systems. Thus, the project would generally comply with the suggested measure.
Require each residential and commercial building equip buildings [sic] with energy efficient AC units and heating systems with programmable thermostats/timers.	The proposed project would be required to comply with the CBSC, which includes standards related to energy-efficient heating and cooling systems. Thus, the project would generally comply with the suggested measure.
Require large-scale residential developments and commercial buildings to report energy use, and set specific targets for per-capita energy use.	The project applicant has not committed to reporting energy use or setting specific energy use targets. Accordingly, compliance with this suggested measure is uncertain at this time.
Require each residential and commercial building to utilize low flow water fixtures such as low flow toilets and faucets (see CALGreen Divisions 4.3 and 5.3 as well as Appendices A4.3 and A5.3).	The proposed project would be required to comply with the residential water efficiency regulations within CALGreen. Thus, the proposed project would comply with this suggested measure.
Require the use of energy-efficient lighting for all street, parking, and area lighting.	All proposed exterior lighting would be LED type, consistent with the 2019 Building Energy Efficiency Standards. Thus, the proposed project would comply with the suggested measure.
Require the landscaping design for parking lots to utilize tree cover and compost/mulch.	The proposed single-family residential subdivision would not include parking lots. As a result, the suggested measure does not apply to the proposed project.
Incorporate water retention in the design of parking lots and landscaping, including using compost/mulch.	Parking areas are not proposed as part of the project. In addition, the proposed project would include the use of mulch on exposed soil surfaces in landscaped areas, and the project would include several bioretention basins to treat runoff from each DMA. Accordingly, water retention features are incorporated into the overall project design, and the proposed project would comply with the suggested measure.
Require the development project to propose an off-site mitigation project which should generate carbon credits equivalent to the anticipated GHG emission reductions. This would be implemented via an approved protocol for carbon credits from	The suggested mitigation measures included in the 2017 Scoping Plan are not considered to be requirements for local projects under CEQA, but instead represent options for projects to demonstrate compliance with the 2017 Scoping Plan. The inclusion of GHG off-set mitigation projects or the purchase of carbon credits is typically dependent on a project’s exceedance of the previously identified quantitative GHG thresholds. However, neither

(Continued on next page)

Table 5 Project Consistency with the 2017 Scoping Plan	
Suggested Measure	Consistency Discussion
California Air Pollution Control Officers Association (CAPCOA), the California Air Resources Board, or other similar entities determined acceptable by the local air district. The project may alternatively purchase carbon credits from the CAPCOA GHG Reduction Exchange Program, American Carbon Registry (ACR), Climate Action Reserve (CAR) or other similar carbon credit registry determined to be acceptable by the local air district.	BAAQMD nor the City have identified quantitative thresholds that could be used to determine that the project's anticipated emissions would be such that an off-site mitigation project or purchase of GHG reduction credits would be required in order to comply with SB 32. Considering that the project has been shown to be generally consistent with the foregoing measures, the City, in its discretion as lead agency, has chosen not to require the project to implement an off-site mitigation project or purchase GHG reduction credits.
Source: California Air Resources Board. AB 32 Scoping Plan [Appendix B]. Accessible at: https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm. Accessed March 2021.	

As shown in Table 5, the proposed project would comply with the majority of the suggested measures and, thus, the proposed project would be considered generally consistent with the 2017 Scoping Plan. Because the 2017 Scoping Plan is the CARB's strategy for meeting the State's 2030 emissions goals established by SB 32, the project would be considered to comply with the goals of SB 32.

Consistency with Plan Bay Area 2040

The San Francisco Bay Area's Plan Bay Area 2040 has been prepared jointly by the San Francisco Bay Area Metropolitan Transportation Commission (MTC) and the ABAG. Plan Bay Area 2040 is a regional plan intended to provide a strategy for the reduction of GHG emissions and air pollutants within the San Francisco Bay Area. The Plan Bay Area 2040 is a long-range plan that serves as a Regional Transportation Plan and Sustainable Communities Strategy (SCS). As an SCS, the Plan Bay Area 2040 is required to comply with regional targets for reducing GHG emissions through the integration of transportation and land use planning. ABAG has not provided a specified means of identifying an individual development project's compliance with the Plan Bay Area 2040. For the purposes of this analysis, the proposed project is compared to the overall goal of the Plan Bay Area 2040, which is to reduce regional GHG emissions through the reduction of transportation-related emissions.

The proposed project would include construction of sidewalks on both sides of the proposed internal circulation roadways. The project would also provide continuous sidewalks on the north side of Honey Lane, east of Salvador Lane, and on the west side of Salvador Lane, south of Honey Lane. In addition, the Marsh Creek Regional Trail bicycle facility is accessible from the project site. Furthermore, as discussed in further detail in Section XVII, Transportation, the proposed project is not anticipated to contribute to a citywide increase in VMT.

Because the project would not substantially contribute to an increase in regional VMT, the proposed project would be considered consistent with the Plan Bay Area 2040, and would not conflict with the regional GHG reduction targets included therein.

Conclusion

Based on the above, project emissions would be below the BAAQMD's threshold of significance and would not be considered to conflict with the emissions reductions required by AB 32 or SB 32. In addition, the project would be generally consistent with the 2017 Scoping Plan and the Plan Bay Area 2040. Therefore, the proposed project would not generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment, nor conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs. Thus, a ***less-than-significant*** impact would occur.

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 type="checkbox"/>	<input checked="" 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. A significant hazard to the public or the environment could result from the routine transport, use, or disposal of hazardous materials. Future operations of the proposed residences on the project site could involve the use of common household cleaning products, fertilizers, and herbicides on-site, 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 that could reasonably be used on the site, routine use of such products would not represent a substantial risk to public health or the environment. Therefore, the proposed project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, and a **less-than-significant** impact would occur.

- b. Phase I and Phase II Environmental Site Assessments (ESAs) were prepared for the project site and are discussed below (see Appendix F).²⁹

The Phase I ESA included a review of local, State and federal environmental record sources, standard historical sources, aerial photographs, and fuel leak and chemical release lists and files for soil and groundwater contamination cases within a one-mile radius from the project site; a reconnaissance of the project site for significant surficial signs of hazardous waste release, storage of hazardous materials, and surficial indications of the presence of underground storage tanks (USTs), and water wells; and interviews with government personnel, as well as the property owners about current and past site use.

The review of historic aerial photographs and topographic maps indicate that the site was used as an orchard from at least 1939 to sometime prior to 1966. By 1966, the Southern Parcel was still occupied by orchards, while the Northern Parcel was undeveloped, and orchards were not present. By 1979, orchards were not present on either parcel, and a residential structure was constructed on the Northern Parcel near the southwestern perimeter of the property. By 1982, Honey Lane was constructed to its current conditions and, by 1984, the residence on the Northern Parcel was demolished and removed from the project site. By 1993, the existing single-family residence on the Southern Parcel was constructed. Significant changes to the project site were not observed through 2016.

The project site was reviewed for significant surficial signs of hazardous waste release, storage of hazardous materials, and surficial indications of the presence of USTs and water wells. Based on the site reconnaissance conducted on March 10, 2021, old concrete pads and cattle fencing were observed on the southwestern and central portions of the Northern Parcel. Evidence of hazardous wastes and/or substances were not observed during the site visit. In addition, visual evidence of above-ground storage tanks (ASTs), USTs, sumps, or pits were not noted at the project site. As the single-family residence and ancillary building on the Southern Parcel were built in 1988, which is after the federal ban on such materials, lead-based paint and/or asbestos-containing materials are not expected on and/or within the structures.

Based on the project site's location within Contra Costa County, the proposed project would not exceed the EPA's acceptable radon gas level of four pCi/L₁ for residential buildings and, therefore, would not be required to undergo radon gas mitigation per EPA regulations. Furthermore, the United States Geological Survey (USGS) considers the project area a low exposure potential area for radon.

Organochlorine and arsenic pesticide residues may be present within surficial soils due to the project site's former use as an orchard. In addition, the existing well on the Southern Parcel must be removed in accordance with County and State regulations prior to development of the proposed project.

²⁹ GeoSolve, Inc. *Phase I and Phase II Environmental Site Assessments on Proposed Residential Development – 10.605 Acres, 463 and 560 Honey Lane, Oakley, California*. March 29, 2021.

Overall, the Phase I ESA identified two Recognized Environmental Conditions (RECs) associated with the project site: 1) potential pesticides in shallow soil from historical orchards; and 2) lead in the soil around the existing single-family residence on the Southern Parcel. In addition, the Phase I ESA determined that a potentially hazardous condition could exist if the existing well on the Southern Parcel is not removed in accordance with County and State regulations. The Phase I ESA includes a recommendation that near-surface soil sampling should be performed on the project site to address potential impacts due to organochlorine and arsenic pesticides.

In accordance with the recommendation provided in the Phase I ESA, a Phase II ESA was conducted in accordance with the California Department of Toxic Substances Control's (DTSC) *Interim Guidance for Sampling Agricultural Properties (Third Revision)*.³⁰ GeoSolve collected 20 soil samples and four background metal samples from the project site, as well as three soil samples from around the residence on the Southern Parcel using a clean hand-auger. The 20 soil samples were analyzed for organochlorine pesticides and arsenic using the EPA Methods SW846-88080 and 6010B. The four background metal samples and the three soil samples from around the residence were analyzed for arsenic and lead using EPA Method 6010B.

Organochlorine pesticides were mostly undetected during the on-site soil sampling; however, DDT, DDE, DDD, dieldrin, toxaphene, lead, and arsenic were detected in small concentrations. Although DDT, DDE, DDD, dieldrin, toxaphene, lead, and arsenic were detected, the reported concentrations of such compounds were below the applicable Regional Water Quality Control Board's (RWQCB) Environmental Screening Levels (ESLs). In addition, the reported arsenic concentrations detected in the soils were within typical background concentrations in the greater Bay Area, which is below 10 mg/Kg. Given the results of the on-site soil sampling, the two RECs related to on-site soils have been determined to not present a hazard.

Conclusion

Based on the above, the project site does not represent a significant health risk for future residential land uses and further environmental studies are not recommended. However, a potentially hazardous condition could exist if the existing well on the Southern Parcel 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 measure would reduce the above potential impact to a *less-than-significant* level.

- IX-1. *Prior to the issuance of a grading permit, the existing domestic/irrigation well shall be removed/abandoned in accordance with County and State regulations and in cooperation with Contra Cost County Health Services Agency (CCCHSA). Proof of compliance shall be submitted to the City's Planning Department.*

³⁰ California Department of Toxic Substances Control. *Interim Guidance for Sampling Agricultural Properties (Third Revision)*. August 7, 2008.

- c. The nearest schools relative to the project site are Faith Christian School, which is located approximately 0.33-mile southwest of the site, and Gehringer Elementary School, which is located 0.58-mile southwest of the site. Therefore, the proposed project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school, and **no impact** would occur.
- d. Per the State Water Resources Control Board's (SWRCB) GeoTracker data management system, hazardous materials sites, including leaking underground storage tank (LUST) sites and DTSC cleanup sites, have not been identified on or within a 1,000-foot radius of the project area.³¹ In addition, the project site is not located on or near any hazardous waste sites identified on the Envirostor's Hazardous Waste and Substance Site List, which is compiled pursuant to Government Code Section 65962.5.³²

Based on the above, the proposed project would not be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. As such, **no impact** would occur.

- e. The nearest airport to the project site is the Byron Airport, located approximately 10.5 miles southeast of the project site. Therefore, the project site is not located within two miles of any public airports and does not fall within an airport land use plan area. Accordingly, **no impact** would occur related to a safety hazard or excessive noise for people residing or working in the project area.
- f. During operation, the proposed project would provide adequate access for emergency vehicles and would not interfere with potential evacuation or response routes used by emergency response teams. During construction of the proposed project, 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. In addition, all proposed internal roadways would accommodate emergency vehicles. The proposed project would not substantially alter the existing circulation system in the surrounding area. As a result, the proposed 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. According to the California Department of Forestry and Fire Protection (CAL FIRE) Fire and Resource Assessment Program, the project site is not located within a Very High or High Fire Hazard Severity Zone (FHSZ).³³ In addition, the site is located in an urbanized area of the City and is bound by residential development to the west and south, as well as Marsh Creek along the western boundary of the Northern Parcel, which would serve as a fire break. Therefore, the proposed project would not expose people or structures to the

³¹ State Water Resources Control Board. *GeoTracker*. Available at: <https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=oakley+california>. Accessed December 2021.

³² Department of Toxic Substances Control. *Hazardous Waste and Substances Site List*. Available at: https://www.envirostor.dtsc.ca.gov/public/search?cmd=search&reporttype=CORTESE&site_type=CSITES,FUDS&status=ACT,BKLG.COM&reporttitle=HAZARDOUS+WASTE+AND+SUBSTANCES+SITE+LIST+%28CORTESE%29. Accessed December 2021.

³³ California Department of Forestry and Fire Protection. *Contra Costa County, Very High Fire Hazard Severity Zones in LRA*. January 7, 2009.

risk of loss, injury or death involving wildland fires, and a ***less-than-significant*** impact would occur.

X. HYDROLOGY AND WATER QUALITY. <i>Would the project:</i>	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 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 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 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 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 type="checkbox"/>	✘	<input type="checkbox"/>
iv. Impede or redirect flood flows?	<input 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 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 type="checkbox"/>

Discussion

a, ci-ciii. The following discussion provides a summary of the proposed project’s potential to violate water quality standards/waste discharge requirements, alter the drainage pattern of the site resulting in erosion or siltation, increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site, contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or otherwise degrade water quality during construction and operation.

Construction

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 with impervious surfaces and structures, the potential exists for wind and water 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 land disturbance of one or more acres. 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 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. Because the proposed project would disturb greater than one acre of land, the proposed project would be subject to the requirements of the State's General Construction Permit and, with implementation of the required SWPPP and BMPs included therein, the proposed project would not result in a violation of water quality standards and/or degradation of water quality.

Furthermore, per Municipal Code Sections 6.9.306 and 6.9.404, the proposed project would be required to submit an erosion and sediment control plan with submittal of the grading permit application to ensure water quality is not degraded. The plan would include erosion and sediment control measures that would be implemented during grading and would be approved by the City Engineer. Given the required submittal and approval of a SWPPP and erosion and sediment control plan, the proposed project would not violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality during construction.

Operations

Following completion of project buildout, the site would be largely covered with impervious surfaces and landscaped areas, and topsoil would no longer be exposed. As such, the potential for erosion and associated impacts to water quality would be reduced. However, the addition of impervious surfaces on the site would result in the generation of urban runoff during project operations, which could contain pollutants if the runoff comes into contact with vehicle fluids on parking surfaces and/or landscape fertilizers and herbicides. All municipalities within Contra Costa County (and the County itself) are required to develop more restrictive surface water control standards for new development projects as part of the renewal of the Countywide NPDES permit.

The City of Oakley has adopted the County C.3 Stormwater Standards, which require new development and redevelopment projects that create or alter 10,000 sf or more of impervious area to contain and treat all stormwater runoff from the project site. The proposed project would include 256,906 sf of new impervious area; therefore, the proposed project would be subject to the County C.3 Stormwater Standards.³⁴ The proposed project would also be subject to the requirements of the SWRCB and the RWQCB, as well as the County C.3 Standards, which are included in the City's NPDES General Permit. In addition, the proposed project would adhere to Title 6, Chapter 11, of the Municipal Code, which establishes standards for stormwater management and discharge.³⁵ Prior to issuance of a building permit, the applicant would submit a Stormwater Control Plan (SWCP) that meets the criteria in the most recent version of the Contra Costa Clean Water Program *Stormwater C.3 Guidebook*. Compliance with such requirements would ensure that impacts to water quality standards or waste discharge requirements would not occur during operation of the proposed project.

An SWCP has been prepared for the proposed project (see Figure 7). In compliance with the Contra Costa County Clean Water Program *Stormwater C.3 Guidebook*, the proposed project would treat stormwater from the site via bioretention areas located throughout the

³⁴ Carlson, Barbee, & Gibson, Inc. *Honey/Creekside Preliminary Stormwater Control Plan*. January 3, 2022.

³⁵ City of Oakley. *Oakley Municipal Code* [Title 6, Chapter 11]. Updated February 23, 2021.

project site. The strategic placement of the bioretention areas would ensure the preservation of natural drainage patterns.³⁶

In order to manage and treat stormwater, the project site would be divided into 11 DMAs. Each DMA would include an associated bioretention area, with the exception of DMA 11, which is self-treating. Runoff generated by impervious surfaces areas within each DMA, such as roofs and driveways, would be collected by a series of roof leaders into new storm drain inlets, and then directed towards the DMA's associated bioretention area. Runoff in the right-of-way (sidewalks and roadways) would be collected by new storm drain inlets prior to being directed towards the DMA's associated bioretention area. Following treatment, runoff would be directed into a new network of 18-inch stormwater lines and ultimately into the City's storm drain system in Honey Lane and Salvador Lane.

The bioretention areas would accommodate runoff from all 57 residential lots and the roadways on the site, and are designed according to the criteria in the Contra Costa County Clean Water Program *Stormwater C.3 Guidebook*. Roof drainage would be routed via roof leaders and directed to a private area drain system, which would outfall to the gutters via sidewalk drains. Runoff would then be conveyed to the roadway low point and enter the associated DMAs via reverse sidewalk drains. Following treatment at the bioretention areas, the proposed storm drain system would route the clean water to the existing storm drain system. The project's proposed grading and storm drainage design would allow all drainage and treatment to be achieved via gravity flow. In order to adequately treat all runoff from the project site, the project would be required to provide 10,893 sf of water quality treatment areas.³⁷ As the proposed DMAs would provide 11,204 sf of water quality treatment areas,³⁸ the project would exceed the requirements and all runoff would be adequately treated prior to discharge.

Although the project site is adjacent to Marsh Creek, the project would be required to provide a 75-foot setback from the top of the bank. Two bioretention areas are located along the eastern boundary of the Northern Parcel, adjacent to Marsh Creek; however, runoff would be treated at the two bioretention areas before being directed into new stormwater lines away from Marsh Creek. The project would not include any improvements that would directly discharge to Marsh Creek; therefore, the proposed project would not adversely affect surface water quality.

As discussed in Section VII, Geology and Soils, of this IS/MND, the applicant for the project would be required to prepare a SWPPP. Pursuant to Section 6.11.212 of the Oakley Municipal Code, the applicant would be required to apply for a Water Discharger Identification (WDID) number from the State Water Board prior to the issuance of a grading permit and submit a SWPPP. In order to obtain a grading permit, the WDID number must be obtained and noted on the cover sheet of the grading plans. Furthermore, the applicant would be required to submit a stormwater control plan and implement conditions of approval that reduce stormwater pollutant charges. Prior to the issuance of grading permits, the applicant is required to prepare an interim and final erosion and sediment control plan, which would include a delineation and brief description of the measures to be undertaken to retain sediment on the site, as well as runoff and erosion control measures.

³⁶ Carlson, Barbee, & Gibson, Inc. *Honey/Creekside Preliminary Stormwater Control Plan*. January 3, 2022.

³⁷ Carlson, Barbee, & Gibson, Inc. *Honey/Creekside Subdivision 9579 Preliminary Storm Drain Study*. November 9, 2021.

³⁸ *Ibid.*

Conclusion

Based on the above, impacts related to water quality would not occur during project operations. The proposed project could violate water quality standards/waste discharge requirement, alter the drainage pattern of the site resulting in erosion or siltation, increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site, contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or otherwise degrade water quality during construction. However, the project would be required to submit an erosion and sediment control plan per Municipal Code Sections 6.9.306 and 6.9.404 and would comply with BMPs outlined in Section 6.11.212. Thus, a **less-than-significant** impact could occur.

- b,e. Potable water service for the proposed project would be provided by the DWD. According to the DWD's 2020 Urban Water Management Plan (UWMP), the primary water supply for distribution is treated surface water.³⁹ As a result, any increase in water demand associated with the proposed project would be primarily met through surface water supply, rather than groundwater.

The DWD operates a groundwater supply system that currently consists of groundwater extracted from two wells in Oakley, which is then conveyed in a dedicated well supply pipeline to a blending facility. According to the DWD 2020 UWMP, the wells are connected to the East Contra Costa Subbasin underlying the City. The East Contra Costa Subbasin has been designated as a medium-priority basin by the Department of Water Resources, and is not in overdraft conditions.⁴⁰

The project site represents a relatively small area compared to the overall surface area of the East Contra Costa Subbasin. In addition, runoff from the proposed impervious surfaces would be directed to a bioretention facility and, ultimately, to an off-site detention basin. At both locations, runoff water would percolate and recharge the East Contra Costa Subbasin. Therefore, any new impervious surfaces associated with the proposed project would not interfere substantially with groundwater recharge within the East Contra Costa Subbasin.

Based on the above, the proposed project would result in a **less-than-significant** impact with respect to substantially decreasing groundwater supplies, interfering substantially with groundwater recharge, or conflicting with or obstructing implementation of a water quality control plan or sustainable groundwater management plan.

- civ. According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map for the project site, the project site is located within an Area of Minimal Flood Hazard (Zone X).⁴¹ The site is not classified as a Special Flood Hazard Area or otherwise located within a 100-year or 500-year floodplain. However, it is noted that the project site is adjacent to Marsh Creek which is classified as a Regulatory Floodway. Consistent with ECCCHCP/NCCP's Stream Setback Requirements for Streams within the Urban Development Area for 3rd or higher order streams in agricultural or natural areas and Marsh Creek mainstem, the project would be required to maintain a stream setback of 75

³⁹ Diablo Water District. 2020 Urban Water Management Plan. June 2021.

⁴⁰ *Ibid.*

⁴¹ Federal Emergency Management Agency. Flood Insurance Rate Map 06013C0355G. Effective March 21, 2017.

feet from the top of the Marsh Creek bank.⁴² Given compliance with the required setback, development of the proposed project would not impede or redirect flood flows and **no impact** would result.

- d. As discussed under question 'civ' above, the project site is not located within a flood hazard zone. Tsunamis are defined as sea waves created by undersea fault movement, whereas a seiche is a long-wavelength, large-scale wave action set up in a closed body of water such as a lake or reservoir. The project site is located 48 miles from the California coastline and approximately 1.5 miles south of the San Francisco Bay tributaries. Therefore, it is not anticipated that the project would be affected by flooding risks associated with tsunamis. Furthermore, seiches do not pose a risk to the proposed project because the project site is not located adjacent to a large, closed body of water. The project site has a 75-foot setback from Marsh Creek; however, the creek is not a closed body of water and would not result in hazards related to seiches. Based on the above, the proposed project would not result in a risk related to the release of pollutants due to project inundation flooding, tsunami, or seiche, and **no impact** would occur.

⁴² East Contra Costa County Habitat Conservation Plan Association. *Final East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan* [Table 6-2]. October 2006.

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. The proposed residences would be compatible with the existing development in the project area, such as the single-family residences to the west and east. In addition, a trail is proposed on the west side of the Northern Parcel and would connect to the existing pathway north of the project site to provide pedestrian and bicycle access to Creekside Park and the Marsh Creek Regional Trail. The proposed sidewalk improvements along Honey Lane would also increase pedestrian connectivity in the project area. Therefore, the proposed project would be a continuation of the surrounding development and would not isolate an existing land use. As such, the proposed project would not physically divide an established community and a **less-than-significant** impact would occur.

- b. The proposed project is consistent with the General Plan land use designation; therefore, single-family residential development has been anticipated at the project site. As demonstrated throughout this IS/MND, the proposed project would not conflict with City policies and regulations adopted for the purpose of avoiding or mitigating an environmental effect. For example, because the project would introduce new residents, the project applicant would be required to pay the City’s parks and recreation impact fees. Furthermore, in compliance with the ECCCHCP/NCCP, the proposed project would be subject to pay all applicable fees according to the Fee Zone Map of the ECCCHCP/NCP prior to construction, and would be required to complete pre-construction surveys for western burrowing owl, Swainson’s hawk, golden eagle, and migratory birds.

Based on the above, the proposed project would not 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, 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. The City of Oakley General Plan EIR states that the only viable mineral resource currently mined in the City of Oakley is sand.⁴³ In addition, the General Plan does not identify any known mineral resource areas within the Planning Area, including the project site. Furthermore, because the site is located near residential development, the site would not be suitable for mining operations. Thus, the proposed project would not result in the loss of availability of a known mineral resource or a locally important mineral recovery site, and the proposed project would result in **no impact** related to mineral resources.

⁴³ City of Oakley. *City of Oakley 2020 General Plan Draft Environmental Impact Report* [pg. 278]. September 2002.

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

Discussion

a. The following discussion presents information regarding noise standards and criteria applicable to various land uses, as well as sensitive noise receptors in proximity to the project site 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 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.

City Noise Standards and Criteria

Chapter 9, Noise Element, of the City’s 2002 General Plan contains the following policies which would be applicable to the proposed project:⁴⁴

- 9.1.1 New development shall use the land use compatibility table shown in Figure 9.1 and the standards contained within Tables 9.1 and 9.3 (of the General Plan) for determining noise compatibility.
- 9.1.2 New development of noise-sensitive uses shall not be allowed where the noise level due to non-transportation noise sources will exceed the noise level standards of Table 9-1 (of the General Plan) as measured immediately within the property line or within a designated outdoor activity area (location is at the discretion of the Community Development Director) of the new development, unless effective noise

⁴⁴ As previously noted, a Focused General Plan Update was adopted in early 2022, following initiation of the CEQA review process for the proposed project. The Focused General Plan Update included reformatting updates to the Noise Element, but did not substantively change any goals, policies, or programs referenced therein.

mitigation measures have been incorporated into the development design to achieve the standards specified in Table 9-1 (of the General Plan).

- 9.1.3 Noise created by new proposed non-transportation noise sources shall be mitigated so as not to exceed the noise level standards of Table 9-1 (of the General Plan) as measured immediately within the property line of lands designated for noise-sensitive uses.
- 9.1.5 Noise created by new transportation noise sources shall be mitigated so as not to exceed the levels specified in Table 9-3 (of the General Plan) at outdoor activity areas or interior spaces of existing noise-sensitive land uses.
- 9.1.8 Obtrusive, discretionary noise generated from residences, motor vehicles, commercial establishments, and/or industrial facilities should be minimized or prohibited.

The City of Oakley General Plan Noise Element establishes a noise level standard of 60 dB as normally acceptable at residential land uses. Based upon General Plan Figure 9-1, an ambient noise level of 60 dBA L_{dn} is considered normally acceptable for single-family residential uses. In addition to the policies listed above, Policy 9.1.6 in the City’s General Plan is summarized in Table 6.

Table 6 Significance of Changes in Noise Exposure	
Ambient Noise Level Without Project, L_{dn}	Increase Required for Significant Impact
<60 dB	+5.0 dB or more
60-65 dB	+3.0 dB or more
>65 dB	+1.5 dB or more
<i>Source: City of Oakley General Plan Noise Element, 2002.</i>	

Per the City’s General Plan Table 9-1, with regard to non-transportation noise, exterior noise levels at residences should not exceed 55 dBA during daytime hours (7:00 AM to 10:00 PM) and 45 dBA during nighttime hours (10:00 PM to 7:00 AM).

The following analysis relies on the aforementioned thresholds of significance to determine if noise impacts associated with construction and operation of the proposed project would occur.

Sensitive Noise Receptors and Existing Noise Environment

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. The nearest sensitive uses include the single-family residences located east, west, and south of the project site boundary, with the closest located approximately 55 feet from the site boundary. The existing noise environment in the project vicinity is primarily defined by vehicle traffic on the local roadway network.

Construction Noise

During construction of the proposed project, heavy-duty equipment would be used for demolition, grading, excavation, paving, and building construction, which would result in temporary noise level increases. Standard construction equipment, such as backhoes, dozers, and dump trucks would be used on-site. Project haul truck traffic on local roadways would also result in a temporary noise level increase during construction activities. Table 7 shows the predicted construction noise levels for development of the proposed project.

Type of Equipment	Maximum Level, dB at 50 feet
Auger Drill Rig	84
Backhoe	78
Compactor	83
Compressor (air)	78
Concrete Saw	90
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Jackhammer	89
Pneumatic Tools	85

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

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. Construction activities would be temporary in nature and are anticipated to occur during normal daytime hours. Section 4.2.208 of the Municipal Code restricts noise-producing construction activities to weekday hours between 7:30 AM and 7:00 PM Monday through Friday, and from 9:00 AM to 7:00 PM on weekends.

Based on the table, activities involved in typical construction would generate maximum noise levels up to 90 dB at a distance of 50 feet. The nearest single-family residences to the east, west, and south of the site are located within 55 feet of the proposed construction area. Because the nearest single-family residences are located more than 50 feet away from the project site, sensitive receptors would not be exposed to noise levels exceeding 90 dB during construction. The General Plan EIR determined that implementation of General Plan policies and programs would reduce the impact of construction-related noise to a less-than-significant level. Although the proposed project is consistent with the General Plan and would be required to comply with all General Plan policies related to noise, a potentially significant impact could occur related to the generation of a substantial temporary increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance during construction.

Operational Noise

Noise generated during operations of the proposed project would be limited to residential noise and traffic noise, as discussed in further detail below.

Residential Noise

Operation of the proposed project would include typical residential noise, such as landscaping maintenance, and heating, ventilation, and HVAC systems, which would be compatible with the adjacent existing residential uses. Assuming the project HVAC systems and maintenance equipment would be in normal working order, the proposed project is not anticipated to contribute a measurable operational noise level increase to the existing ambient noise environment at any sensitive receptor locations. Therefore, a less-than-significant impact would occur with regard to on-site operational noise.

Traffic Noise

The primary noise source associated with operation of the proposed project would be traffic noise. Pursuant to General Plan Policy 9.1.5 and Table 9-3 of the General Plan, noise level increases resulting from traffic associated with new projects should be mitigated so as not to exceed 65 dBA L_{dn} for residential uses.

Based on Table 9-5 of the General Plan, the project site is located in an area with existing noise levels of 59 dBA L_{dn} or less. The nearest major intersection in the vicinity of the project site, the Main Street/Laurel Street intersection, experiences approximately 2,011 AM peak hour trips and 1,810 PM peak hour trips per day.⁴⁵ As such, the existing traffic conditions at the intersection result in noise levels of approximately 59 dB at the project site. As discussed in Section XVII, Transportation, of this IS/MND, the proposed project would generate approximately 39 AM peak hour trips and 53 PM peak hour trips per day. Given the comparatively minor contribution of project-generated traffic, the increase in traffic associated with project-generated trips is not anticipated to increase ambient noise levels to over 65 dBA L_{dn} .

In addition, Impact 3.13A of the General Plan EIR determined that new development may increase traffic volumes along existing roadways and introduce traffic along new roadways, thereby exposing residents to excessive roadside noise levels and creating a potentially significant impact. However, implementation of the General Plan would reduce this impact to a less-than-significant level. As previously discussed, the proposed project would be required to comply with General Plan Policies 9.1.1, 9.1.2, 9.1.3, 9.1.5, 9.1.6, and 9.1.8 with regard to noise generation. Compliance with the aforementioned policies would reduce the proposed project's traffic noise to a less-than-significant impact. In addition, as the project is consistent with the General Plan, vehicle trips generated by the proposed project would be included in the estimate of buildout of the General Plan.

Based on the above, the proposed project would not result in a substantial increase in noise levels related to vehicle traffic.

Conclusion

Based on the above, operation of the proposed project would not result in the generation of a substantial permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the City's General Plan and the Municipal Code. However, considering the potential for construction activities to result in temporary increases in noise levels in the project area in excess of standards established in the local

⁴⁵ TJKM. *Burroughs Residential Development Draft Traffic Impact Analysis, Oakley, California*. March 31, 2021.

general plan or noise ordinance, or applicable standards of other agencies, 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.

XIII-1. Prior to approval of grading permits, the following criteria shall be established and noted on graded plans, subject to review and approval by the City of Oakley Planning Division:

- *Construction activities shall be limited to between the daytime hours of 7:30 AM to 7:00 PM Monday through Friday, and 9:00 AM to 7:00 PM on Saturdays, Sundays, and holidays.*
- *Construction equipment shall be properly maintained and equipped with noise-reduction intake and exhaust mufflers and engine shrouds, in accordance with manufacturers' recommendations. Equipment engine shrouds shall be closed during equipment operation.*
- *When not in use, motorized construction equipment shall not be left idling for more than five minutes.*
- *Stationary equipment (power generators, compressors, etc.) shall be located at the furthest practical distance from nearby noise-sensitive land uses or sufficiently shielded to reduce noise-related impacts.*

- 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 to 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 8, 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 primary vibration-generating activities associated with the proposed project would occur during construction when activities such as grading, utilities placement, and paving occur. Table 9 shows the typical vibration levels produced by construction equipment at various distances. The most substantial source of groundborne vibrations associated with

project construction would be the use of vibratory compactors. Use of vibratory compactors/rollers could be required during construction of the proposed project.

Table 8			
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.			

Table 9		
Vibration Levels for Various Construction Equipment		
Type of Equipment	PPV at 25 feet (in/sec)	PPV at 50 feet (in/sec)
Large Bulldozer	0.089	0.031
Loaded Trucks	0.076	0.027
Small Bulldozer	0.003	0.001
Auger/drill Rigs	0.089	0.031
Jackhammer	0.035	0.012
Vibratory Hammer	0.070	0.025
Vibratory Compactor/roller	0.210 (less than 0.20 at 26 feet)	0.074
Source: Federal Transit Administration, Transit Noise and Vibration Impact Assessment Guidelines, May 2006.		

Based on Table 9, construction vibration levels anticipated for the project would be less than the 0.2 in/sec threshold at distances of 26 feet or more. Sensitive receptors that could be impacted by construction-related vibrations, especially vibratory compactors/rollers, are located approximately 55 feet, or further, from the site boundaries.

Furthermore, the proposed project would only cause elevated vibration levels during construction, as the proposed project would not involve any uses or operations that would generate substantial groundborne vibration. Additionally, construction activities would be

temporary in nature and are anticipated to occur during normal daytime working hours, consistent with Section 4.2.208 of the City's Municipal Code.

Because construction activities are not anticipated to expose people to or generate excessive groundbourne vibrations or groundborne noise levels, a ***less-than-significant*** impact would occur.

- c. The nearest airport to the site is Byron Airport, located approximately 10.57 miles southeast of the site. The 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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion

- a. The proposed project would include the development of 57 single-family residential units. Using the City of Oakley General Plan’s average person per household value for single-family uses of 3.43,⁴⁶ the proposed project would generate approximately 196 (57 x 3.43 = 195.51) additional residents to the City’s population. The 2020 U.S. Census estimated the population of Oakley to be approximately 43,357.⁴⁷ Such an increase in population would constitute a 0.45 percent increase in the City’s population, which is not considered substantial growth. Furthermore, as discussed in Section XIX, Utilities and Service Systems, of this IS/MND, adequate utility infrastructure would be available to support the proposed project. Finally, the population growth generated by the proposed project is not unplanned because the proposed project is consistent with the City of Oakley General Plan, which anticipated such development on the project site. As a result, the project would have a **less-than-significant** impact with respect to inducing substantial unplanned population growth in an area, either directly or indirectly.
- b. The proposed project would require demolition of one existing single-family residence and one associated ancillary structure. However, the removal of a single residence would not be considered to result in the displacement of a substantial number of existing people or housing. In addition, although one residence would be removed from the City’s housing stock, the proposed project would involve the construction of 57 new residences in the future. As such, the proposed project would not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere, and a **less-than-significant** impact would occur.

⁴⁶ City of Oakley. *City of Oakley General Plan* [pg. 2-7]. Adopted January 11, 2022.

⁴⁷ U.S. Census Bureau. *Quick Facts, City of Oakley, California*. Available at: <https://www.census.gov/quickfacts/fact/table/oakleycitycalifornia/POP010220#POP010220>. Accessed March 2022.

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 type="checkbox"/>	✘	<input type="checkbox"/>
b. Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	✘	<input type="checkbox"/>
c. Schools?	<input type="checkbox"/>	<input type="checkbox"/>	✘	<input type="checkbox"/>
d. Parks?	<input type="checkbox"/>	<input type="checkbox"/>	✘	<input type="checkbox"/>
e. Other Public Facilities?	<input type="checkbox"/>	<input type="checkbox"/>	✘	<input type="checkbox"/>

Discussion

a. Fire protection services within the project area are provided by the East Contra Costa Fire Protection District (ECCFPD). The ECCFPD is a rural-funded fire district that protects approximately 249 square miles and over 128,000 residents.⁴⁸ The ECCFPD provides firefighting personnel and emergency medical services from three fire stations. Station 53 is the closest station to the project site, located approximately 1.6 miles to the northwest. The proposed project would be subject to the fire facilities impact fees established by the City of Oakley Municipal Code Section 9.2.502. Payment of the required impact fee would help account for any increased demands on fire services that may result from the proposed project, as well as ensure that the project conforms with the City of Oakley’s General Plan Policy 4.4.2, which requires new developments to pay a fair share of costs for new fire protection facilities and services. Additionally, the proposed project would not include any alterations to the circulation system of the surrounding area which could conflict with the City of Oakley’s General Plan Policy 4.4.4, or lead to a degradation in response times.

An ECCFPD Staffing Adequacy Study identified a need for nine ECCFPD stations in order to adequately provide coverage to residents and businesses (four-minute travel time for urban areas and eight-minute travel time for suburban and rural areas).⁴⁹ The ECCFPD subsequently prepared a Strategic Plan and Implementation Action Plan, which includes strategies for ensuring financial stability and sustainability; reducing response times for emergency services throughout the ECCFPD; maintaining a high-performing workforce; modernizing stations, apparatuses, and equipment; and developing a community risk reduction program.⁵⁰ Through annual reports and the ECCFPD’s budget process, the ECCFPD Board of Directors and District staff will ensure the Strategic Plan and its Implementation Action Plan are pursued and achieved through the year 2023.⁵¹

As the proposed project is consistent with the General Plan, the increased demand for fire services due to residential development was anticipated and included in the ECCFPD’s

⁴⁸ East Contra Costa Fire Protection District. *About the District*. Available at: <https://www.eccfpd.org/about-the-district>. Accessed February 2022.

⁴⁹ CityGate Associates. *Deployment Performance and Headquarters Staffing Adequacy Study, East Contra Costa Fire Protection District, California, Volume 1 Executive Summary* [pg. 7]. June 15, 2016.

⁵⁰ East Contra Costa Fire Protection District. *East Contra Costa Fire Protection District Strategic Plan 2019 through 2023*. December 2018.

⁵¹ *Ibid.*

Strategic Plan and Implementation Action Plan. Following the completion of the ECCFPD Implementation Action Plan in 2023, the provision of fire services would be adequate for future development of residences within ECCFPD's service area. In addition, the project would be required to pay development fees in accordance with the City of Oakley Municipal Code. As the proposed project is not expected to cause significant degradation to response times or service ratios for the ECCFPD, which would induce the need for physically altered or expanded governmental facilities for fire protection services, the project would result in a **less-than-significant** impact.

- b. Police protection is provided to the City of Oakley by the Oakley Police Department. The Oakley Police Department currently employs 43 persons, including the Chief of Police, the Lieutenant, six Sergeants, five Detectives, 21 Police Officers, and nine Police Services Assistants.⁵² As previously discussed, the proposed project would result in the development of 57 single-family residences. As new residences typically generate a demand for police services, an increase in demand for police services would likely occur with implementation of the project. Nevertheless, the increase in police service demand from development of the project site has been included in City of Oakley's demand predictions based on anticipated General Plan buildout. In addition, development fees would be applied to the proposed project, as well as a Police Services levy to mitigate the financial impact to the City's police services budget.

Based on the above, the proposed project would create a demand that was anticipated for the site and would not induce the need for physically altered or expanded governmental facilities for police protection services, the construction of which could cause significant environmental impacts. Therefore, the proposed project would result in a **less-than-significant** impact.

- c. The Oakley Union School District and the Antioch Unified School District provide public educational services to the City of Oakley. Given that the proposed project would include development of the project site with 57 single-family residences, the proposed project could increase the demand for schools in the area. Using a standard student generation rate of 0.53 students per dwelling unit, the proposed project's addition of 57 single-family residences would result in approximately 30 new K-12 students.⁵³ The City of Oakley General Plan includes goals and policies set forth to ensure adequate primary and secondary schools are developed in response to population growth. The City expects the General Plan to assist in the goal of providing an efficient and complete educational system for the citizens of Oakley. For example, Policy 4.65, set forth in the General Plan, ensures that school facility impacts fees are collected and requires that the City shall work with developers and school districts to establish mitigation measures to ensure the availability of adequate school facilities.

The proposed project would be subject to payment of School Impact Mitigation Development Fees to fund local school services. 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

⁵² City of Oakley Police Department. *2017 Annual Report*. Available at: <http://www.ci.oakley.ca.us/wp-content/uploads/2018/04/Annual-Report-2017-2-2.pdf>. Accessed January 2022.

⁵³ Antioch Unified School District. *Facilities Master Plan* [pg. 248]. July 2018.

of the Proposition 1A/SB 50 statutory requirements by a developer are deemed to be “full and complete mitigation.” In other words, payment of applicable development fees would be sufficient in reducing the impacts associated with an increase in students from the project.

Therefore, the proposed project would result in a **less-than-significant** impact regarding an increase in demand for schools.

- d,e. The City of Oakley Municipal Code Section 9.2.208 requires 7.02 acres of parkland per 1,000 residents. Based on the rate of 3.43 persons per single-family residence, buildout of the project site would result in an increase of approximately 196 new residents to the City. As a result, 1.38 acres of parkland would be required (0.00702 acres of parkland per resident X 196 new residents = 1.38 acres of parkland). Oakley Resolution 19-03 requires subdividers of land within the City to dedicate land and/or pay fees in lieu of the dedication for the neighborhood and community parks and recreation programs. Because the proposed project would not include the dedication of parkland, the project applicant would be subject to the payment of in-lieu fees.

The Oakley 2020 General Plan EIR also analyzed impacts of buildout of the General Plan on other public facilities, such as libraries. The Oakley Branch Library is located in Freedom High School at 1050 Neroly Road and is open Tuesday through Saturday. Other libraries in close proximity to the City of Oakley include the Antioch Library and the Brentwood Branch Library. Future residents of the proposed project would have access to the aforementioned facilities. The Oakley 2020 General Plan EIR concluded that with implementation of the necessary General Plan policies, impacts related to public services would be reduced to a less-than-significant level. As the proposed project is consistent with the General Plan, build-out of the proposed project would have a less-than-significant impact related to public services.

Given that the proposed project would be required to pay the applicable park in-lieu fee, and the development of the site was anticipated by the City, the project would result in a **less-than-significant** impact related to parks and other public facilities.

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

Discussion

a,b. As discussed in Section XIV, Population & Housing, the proposed project would involve the development of 57 single-family residences, which are anticipated to serve approximately 196 residents. Thus, an increase in demand on recreational facilities is anticipated. The City of Oakley Municipal Code Section 9.2.208 requires 7.02 acres of parkland per 1,000 residents. Thus, as noted previously, 1.38 acres of parkland would be required to accommodate the anticipated population increase associated with the proposed project.

The City of Oakley Municipal Code Section 9.2.204 mandates developments that include subdivision of land to either dedicate parkland or pay fees in lieu of the dedication for the neighborhood and community parks and recreation programs. The proposed project would not include dedication of any land to the City for recreational facilities; therefore, the project applicant would be subject to in-lieu fees required per the Municipal Code. The park impact fees imposed by the City are used to generate revenue to provide park and recreational services on a community-wide level and to the general project vicinity. In addition, it is noted that, as part of the project, a trail would be constructed on the west side of the Northern Parcel and would connect to the existing pathway north of the project site to provide pedestrian and bicycle access to Creekside Park and the Marsh Creek Regional Trail.

Based on the above, the proposed project would result in a **less-than-significant** impact related to recreation.

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. Traditionally, lead agencies used level of service (LOS) to assess the significance of such impacts, with greater levels of congestion considered to be more significant than lesser levels. Mitigation measures typically took the form of capacity-increasing improvements, which often had their own environmental impacts (e.g., to biological resources). Depending on circumstances, and an agency’s tolerance for congestion (e.g., as reflected in its general plan), LOS D, E, or F often represented significant environmental effects. In 2013, however, the State Legislature passed legislation with the intention of ultimately doing away with LOS in most instances as a basis for environmental analysis under CEQA. Enacted as part of SB 743 (2013), PRC Section 21099, subdivision (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. In developing the criteria, [OPR] shall recommend potential metrics to measure transportation impacts that may include, but are not limited to, vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated. The office may also establish criteria for models used to analyze transportation impacts to ensure the models are accurate, reliable, and consistent with the intent of this section.”

Subdivision (b)(2) of Section 21099 further provides that “[u]pon certification of the guidelines by the Secretary of the Natural Resources Agency pursuant to this section, automobile delay, as described solely by level of service or similar measures of vehicular capacity or traffic congestion *shall not be considered a significant impact on the environment* pursuant to [CEQA], except in locations specifically identified in the guidelines, if any.” (Italics added.)

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’ 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."⁵⁴

Please refer to question 'b' for a discussion of VMT.

Project Trip Generation

The Traffic Study was prepared by TJKM to identify the proposed project's potential trip generation and any transportation related impacts associated with such (see Appendix I). Project vehicle trip generation rates were obtained from the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition). Based on the ITE rates, the proposed project is estimated to generate 529 daily vehicle trips, including 39 AM peak hour and 53 PM peak hour trips.⁵⁵ According to the City of Oakley Traffic Impact Analysis Guidelines, a traffic impact study is required for projects that generate 100 or more net new peak hour trips to the roadway system.⁵⁶ As the proposed project would generate fewer trips than the 100 peak hour trip threshold, a traffic impact study is not required for the proposed project, and the proposed project would not conflict with any General Plan Standards related to roadway operations.

Consistency with the City of Oakley General Plan Policies – Pedestrian, Bicycle, and Transit Facilities

The proposed project's potential impacts related to pedestrian, bicycle, and transit facilities are discussed below.

Pedestrian Facilities

Pedestrian facilities are comprised of crosswalks, sidewalks, pedestrian signals, and off-street paths, which provide safe and convenient routes for pedestrians to access destinations such as institutions, businesses, public transportation, and recreation facilities. Continuous sidewalks currently exist on one side of Honey Lane, Salvador Lane, Creekside Way, and Mailcoat Avenue.

The proposed project would include construction of sidewalks on both sides of the proposed internal circulation roadways. The project would also provide continuous sidewalks on the north side of Honey Lane, east of Salvador Lane, and on the west side of Salvador Lane, south of Honey Lane. All new sidewalks would be required to comply with the Americans with Disabilities Act (ADA) and would conform to the existing pedestrian network in the project vicinity. Curb ramps exist at the southern corners of the existing Honey Lane and Salvador Lane intersection. The project would add new curb ramps to the northern and southwest quadrants of the Honey Lane and Salvador Lane intersection, along with a striped crosswalks across each approach leg. The proposed curb ramps would be required comply with City standards at all intersections and driveways. Furthermore, a trail is proposed as part of the project on the west side of the Northern Parcel. The proposed trail would connect to the existing pathway north of the

⁵⁴ 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.

⁵⁵ TJKM. *Traffic Study for 463 and 560 Honey Lane in Oakley, California*. November 11, 2021.

⁵⁶ City of Oakley. *Traffic Impact Analysis Guidelines*. Adopted October 2018.

project site and provide pedestrian and bicycle access to Creekside Park and the Marsh Creek Regional Trail.

Considering the above, the proposed construction of new sidewalks and curb ramps would enhance the existing pedestrian infrastructure and would be required to comply with applicable City and ADA standards. Therefore, the proposed project would not result in the creation of a conflict with any adopted programs, plans, ordinances, or policies addressing pedestrian facilities and a less-than-significant impact would occur related to pedestrian facilities.

Bicycle Facilities

Approximately 29 miles of bicycle facilities are installed throughout the City of Oakley, including 15 miles of Class II on-street bicycle lanes and 12.4 miles of Class I multi-use paths.⁵⁷ In addition, 23 miles of additional bicycle facilities are either planned or proposed, such as new Class II bicycle lanes on Main Street and Laurel Street in the vicinity of the project site.⁵⁸ The Marsh Creek Regional Trail is an off-street Class I bicycle facility provided along Marsh Creek, and is accessible from Honey Lane and Creekside Way. Although several Class II and Class III bicycle facilities exist in the City of Oakley, additional existing bicycle facilities are not located in the immediate project vicinity.

Considering the Marsh Creek Regional Trail bicycle facility is accessible from the project site and development of the project would not preclude construction of any planned bicycle trails, the proposed project would not result in the creation of a conflict with any adopted programs, plans, ordinances, or policies addressing bicycle facilities, and a less-than-significant impact would occur related to bicycle facilities.

Transit Facilities

Tri-Delta Transit provides transit services in the City of Oakley, with three lines connecting Brentwood and the Pittsburg/Bay Point Bay Area Rapid Transit (BART) station. Due to COVID-19 conditions, some of the routes and schedules may not currently be in full operation. The following Tri-Delta Transit Routes currently operate in the project vicinity:

- *Route 391*, the BART/Pittsburg/Antioch/Oakley/Brentwood route, provides weekday service to most East County cities. Route 391 operates from 4:06 AM to 1:28 AM with 30 to 74-minute headways.
- *Route 393*, the BART/Pittsburg/Antioch/Oakley/Brentwood route, provides weekend service to Route 391. Route 393 operates from 5:17 AM to 12:05 AM on Saturday and 6:18 AM to 12:56 AM on Sundays with approximately 60-minute headways.

At the project site, the nearest bus stops are located at the intersection of Laurel Road/Main Street (0.6-mile northwest of the project site) served by Routes 391 and 393. The proposed project would add a few trips to the existing transit services, which could be accommodated by the existing transit capacity. Furthermore, the proposed project is consistent with the General Plan land use designation for the site; therefore, impacts related to transit were already anticipated and evaluated in the General Plan EIR. Thus,

⁵⁷ City of Oakley. *Mobility White Paper, City of Oakley Focused General Plan Update*. December 2019.

⁵⁸ *Ibid.*

the proposed project would not conflict with a program, plan, ordinance, or policy addressing transit service and a less-than-significant impact would occur.

Conclusion

Based on the above, a **less-than-significant** impact would occur related to conflicting with a program, plan, ordinance, or policy addressing the circulation system, including transit, bicycle, and pedestrian facilities.

- 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 Oakley has not yet established any standards or thresholds regarding VMT, pursuant to Section 15064.3(b)(3), a lead agency may analyze a project's VMT qualitatively based on the availability of transit, proximity to destinations, etc. While changes to driving conditions that increase intersection delay are an important consideration for traffic operations and management, the method of analysis does not fully describe environmental effects associated with fuel consumption, emissions, and public health. Section 15064.3(3) changes the focus of transportation impact analysis in CEQA from measuring impact to drivers to measuring the impact of driving.

The Contra Costa Transportation Authority (CCTA) considers residential projects to have a significant impact on VMT if the project generated home-based VMT per resident is higher than the following:

- 85 percent of the home-based VMT per resident in the municipality; or
- 85 percent of the existing County-wide average home-based VMT per resident.

TJKM performed VMT analysis for the project with the CCTA Model. Two full model runs were performed in accordance with the CCTA VMT methodology to compare VMT under Baseline (2020) and Baseline (2020) plus Project Conditions. The first model run was for Baseline Conditions, which represent the Year 2020 traffic conditions for the City of Oakley. The second model run was for Baseline plus Project Conditions, which represent the Year 2020 plus project traffic conditions for the City of Oakley.

Under Baseline conditions, the home-based VMT per capita for the City of Oakley is 26.76. For the project to have a less-than-significant impact, the project must produce VMT within the 85 percent threshold, which equates to 22.75 (0.85×26.76) VMT per resident. Under Baseline plus Project Conditions, the project adds 57 single-family residential units into Travel Analysis Zone (TAZ) #30265. The VMT per capita for the project TAZ is 21.37. The project generated VMT falls under the 85 percent threshold established above, thus, impacts related to VMT would be considered less than significant.

In addition, the Contra Costa County Transportation Analysis Guidelines require Cumulative VMT impacts to be evaluated for consistency with the Contra Costa County General Plan (Envision 2040).⁵⁹ As the proposed project is consistent with the Contra Costa County General Plan, and the General Plan is consistent with the VMT projections

⁵⁹ Contra Costa County. *Transportation Analysis Guidelines*. June 23, 2020.

as originally analyzed, the proposed project's cumulative impacts related to VMT would be less-than-significant.

Based on the above, the proposed project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b), and a **less-than-significant** impact would occur.

- c,d. Primary access to the project site is proposed from Honey Lane. In addition, the proposed internal roadway network would connect to Salvador Lane to provide secondary access. Per the site plan, each street within the proposed internal roadway network would be 56 to 61 feet wide. The roadway widths are expected to accommodate on-street parking as well as emergency vehicle access.

The proposed project would not alter the existing transportation network nor increase hazards due to a geometrical design feature. The proposed project would convert the existing three-lane intersection at Honey Lane and Salvador Lane into a four-lane, all-way stop control intersection. In addition, the proposed buildings are sufficiently set back from Honey Lane and Salvador Lane such that visibility for motorists would not be hindered.

During project construction, public roads in the vicinity would remain open and available for use by emergency vehicles and other traffic. In addition, the new internal roadways would provide two points of access to the project site, which would be adequate for emergency vehicle access. All interior drive aisles and parking stalls would comply with City design standards, and, thus, on-site circulation would be expected to function acceptably for emergency response vehicles. As such, the proposed on-site vehicle circulation would allow for emergency vehicle access and would not impede current response times to the project site.

Implementation of the proposed project would introduce additional vehicle traffic along Honey Lane and Salvador Lane. However, the proposed project would be consistent with the General Plan land use designation for the site and impacts related to hazards and emergency access associated with the proposed project were already analyzed and anticipated in the General Plan EIR.

Based on the above, the proposed project would not substantially increase hazards due to a geometric design feature or incompatible uses, or result in inadequate emergency access, and 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, a records search of the CHRIS was performed on December 2, 2021 was completed by NWIC for cultural resource site records and survey reports within the project site.⁶⁰ The CHRIS search indicated that the project site has a high potential of identifying Native American archaeological resources and historic-period archaeological resources in the project area. In addition, the NAHC conducted a records search of the SLF on January 31, 2022. Per the NAHC SLF, the site does not contain known tribal cultural resources. In addition, the field survey conducted by Tom Origer & Associates did not identify any indications of such resources.

In compliance with AB 52 (PRC Section 21080.3.1), a project notification letter was distributed to the chairpersons of the following tribes on January 24, 2022: 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, The Ohlone Indian Tribe, Tule River Indian Tribe, Wilton Rancheria, and The Confederated Villages of Lisjan.

A request for consultation was received from The Confederated Villages of Lisjan Chairperson Corrina Gould on January 24, 2022, to which a response was given, explaining that a site visit to evaluate the potential for on-site cultural resources would occur as part of the Cultural Resources Report for the project site. In addition, Chairperson Gould was supplied with the Cultural Resources Report prepared by Tom Origer &

⁶⁰ Tom Origer & Associates. *Cultural Resources Study for the Honey Creekside Project, Oakley, Contra Costa County, California*. February 7, 2022.

Associates for the proposed project. Additional comments were not received and, as such, consultation was concluded on February 10, 2022.

Based on the history of disturbance at the project site and former agricultural uses, as well as the lack of identified tribal cultural resources at the site, tribal cultural resources are not expected to occur within the site. Nevertheless, the possibility exists that development of the proposed project 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 related 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. Implement Mitigation Measures V-1 and V-2.

XIX. UTILITIES AND SERVICE SYSTEMS.	Potentially Significant Impact	Less-Than-Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<i>Would the project:</i>				
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. Electricity, natural gas, telecommunications, water, and sanitary sewer services would be provided to the project site by way of new connections to existing infrastructure in the immediate project area. Brief discussions of water, sewer service, stormwater drainage, electrical, natural gas, and telecommunications that would serve the proposed project are included below.

Water

Water service for the proposed project would be provided by the DWD. Per the DWD's 2020 UWMP, DWD's primary water supply for the distribution system is treated surface water from the United States Bureau of Reclamation's Central Valley Project (CVP) purchased from the Contra Costa Water District (CCWD). CVP water is conveyed through the Contra Costa Canal and Los Vaqueros system, and treated at the Randall-Bold Water Treatment Plant in Oakley, which is jointly owned by DWD and CCWD.⁶¹ According to the DWD Draft 2020 UWMP, the DWD has a baseline demand of 177 gallons per capita.⁶² The proposed project would allow for future development of 57 single-family residences. Based on the City of Oakey's estimate of 3.43 persons per household, the proposed project would add approximately 196 residents to the area. Thus, the project is projected to increase water demand by 34,692 gallons per day (177 gallons per capita x 196 residents), or 38.86 acre-feet per year.

⁶¹ Diablo Water District. 2020 Urban Water Management Plan. June 2021.

⁶² Diablo Water District. 2020 Urban Water Management Plan [pg. 3-5]. June 2021.

According to the DWD Draft 2020 UWMP, the DWD's projected water supply exceeds the water demand for normal, single-dry, and multiple-dry years until at least 2040.⁶³ For example, during a normal year in 2025, the anticipated supply exceeds the anticipated demand by 4,965 acre-feet per year. Therefore, the DWD would have sufficient water supply to accommodate the 38.86 acre-feet per year increase associated with the proposed project.

While the proposed project would result in increased water consumption at the project site, this increase in demand has been captured in DWD's demand projections. Furthermore, the project site has been anticipated for development by the City of Oakley's General Plan. The DWD's demand estimates consider increases in demand due to buildout of the City's General Plan;⁶⁴ consequently, the DWD has anticipated some level of increased water demand due to development of the project site compared to existing conditions. Even in the event that DWD has not anticipated the increased demand, DWD maintains an anticipated surplus in future water supplies, which would be more than sufficient to accommodate increased demand from the project site. Thus, given the relatively small increase in water demand due to the project and DWD's anticipated water surplus, adequate long-term water supply exists.

Wastewater

Sanitary sewer services would be provided to the project site by ISD. The wastewater system is composed of collection, treatment, and effluent recycling facilities. ISD operates and maintains the sewer system, which collects wastewater flows from individual developments within the City and conveys them to ISD's Water Recycling Facility. Wastewater is ultimately treated and stored either at the facility in a large 76 million gallon holding pond, or the treated water is conveyed to an outfall pipe in the San Joaquin River. The Water Recycling Facility has an average daily flow of 2.3 million gallons per day (MGD). The facility has a treatment capacity of approximately 4.3 MGD.⁶⁵

The proposed project would include construction of new eight-inch sanitary sewer lines throughout the project site. The proposed sanitary sewer lines within the project site would direct wastewater to the existing 10-inch sanitary sewer main within Salvador Lane. Using standard industry assumptions that (1) domestic water use represents 40 percent of consumption; and (2) wastewater generation represents 90 percent of domestic water use, the proposed project would generate approximately 12,490 gallons of effluent on a daily basis (34,692 gallons x 0.40 x 0.90). The addition of wastewater from the proposed project would represent less than two percent of the Water Recycling Facility's available capacity; therefore, future development of 57 residences would not require the construction of new or expansion of existing wastewater treatment facilities, as the Water Recycling Facility has adequate capacity to serve the proposed project.

Furthermore, given that the project is consistent with the site's current General Plan land use, the type and intensity of growth that would be induced by the proposed project has been considered in the General Plan and associated wastewater generation has been

⁶³ Diablo Water District. *2020 Urban Water Management Plan* [pg. 5-5 to 5-6]. June 2021.

⁶⁴ Diablo Water District. *2020 Urban Water Management Plan* [pg. 2-2]. June 2021.

⁶⁵ Ironhouse Sanitary District. *Sewer System Management Plan* [pg. 1-3]. April 2017.

analyzed in the General Plan EIR. The General Plan EIR determined that impacts related to wastewater treatment capacity would be less than significant.

Therefore, given the available capacity within the wastewater facility, the proposed project would not result in inadequate capacity to serve the project's projected demand in addition to the existing commitments.

Stormwater

As discussed above in Section X, Hydrology, of this IS/MND, stormwater generated by impervious surfaces would be directed and treated at bioretention areas throughout the project site. The proposed on-site drainage systems would be required to comply with the City's SWPPP and erosion and sediment control plan, as well as the County C.3 standards. Additionally, because the site has been anticipated for development by the City's General Plan, impacts to stormwater systems resulting from development of the site have been analyzed in the City's General Plan EIR. Therefore, the proposed project would not significantly increase stormwater flows into ISD's existing system and sufficient water supplies would be available to serve the project.

Electricity, Natural Gas, and Telecommunications

Electricity, natural gas, and telecommunications utilities would be provided by way of connections to existing infrastructure located within the immediate project vicinity. PG&E would provide electricity and natural gas services to the project site, while AT&T would provide telecommunication services. The proposed project would not require major upgrades to, or extension of, existing infrastructure. Thus, impacts related to electricity, natural gas, and telecommunications infrastructure would be less than significant.

Conclusion

Based on the above, the type and intensity of growth that would be induced by the proposed project was generally considered in the City's General Plan and associated wastewater generation and water use has been analyzed in the General Plan EIR. In addition, the project is located within a developed urban area and would not require major expansion or extension of existing water, wastewater, electrical, or telecommunications facilities in the project area.

Therefore, the proposed project would not require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater, electric power, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects. Sufficient water supplies would be available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years. Furthermore, adequate wastewater capacity would be available to serve the project's projected demand in addition to ISD's existing commitments. Thus, a **less-than-significant** impact would occur.

- d,e. Solid waste, recyclable materials, and compostable material from the City of Oakley is hauled to Potrero Hills Landfill, located in Solano County. The landfill has a maximum permitted throughput of 4,330 tons per day. According to the California Department of Resources Recycling and Recovery (CalRecycle), the Potrero Hills Landfill has a remaining capacity of 13,872,000 cubic yards out of a total permitted capacity of

83,100,000 cubic yards.⁶⁶ Due to the substantial amount of available capacity remaining at Potrero Hills Landfill, sufficient capacity would be available to accommodate the project's solid waste disposal needs. Additionally, because the site has been anticipated for development by the City General Plan, impacts related to solid waste resulting from development of the site have already been evaluated in the City's General Plan EIR. Therefore, a **less-than-significant** impact related to solid waste would occur as a result of the proposed project.

⁶⁶ California Department of Resources Recycling and Recovery (CalRecycle). *Facility/Site Summary: Potrero Hill Landfill (48-AA-0075)*. Available at: <https://www2.calrecycle.ca.gov/SolidWaste/Site/Summary/3591>. Accessed December 2021.

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 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 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 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 type="checkbox"/>

Discussion

a-d. According to the CALFIRE Fire and Resource Assessment Program, the project site is not located within a Very High or High FHSZ.⁶⁷ In addition, the project site is located near existing development and roadways, as well as Marsh Creek to the east, which would act as a fire break. The presence of urban development and paved areas would preclude the uncontrolled spread of wildfire. Thus, the proposed project would not result in substantial risks or hazards related to wildfires, and a **less-than-significant** impact would occur.

⁶⁷ California Department of Forestry and Fire Protection. *Contra Costa County, Very High Fire Hazard Severity Zones in LRA*. January 7, 2009.

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

Discussion

a. As discussed in Section IV, Biological Resources, of this IS/MND, while a limited potential exists for western burrowing owl, Swainson’s hawk, and nesting raptors and migratory birds protected by the MBTA to occur on-site, the proposed project would comply with the ECCCHCP/NCCP requirements including avoidance and minimization measures. In addition, the project site does not contain any eligible historical on-site structures or known historic or prehistoric resources. Implementation of the proposed project is not anticipated to result in impacts related to historic or prehistoric resources. Nevertheless, Mitigation Measures V-1 and V-2 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, with implementation of the mitigation measures identified herein, a **less-than-significant** impact would occur.

b. The proposed project, in conjunction with other development within the City of Oakley, 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 standards, and other applicable local and State regulations.

All cumulative impacts related to air quality, noise, and transportation are either less than significant after mitigation or less than significant and do not require mitigation. Given the scope of the project, any incremental effects would not be considerable relative to the effects of all past, current, and probably future projects. In addition, buildout of the site was anticipated for residential uses. As such, the proposed project is within the realm of what has been anticipated for the site and potential impacts resulting from development of the project have been analyzed in the General Plan EIR. Therefore, when viewed in conjunction with other closely related past, present, or reasonably foreseeable future projects, with the implementation of mitigation, development of the proposed project would not result in a cumulatively considerable contribution to cumulative impacts, 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 standards, other applicable local and State regulations, and mitigation measures included herein. In addition, as discussed in Section VII, Geology and Soils, Section IX, Hazards and Hazardous Materials, and Section XIII, Noise, of this IS/MND, the proposed project would not cause substantial effects to human beings, including effects related to exposure to hazardous materials and noise. Therefore, with implementation of the required mitigation measures, the proposed project would result in a ***less-than-significant*** impact.

Appendix A
Air Quality and Greenhouse Gas Emissions – CalEEMod Results

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

**Honey Creekside Subdivision Project
Bay Area AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	57.00	Dwelling Unit	10.60	102,600.00	163

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage adjusted per site plan.

Construction Phase - Construction phase timing adjusted per applicant-provided questionnaire.

Grading -

Demolition -

Vehicle Trips - Trip generation rate updated per project-specific traffic memo by TJKM.

Construction Off-road Equipment Mitigation - As noted on AQ Questionnaire, all construction equipment would be Tier 4.

Area Mitigation - Per AQ Questionnaire, no hearths would be installed.

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with the 2019 CalGreen Code.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	600.00
tblConstructionPhase	NumDays	300.00	600.00

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

tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	PhaseEndDate	1/11/2024	12/18/2025
tblConstructionPhase	PhaseEndDate	11/16/2023	12/4/2025
tblConstructionPhase	PhaseEndDate	9/22/2022	8/10/2023
tblConstructionPhase	PhaseEndDate	12/14/2023	8/17/2023
tblConstructionPhase	PhaseEndDate	8/11/2022	6/29/2023
tblConstructionPhase	PhaseStartDate	12/15/2023	9/1/2023
tblConstructionPhase	PhaseStartDate	9/23/2022	8/18/2023
tblConstructionPhase	PhaseStartDate	8/12/2022	6/30/2023
tblConstructionPhase	PhaseStartDate	11/17/2023	8/11/2023
tblGrading	MaterialImported	0.00	11,500.00
tblLandUse	LotAcreage	18.51	10.60
tblVehicleTrips	ST_TR	9.54	9.43
tblVehicleTrips	SU_TR	8.55	9.43
tblVehicleTrips	WD_TR	9.44	9.43

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2058	2.1069	1.3290	2.6200e-003	1.2038	0.1021	1.3058	0.5745	0.0940	0.6685	0.0000	230.9867	230.9867	0.0699	8.6000e-004	232.9916
2023	0.4199	3.1800	2.5779	5.5400e-003	1.5301	0.1419	1.6720	0.7256	0.1315	0.8571	0.0000	489.9941	489.9941	0.1270	8.1000e-003	495.5813
2024	0.5405	1.9609	2.4335	4.2900e-003	0.0310	0.0887	0.1197	8.3800e-003	0.0839	0.0922	0.0000	372.2253	372.2253	0.0746	2.7800e-003	374.9167
2025	0.4979	1.6896	2.2431	3.9700e-003	0.0288	0.0706	0.0995	7.7800e-003	0.0668	0.0746	0.0000	344.6033	344.6033	0.0685	2.5000e-003	347.0599
Maximum	0.5405	3.1800	2.5779	5.5400e-003	1.5301	0.1419	1.6720	0.7256	0.1315	0.8571	0.0000	489.9941	489.9941	0.1270	8.1000e-003	495.5813

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

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0480	0.8241	1.5509	2.6200e-003	1.2038	4.2100e-003	1.2080	0.5745	4.2000e-003	0.5787	0.0000	230.9865	230.9865	0.0699	8.6000e-004	232.9914
2023	0.2011	1.7830	3.0981	5.5400e-003	1.5301	0.0108	1.5409	0.7256	0.0108	0.7364	0.0000	489.9936	489.9936	0.1270	8.1000e-003	495.5808
2024	0.4011	1.6084	2.6601	4.2900e-003	0.0310	0.0119	0.0430	8.3800e-003	0.0119	0.0203	0.0000	372.2249	372.2249	0.0746	2.7800e-003	374.9163
2025	0.3824	1.4904	2.4626	3.9700e-003	0.0288	0.0110	0.0399	7.7800e-003	0.0110	0.0188	0.0000	344.6030	344.6030	0.0685	2.5000e-003	347.0595
Maximum	0.4011	1.7830	3.0981	5.5400e-003	1.5301	0.0119	1.5409	0.7256	0.0119	0.7364	0.0000	489.9936	489.9936	0.1270	8.1000e-003	495.5808

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	37.96	36.16	-13.84	0.00	0.00	90.58	11.42	0.00	89.92	19.99	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2022	9-30-2022	1.1260	0.4491
2	10-1-2022	12-31-2022	1.1942	0.4255
3	1-1-2023	3-31-2023	0.9729	0.4160
4	4-1-2023	6-30-2023	0.9885	0.4253
5	7-1-2023	9-30-2023	0.9750	0.6409
6	10-1-2023	12-31-2023	0.6655	0.5048
7	1-1-2024	3-31-2024	0.6210	0.4990
8	4-1-2024	6-30-2024	0.6202	0.4982

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9	7-1-2024	9-30-2024	0.6270	0.5037
10	10-1-2024	12-31-2024	0.6279	0.5045
11	1-1-2025	3-31-2025	0.5766	0.4932
12	4-1-2025	6-30-2025	0.5822	0.4979
13	7-1-2025	9-30-2025	0.5886	0.5034
		Highest	1.1942	0.6409

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8216	0.0122	0.9114	1.0300e-003		0.0728	0.0728		0.0728	0.0728	7.2453	2.4703	9.7156	0.0144	4.1000e-004	10.1978
Energy	8.1800e-003	0.0699	0.0298	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	122.3113	122.3113	8.2400e-003	2.3000e-003	123.2012
Mobile	0.2145	0.2381	1.9928	4.1300e-003	0.4576	3.0700e-003	0.4607	0.1223	2.8600e-003	0.1251	0.0000	391.0878	391.0878	0.0254	0.0187	397.2978
Waste						0.0000	0.0000		0.0000	0.0000	13.8968	0.0000	13.8968	0.8213	0.0000	34.4286
Water						0.0000	0.0000		0.0000	0.0000	1.1782	2.6175	3.7957	0.1214	2.9100e-003	7.6984
Total	1.0443	0.3203	2.9340	5.6100e-003	0.4576	0.0815	0.5391	0.1223	0.0813	0.2036	22.3203	518.4869	540.8072	0.9908	0.0243	572.8238

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4856	4.8700e-003	0.4228	2.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	0.6913	0.6913	6.6000e-004	0.0000	0.7079
Energy	8.1800e-003	0.0699	0.0298	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	122.3113	122.3113	8.2400e-003	2.3000e-003	123.2012
Mobile	0.2145	0.2381	1.9928	4.1300e-003	0.4576	3.0700e-003	0.4607	0.1223	2.8600e-003	0.1251	0.0000	391.0878	391.0878	0.0254	0.0187	397.2978
Waste						0.0000	0.0000		0.0000	0.0000	13.8968	0.0000	13.8968	0.8213	0.0000	34.4286
Water						0.0000	0.0000		0.0000	0.0000	1.1782	2.4658	3.6441	0.1214	2.9100e-003	7.5453
Total	0.7083	0.3129	2.4454	4.6000e-003	0.4576	0.0111	0.4687	0.1223	0.0109	0.1331	15.0750	516.5563	531.6312	0.9770	0.0239	563.1807

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	32.17	2.30	16.65	18.00	0.00	86.42	13.07	0.00	86.64	34.61	32.46	0.37	1.70	1.38	1.69	1.68

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	7/28/2022	5	20	
2	Site Preparation	Site Preparation	7/29/2022	6/29/2023	5	240	
3	Grading	Grading	6/30/2023	8/10/2023	5	30	

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4	Building Construction	Building Construction	8/18/2023	12/4/2025	5	600
5	Paving	Paving	8/11/2023	8/17/2023	5	5
6	Architectural Coating	Architectural Coating	9/1/2023	12/18/2025	5	600

Acres of Grading (Site Preparation Phase): 360

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 207,765; Residential Outdoor: 69,255; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	131.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,438.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	21.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.1000e-004	0.0113	2.4000e-003	4.0000e-005	1.1100e-003	1.0000e-004	1.2100e-003	3.0000e-004	1.0000e-004	4.0000e-004	0.0000	4.1058	4.1058	1.4000e-004	6.5000e-004	4.3030
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.5900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9533	0.9533	3.0000e-005	3.0000e-005	0.9622
Total	7.2000e-004	0.0116	5.9900e-003	5.0000e-005	2.3000e-003	1.1000e-004	2.4000e-003	6.2000e-004	1.1000e-004	7.2000e-004	0.0000	5.0591	5.0591	1.7000e-004	6.8000e-004	5.2652

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8400e-003	0.1356	0.2467	3.9000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	5.8400e-003	0.1356	0.2467	3.9000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.1000e-004	0.0113	2.4000e-003	4.0000e-005	1.1100e-003	1.0000e-004	1.2100e-003	3.0000e-004	1.0000e-004	4.0000e-004	0.0000	4.1058	4.1058	1.4000e-004	6.5000e-004	4.3030
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.5900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9533	0.9533	3.0000e-005	3.0000e-005	0.9622
Total	7.2000e-004	0.0116	5.9900e-003	5.0000e-005	2.3000e-003	1.1000e-004	2.4000e-003	6.2000e-004	1.1000e-004	7.2000e-004	0.0000	5.0591	5.0591	1.7000e-004	6.8000e-004	5.2652

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1936	0.0000	1.1936	0.5718	0.0000	0.5718	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1759	1.8361	1.0932	2.1100e-003		0.0895	0.0895		0.0823	0.0823	0.0000	185.5886	185.5886	0.0600	0.0000	187.0892
Total	0.1759	1.8361	1.0932	2.1100e-003	1.1936	0.0895	1.2831	0.5718	0.0823	0.6541	0.0000	185.5886	185.5886	0.0600	0.0000	187.0892

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7400e-003	1.9800e-003	0.0239	7.0000e-005	7.8900e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.3488	6.3488	2.0000e-004	1.8000e-004	6.4083
Total	2.7400e-003	1.9800e-003	0.0239	7.0000e-005	7.8900e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.3488	6.3488	2.0000e-004	1.8000e-004	6.4083

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1936	0.0000	1.1936	0.5718	0.0000	0.5718	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0387	0.6750	1.2743	2.1100e-003		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	185.5884	185.5884	0.0600	0.0000	187.0890
Total	0.0387	0.6750	1.2743	2.1100e-003	1.1936	3.4500e-003	1.1970	0.5718	3.4500e-003	0.5752	0.0000	185.5884	185.5884	0.0600	0.0000	187.0890

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7400e-003	1.9800e-003	0.0239	7.0000e-005	7.8900e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.3488	6.3488	2.0000e-004	1.8000e-004	6.4083
Total	2.7400e-003	1.9800e-003	0.0239	7.0000e-005	7.8900e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.3488	6.3488	2.0000e-004	1.8000e-004	6.4083

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3562	0.0000	1.3562	0.6611	0.0000	0.6611	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1715	1.7753	1.1768	2.4600e-003		0.0817	0.0817		0.0751	0.0751	0.0000	215.7570	215.7570	0.0698	0.0000	217.5015
Total	0.1715	1.7753	1.1768	2.4600e-003	1.3562	0.0817	1.4378	0.6611	0.0751	0.7363	0.0000	215.7570	215.7570	0.0698	0.0000	217.5015

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

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9700e-003	2.0300e-003	0.0258	8.0000e-005	9.1700e-003	5.0000e-005	9.2200e-003	2.4400e-003	4.0000e-005	2.4800e-003	0.0000	7.1901	7.1901	2.1000e-004	2.0000e-004	7.2540
Total	2.9700e-003	2.0300e-003	0.0258	8.0000e-005	9.1700e-003	5.0000e-005	9.2200e-003	2.4400e-003	4.0000e-005	2.4800e-003	0.0000	7.1901	7.1901	2.1000e-004	2.0000e-004	7.2540

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3562	0.0000	1.3562	0.6611	0.0000	0.6611	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0449	0.7845	1.4809	2.4600e-003		4.0000e-003	4.0000e-003		4.0000e-003	4.0000e-003	0.0000	215.7567	215.7567	0.0698	0.0000	217.5012
Total	0.0449	0.7845	1.4809	2.4600e-003	1.3562	4.0000e-003	1.3602	0.6611	4.0000e-003	0.6651	0.0000	215.7567	215.7567	0.0698	0.0000	217.5012

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

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9700e-003	2.0300e-003	0.0258	8.0000e-005	9.1700e-003	5.0000e-005	9.2200e-003	2.4400e-003	4.0000e-005	2.4800e-003	0.0000	7.1901	7.1901	2.1000e-004	2.0000e-004	7.2540
Total	2.9700e-003	2.0300e-003	0.0258	8.0000e-005	9.1700e-003	5.0000e-005	9.2200e-003	2.4400e-003	4.0000e-005	2.4800e-003	0.0000	7.1901	7.1901	2.1000e-004	2.0000e-004	7.2540

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1387	0.0000	0.1387	0.0549	0.0000	0.0549	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642
Total	0.0498	0.5177	0.4208	9.3000e-004	0.1387	0.0214	0.1601	0.0549	0.0197	0.0746	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642

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

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0975	0.0229	4.3000e-004	0.0122	7.9000e-004	0.0130	3.3400e-003	7.5000e-004	4.1000e-003	0.0000	42.9094	42.9094	1.4100e-003	6.8000e-003	44.9710
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	6.6500e-003	2.0000e-005	2.3700e-003	1.0000e-005	2.3800e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.8579	1.8579	5.0000e-005	5.0000e-005	1.8744
Total	2.2700e-003	0.0980	0.0296	4.5000e-004	0.0145	8.0000e-004	0.0153	3.9700e-003	7.6000e-004	4.7400e-003	0.0000	44.7673	44.7673	1.4600e-003	6.8500e-003	46.8454

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1387	0.0000	0.1387	0.0549	0.0000	0.0549	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.2891	0.5508	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641
Total	0.0152	0.2891	0.5508	9.3000e-004	0.1387	1.5200e-003	0.1402	0.0549	1.5200e-003	0.0564	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641

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

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5000e-003	0.0975	0.0229	4.3000e-004	0.0122	7.9000e-004	0.0130	3.3400e-003	7.5000e-004	4.1000e-003	0.0000	42.9094	42.9094	1.4100e-003	6.8000e-003	44.9710
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	5.3000e-004	6.6500e-003	2.0000e-005	2.3700e-003	1.0000e-005	2.3800e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.8579	1.8579	5.0000e-005	5.0000e-005	1.8744
Total	2.2700e-003	0.0980	0.0296	4.5000e-004	0.0145	8.0000e-004	0.0153	3.9700e-003	7.6000e-004	4.7400e-003	0.0000	44.7673	44.7673	1.4600e-003	6.8500e-003	46.8454

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0755	0.6905	0.7797	1.2900e-003		0.0336	0.0336		0.0316	0.0316	0.0000	111.2663	111.2663	0.0265	0.0000	111.9280
Total	0.0755	0.6905	0.7797	1.2900e-003		0.0336	0.0336		0.0316	0.0316	0.0000	111.2663	111.2663	0.0265	0.0000	111.9280

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0128	4.0100e-003	6.0000e-005	1.8900e-003	7.0000e-005	1.9600e-003	5.5000e-004	7.0000e-005	6.2000e-004	0.0000	5.6850	5.6850	1.2000e-004	8.4000e-004	5.9385
Worker	2.5800e-003	1.7700e-003	0.0224	7.0000e-005	7.9700e-003	4.0000e-005	8.0100e-003	2.1200e-003	4.0000e-005	2.1600e-003	0.0000	6.2425	6.2425	1.8000e-004	1.7000e-004	6.2981
Total	2.8900e-003	0.0146	0.0264	1.3000e-004	9.8600e-003	1.1000e-004	9.9700e-003	2.6700e-003	1.1000e-004	2.7800e-003	0.0000	11.9275	11.9275	3.0000e-004	1.0100e-003	12.2366

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0256	0.5238	0.8579	1.2900e-003		4.0600e-003	4.0600e-003		4.0600e-003	4.0600e-003	0.0000	111.2662	111.2662	0.0265	0.0000	111.9279
Total	0.0256	0.5238	0.8579	1.2900e-003		4.0600e-003	4.0600e-003		4.0600e-003	4.0600e-003	0.0000	111.2662	111.2662	0.0265	0.0000	111.9279

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0128	4.0100e-003	6.0000e-005	1.8900e-003	7.0000e-005	1.9600e-003	5.5000e-004	7.0000e-005	6.2000e-004	0.0000	5.6850	5.6850	1.2000e-004	8.4000e-004	5.9385
Worker	2.5800e-003	1.7700e-003	0.0224	7.0000e-005	7.9700e-003	4.0000e-005	8.0100e-003	2.1200e-003	4.0000e-005	2.1600e-003	0.0000	6.2425	6.2425	1.8000e-004	1.7000e-004	6.2981
Total	2.8900e-003	0.0146	0.0264	1.3000e-004	9.8600e-003	1.1000e-004	9.9700e-003	2.6700e-003	1.1000e-004	2.7800e-003	0.0000	11.9275	11.9275	3.0000e-004	1.0100e-003	12.2366

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

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3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.1000e-004	0.0350	0.0107	1.6000e-004	5.1600e-003	2.1000e-004	5.3600e-003	1.4900e-003	2.0000e-004	1.6900e-003	0.0000	15.2735	15.2735	3.1000e-004	2.2600e-003	15.9546
Worker	6.5900e-003	4.3000e-003	0.0570	1.8000e-004	0.0217	1.1000e-004	0.0218	5.7800e-003	1.0000e-004	5.8800e-003	0.0000	16.6167	16.6167	4.4000e-004	4.4000e-004	16.7576
Total	7.4000e-003	0.0393	0.0677	3.4000e-004	0.0269	3.2000e-004	0.0272	7.2700e-003	3.0000e-004	7.5700e-003	0.0000	31.8902	31.8902	7.5000e-004	2.7000e-003	32.7122

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0699	1.4295	2.3415	3.5300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0699	1.4295	2.3415	3.5300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

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

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.1000e-004	0.0350	0.0107	1.6000e-004	5.1600e-003	2.1000e-004	5.3600e-003	1.4900e-003	2.0000e-004	1.6900e-003	0.0000	15.2735	15.2735	3.1000e-004	2.2600e-003	15.9546
Worker	6.5900e-003	4.3000e-003	0.0570	1.8000e-004	0.0217	1.1000e-004	0.0218	5.7800e-003	1.0000e-004	5.8800e-003	0.0000	16.6167	16.6167	4.4000e-004	4.4000e-004	16.7576
Total	7.4000e-003	0.0393	0.0677	3.4000e-004	0.0269	3.2000e-004	0.0272	7.2700e-003	3.0000e-004	7.5700e-003	0.0000	31.8902	31.8902	7.5000e-004	2.7000e-003	32.7122

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1655	1.5088	1.9462	3.2600e-003		0.0638	0.0638		0.0601	0.0601	0.0000	280.6225	280.6225	0.0660	0.0000	282.2717
Total	0.1655	1.5088	1.9462	3.2600e-003		0.0638	0.0638		0.0601	0.0601	0.0000	280.6225	280.6225	0.0660	0.0000	282.2717

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3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0322	9.7100e-003	1.4000e-004	4.7600e-003	1.9000e-004	4.9500e-003	1.3800e-003	1.8000e-004	1.5600e-003	0.0000	13.8567	13.8567	2.9000e-004	2.0500e-003	14.4744
Worker	5.7200e-003	3.5800e-003	0.0494	1.6000e-004	0.0201	9.0000e-005	0.0202	5.3400e-003	9.0000e-005	5.4300e-003	0.0000	14.9816	14.9816	3.7000e-004	3.8000e-004	15.1033
Total	6.4500e-003	0.0358	0.0591	3.0000e-004	0.0248	2.8000e-004	0.0251	6.7200e-003	2.7000e-004	6.9900e-003	0.0000	28.8383	28.8383	6.6000e-004	2.4300e-003	29.5777

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0646	1.3204	2.1627	3.2600e-003		0.0102	0.0102		0.0102	0.0102	0.0000	280.6222	280.6222	0.0660	0.0000	282.2713
Total	0.0646	1.3204	2.1627	3.2600e-003		0.0102	0.0102		0.0102	0.0102	0.0000	280.6222	280.6222	0.0660	0.0000	282.2713

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

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0322	9.7100e-003	1.4000e-004	4.7600e-003	1.9000e-004	4.9500e-003	1.3800e-003	1.8000e-004	1.5600e-003	0.0000	13.8567	13.8567	2.9000e-004	2.0500e-003	14.4744
Worker	5.7200e-003	3.5800e-003	0.0494	1.6000e-004	0.0201	9.0000e-005	0.0202	5.3400e-003	9.0000e-005	5.4300e-003	0.0000	14.9816	14.9816	3.7000e-004	3.8000e-004	15.1033
Total	6.4500e-003	0.0358	0.0591	3.0000e-004	0.0248	2.8000e-004	0.0251	6.7200e-003	2.7000e-004	6.9900e-003	0.0000	28.8383	28.8383	6.6000e-004	2.4300e-003	29.5777

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5800e-003	0.0255	0.0365	6.0000e-005		1.2800e-003	1.2800e-003		1.1700e-003	1.1700e-003	0.0000	5.0067	5.0067	1.6200e-003	0.0000	5.0472
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.5800e-003	0.0255	0.0365	6.0000e-005		1.2800e-003	1.2800e-003		1.1700e-003	1.1700e-003	0.0000	5.0067	5.0067	1.6200e-003	0.0000	5.0472

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3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	8.3000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2322	0.2322	1.0000e-005	1.0000e-005	0.2343
Total	1.0000e-004	7.0000e-005	8.3000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2322	0.2322	1.0000e-005	1.0000e-005	0.2343

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4000e-004	0.0251	0.0432	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.0067	5.0067	1.6200e-003	0.0000	5.0472
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.4000e-004	0.0251	0.0432	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.0067	5.0067	1.6200e-003	0.0000	5.0472

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3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	8.3000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2322	0.2322	1.0000e-005	1.0000e-005	0.2343
Total	1.0000e-004	7.0000e-005	8.3000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2322	0.2322	1.0000e-005	1.0000e-005	0.2343

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1035					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.2400e-003	0.0560	0.0779	1.3000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	10.9790	10.9790	6.6000e-004	0.0000	10.9954
Total	0.1118	0.0560	0.0779	1.3000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	10.9790	10.9790	6.6000e-004	0.0000	10.9954

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3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.0000e-004	3.8100e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0652	1.0652	3.0000e-005	3.0000e-005	1.0747
Total	4.4000e-004	3.0000e-004	3.8100e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0652	1.0652	3.0000e-005	3.0000e-005	1.0747

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1035					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3400e-003	0.0456	0.0788	1.3000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	10.9790	10.9790	6.6000e-004	0.0000	10.9954
Total	0.1059	0.0456	0.0788	1.3000e-004		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	10.9790	10.9790	6.6000e-004	0.0000	10.9954

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.0000e-004	3.8100e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0652	1.0652	3.0000e-005	3.0000e-005	1.0747
Total	4.4000e-004	3.0000e-004	3.8100e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0652	1.0652	3.0000e-005	3.0000e-005	1.0747

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3154					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	0.3391	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

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3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	8.2000e-004	0.0109	3.0000e-005	4.1400e-003	2.0000e-005	4.1600e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1651	3.1651	8.0000e-005	8.0000e-005	3.1919
Total	1.2500e-003	8.2000e-004	0.0109	3.0000e-005	4.1400e-003	2.0000e-005	4.1600e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1651	3.1651	8.0000e-005	8.0000e-005	3.1919

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3154					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1400e-003	0.1388	0.2401	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
Total	0.3225	0.1388	0.2401	3.9000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947

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3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	8.2000e-004	0.0109	3.0000e-005	4.1400e-003	2.0000e-005	4.1600e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1651	3.1651	8.0000e-005	8.0000e-005	3.1919
Total	1.2500e-003	8.2000e-004	0.0109	3.0000e-005	4.1400e-003	2.0000e-005	4.1600e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.1651	3.1651	8.0000e-005	8.0000e-005	3.1919

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0215	0.1443	0.2280	3.7000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	32.1710	32.1710	1.7500e-003	0.0000	32.2149
Total	0.3249	0.1443	0.2280	3.7000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	32.1710	32.1710	1.7500e-003	0.0000	32.2149

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3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	7.1000e-004	9.8000e-003	3.0000e-005	3.9800e-003	2.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	2.9716	2.9716	7.0000e-005	7.0000e-005	2.9957
Total	1.1400e-003	7.1000e-004	9.8000e-003	3.0000e-005	3.9800e-003	2.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	2.9716	2.9716	7.0000e-005	7.0000e-005	2.9957

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3033					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8600e-003	0.1335	0.2309	3.7000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	32.1710	32.1710	1.7500e-003	0.0000	32.2148
Total	0.3102	0.1335	0.2309	3.7000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	32.1710	32.1710	1.7500e-003	0.0000	32.2148

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3.7 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	7.1000e-004	9.8000e-003	3.0000e-005	3.9800e-003	2.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	2.9716	2.9716	7.0000e-005	7.0000e-005	2.9957
Total	1.1400e-003	7.1000e-004	9.8000e-003	3.0000e-005	3.9800e-003	2.0000e-005	4.0000e-003	1.0600e-003	2.0000e-005	1.0800e-003	0.0000	2.9716	2.9716	7.0000e-005	7.0000e-005	2.9957

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2145	0.2381	1.9928	4.1300e-003	0.4576	3.0700e-003	0.4607	0.1223	2.8600e-003	0.1251	0.0000	391.0878	391.0878	0.0254	0.0187	397.2978
Unmitigated	0.2145	0.2381	1.9928	4.1300e-003	0.4576	3.0700e-003	0.4607	0.1223	2.8600e-003	0.1251	0.0000	391.0878	391.0878	0.0254	0.0187	397.2978

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	537.51	537.51	537.51	1,241,437	1,241,437
Total	537.51	537.51	537.51	1,241,437	1,241,437

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.3113	41.3113	6.6800e-003	8.1000e-004	41.7198
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.3113	41.3113	6.6800e-003	8.1000e-004	41.7198
NaturalGas Mitigated	8.1800e-003	0.0699	0.0298	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	81.0001	81.0001	1.5500e-003	1.4900e-003	81.4814
NaturalGas Unmitigated	8.1800e-003	0.0699	0.0298	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	81.0001	81.0001	1.5500e-003	1.4900e-003	81.4814

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.51788e+006	8.1800e-003	0.0699	0.0298	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	81.0001	81.0001	1.5500e-003	1.4900e-003	81.4814
Total		8.1800e-003	0.0699	0.0298	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	81.0001	81.0001	1.5500e-003	1.4900e-003	81.4814

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.51788e+006	8.1800e-003	0.0699	0.0298	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	81.0001	81.0001	1.5500e-003	1.4900e-003	81.4814
Total		8.1800e-003	0.0699	0.0298	4.5000e-004		5.6500e-003	5.6500e-003		5.6500e-003	5.6500e-003	0.0000	81.0001	81.0001	1.5500e-003	1.4900e-003	81.4814

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	446494	41.3113	6.6800e-003	8.1000e-004	41.7198
Total		41.3113	6.6800e-003	8.1000e-004	41.7198

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	446494	41.3113	6.6800e-003	8.1000e-004	41.7198
Total		41.3113	6.6800e-003	8.1000e-004	41.7198

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4856	4.8700e-003	0.4228	2.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	0.6913	0.6913	6.6000e-004	0.0000	0.7079
Unmitigated	0.8216	0.0122	0.9114	1.0300e-003		0.0728	0.0728		0.0728	0.0728	7.2453	2.4703	9.7156	0.0144	4.1000e-004	10.1978

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4007					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.3360	7.3600e-003	0.4885	1.0100e-003		0.0705	0.0705		0.0705	0.0705	7.2453	1.7790	9.0243	0.0137	4.1000e-004	9.4899
Landscaping	0.0127	4.8700e-003	0.4228	2.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	0.6913	0.6913	6.6000e-004	0.0000	0.7079
Total	0.8216	0.0122	0.9114	1.0300e-003		0.0728	0.0728		0.0728	0.0728	7.2453	2.4703	9.7156	0.0144	4.1000e-004	10.1978

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4007					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0127	4.8700e-003	0.4228	2.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	0.6913	0.6913	6.6000e-004	0.0000	0.7079
Total	0.4856	4.8700e-003	0.4228	2.0000e-005		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	0.6913	0.6913	6.6000e-004	0.0000	0.7079

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.6441	0.1214	2.9100e-003	7.5453
Unmitigated	3.7957	0.1214	2.9100e-003	7.6984

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	3.71378 / 2.3413	3.7957	0.1214	2.9100e-003	7.6984
Total		3.7957	0.1214	2.9100e-003	7.6984

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	3.71378 / 1.87304	3.6441	0.1214	2.9100e-003	7.5453
Total		3.6441	0.1214	2.9100e-003	7.5453

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.8968	0.8213	0.0000	34.4286
Unmitigated	13.8968	0.8213	0.0000	34.4286

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	68.46	13.8968	0.8213	0.0000	34.4286
Total		13.8968	0.8213	0.0000	34.4286

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	68.46	13.8968	0.8213	0.0000	34.4286
Total		13.8968	0.8213	0.0000	34.4286

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Honey Creekside Subdivision Project - Bay Area AQMD Air District, Annual

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

**Honey Creekside Subdivision Project
Bay Area AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	57.00	Dwelling Unit	10.60	102,600.00	163

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Acreage adjusted per site plan.
- Construction Phase - Construction phase timing adjusted per applicant-provided questionnaire.
- Grading -
- Demolition -
- Vehicle Trips - Trip generation rate updated per project-specific traffic memo by TJKM.
- Construction Off-road Equipment Mitigation - As noted on AQ Questionnaire, all construction equipment would be Tier 4.
- Area Mitigation - Per AQ Questionnaire, no hearths would be installed.
- Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with the 2019 CalGreen Code.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	600.00
tblConstructionPhase	NumDays	300.00	600.00

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	PhaseEndDate	1/11/2024	12/18/2025
tblConstructionPhase	PhaseEndDate	11/16/2023	12/4/2025
tblConstructionPhase	PhaseEndDate	9/22/2022	8/10/2023
tblConstructionPhase	PhaseEndDate	12/14/2023	8/17/2023
tblConstructionPhase	PhaseEndDate	8/11/2022	6/29/2023
tblConstructionPhase	PhaseStartDate	12/15/2023	9/1/2023
tblConstructionPhase	PhaseStartDate	9/23/2022	8/18/2023
tblConstructionPhase	PhaseStartDate	8/12/2022	6/30/2023
tblConstructionPhase	PhaseStartDate	11/17/2023	8/11/2023
tblGrading	MaterialImported	0.00	11,500.00
tblLandUse	LotAcreage	18.51	10.60
tblVehicleTrips	ST_TR	9.54	9.43
tblVehicleTrips	SU_TR	8.55	9.43
tblVehicleTrips	WD_TR	9.44	9.43

2.0 Emissions Summary

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2225	33.1151	21.2202	0.0441	19.8049	1.6134	21.4182	10.1417	1.4843	11.6260	0.0000	4,311.518 3	4,311.518 3	1.1958	0.0745	4,360.471 0
2023	4.2461	40.8105	30.0506	0.0924	19.8049	1.4778	21.0716	10.1417	1.3615	11.3071	0.0000	9,309.304 1	9,309.304 1	2.0518	0.5029	9,510.472 3
2024	4.1293	14.9547	18.6144	0.0329	0.2460	0.6768	0.9228	0.0662	0.6402	0.7064	0.0000	3,143.278 9	3,143.278 9	0.6270	0.0230	3,165.812 6
2025	4.0113	13.9029	18.4948	0.0328	0.2460	0.5816	0.8276	0.0662	0.5501	0.6163	0.0000	3,137.500 3	3,137.500 3	0.6227	0.0224	3,159.748 6
Maximum	4.2461	40.8105	30.0506	0.0924	19.8049	1.6134	21.4182	10.1417	1.4843	11.6260	0.0000	9,309.304 1	9,309.304 1	2.0518	0.5029	9,510.472 3

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	61.8025	1.1915	81.0946	0.1441		10.8289	10.8289		10.8289	10.8289	1,161.5653	360.5263	1,522.0916	1.4443	0.0820	1,582.6253
Energy	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
Mobile	1.3145	1.2038	10.8827	0.0239	2.6131	0.0169	2.6299	0.6960	0.0157	0.7117		2,496.1744	2,496.1744	0.1441	0.1076	2,531.8285
Total	63.1619	2.7786	92.1403	0.1705	2.6131	10.8768	13.4898	0.6960	10.8756	11.5716	1,161.5653	3,345.9460	4,507.5113	1.5978	0.1985	4,606.6065

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7325	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.1100e-003	0.0000	8.6702
Energy	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
Mobile	1.3145	1.2038	10.8827	0.0239	2.6131	0.0169	2.6299	0.6960	0.0157	0.7117		2,496.1744	2,496.1744	0.1441	0.1076	2,531.8285
Total	4.0918	1.6412	15.7439	0.0266	2.6131	0.0739	2.6870	0.6960	0.0728	0.7687	0.0000	2,993.8872	2,993.8872	0.1616	0.1165	3,032.6514

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	93.52	40.93	82.91	84.38	0.00	99.32	80.08	0.00	99.33	93.36	100.00	10.52	33.58	89.89	41.29	34.17

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	7/28/2022	5	20	
2	Site Preparation	Site Preparation	7/29/2022	6/29/2023	5	240	
3	Grading	Grading	6/30/2023	8/10/2023	5	30	
4	Building Construction	Building Construction	8/18/2023	12/4/2025	5	600	
5	Paving	Paving	8/11/2023	8/17/2023	5	5	
6	Architectural Coating	Architectural Coating	9/1/2023	12/18/2025	5	600	

Acres of Grading (Site Preparation Phase): 360

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 207,765; Residential Outdoor: 69,255; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

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

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	131.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,438.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	21.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0309	1.0874	0.2383	4.1600e-003	0.1146	0.0101	0.1247	0.0314	9.6700e-003	0.0411		452.5277	452.5277	0.0149	0.0717	474.2593
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
Total	0.0745	1.1137	0.6261	5.2600e-003	0.2378	0.0108	0.2485	0.0641	0.0103	0.0744		564.7372	564.7372	0.0180	0.0745	587.3790

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0309	1.0874	0.2383	4.1600e-003	0.1146	0.0101	0.1247	0.0314	9.6700e-003	0.0411		452.5277	452.5277	0.0149	0.0717	474.2593
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
Total	0.0745	1.1137	0.6261	5.2600e-003	0.2378	0.0108	0.2485	0.0641	0.0103	0.0744		564.7372	564.7372	0.0180	0.0745	587.3790

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0524	0.0316	0.4653	1.3200e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		134.6513	134.6513	3.6700e-003	3.3600e-003	135.7437
Total	0.0524	0.0316	0.4653	1.3200e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		134.6513	134.6513	3.6700e-003	3.3600e-003	135.7437

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	0.6967	12.1620	22.9600	0.0380	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0524	0.0316	0.4653	1.3200e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		134.6513	134.6513	3.6700e-003	3.3600e-003	135.7437
Total	0.0524	0.0316	0.4653	1.3200e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		134.6513	134.6513	3.6700e-003	3.3600e-003	135.7437

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0487	0.0280	0.4303	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		131.1921	131.1921	3.3100e-003	3.1100e-003	132.2023
Total	0.0487	0.0280	0.4303	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		131.1921	131.1921	3.3100e-003	3.1100e-003	132.2023

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	0.6967	12.1620	22.9600	0.0381	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0487	0.0280	0.4303	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		131.1921	131.1921	3.3100e-003	3.1100e-003	132.2023
Total	0.0487	0.0280	0.4303	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		131.1921	131.1921	3.3100e-003	3.1100e-003	132.2023

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2469	0.0000	9.2469	3.6603	0.0000	3.6603			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2469	1.4245	10.6714	3.6603	1.3105	4.9709		6,011.4777	6,011.4777	1.9442		6,060.0836

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1026	6.2639	1.5213	0.0289	0.8384	0.0525	0.8909	0.2298	0.0503	0.2801		3,152.0574	3,152.0574	0.1039	0.4995	3,303.4973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0541	0.0311	0.4781	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		145.7690	145.7690	3.6800e-003	3.4600e-003	146.8915
Total	0.1567	6.2949	1.9994	0.0303	1.0027	0.0533	1.0560	0.2734	0.0510	0.3244		3,297.8264	3,297.8264	0.1076	0.5029	3,450.3887

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2469	0.0000	9.2469	3.6603	0.0000	3.6603			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6
Total	1.0110	19.2707	36.7226	0.0621	9.2469	0.1015	9.3485	3.6603	0.1015	3.7619	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1026	6.2639	1.5213	0.0289	0.8384	0.0525	0.8909	0.2298	0.0503	0.2801		3,152.057 4	3,152.057 4	0.1039	0.4995	3,303.497 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0541	0.0311	0.4781	1.4200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		145.7690	145.7690	3.6800e-003	3.4600e-003	146.8915
Total	0.1567	6.2949	1.9994	0.0303	1.0027	0.0533	1.0560	0.2734	0.0510	0.3244		3,297.826 4	3,297.826 4	0.1076	0.5029	3,450.388 7

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5300e-003	0.2574	0.0822	1.2200e-003	0.0406	1.5600e-003	0.0422	0.0117	1.4900e-003	0.0132		130.4766	130.4766	2.6700e-003	0.0193	136.2914
Worker	0.0568	0.0326	0.5020	1.5000e-003	0.1725	8.6000e-004	0.1734	0.0458	7.9000e-004	0.0466		153.0574	153.0574	3.8600e-003	3.6300e-003	154.2360
Total	0.0633	0.2900	0.5842	2.7200e-003	0.2132	2.4200e-003	0.2156	0.0575	2.2800e-003	0.0597		283.5341	283.5341	6.5300e-003	0.0229	290.5274

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5300e-003	0.2574	0.0822	1.2200e-003	0.0406	1.5600e-003	0.0422	0.0117	1.4900e-003	0.0132		130.4766	130.4766	2.6700e-003	0.0193	136.2914
Worker	0.0568	0.0326	0.5020	1.5000e-003	0.1725	8.6000e-004	0.1734	0.0458	7.9000e-004	0.0466		153.0574	153.0574	3.8600e-003	3.6300e-003	154.2360
Total	0.0633	0.2900	0.5842	2.7200e-003	0.2132	2.4200e-003	0.2156	0.0575	2.2800e-003	0.0597		283.5341	283.5341	6.5300e-003	0.0229	290.5274

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3400e-003	0.2575	0.0804	1.2000e-003	0.0406	1.5700e-003	0.0422	0.0117	1.5000e-003	0.0132		128.4416	128.4416	2.6500e-003	0.0190	134.1657
Worker	0.0531	0.0291	0.4679	1.4500e-003	0.1725	8.1000e-004	0.1733	0.0458	7.5000e-004	0.0465		149.2598	149.2598	3.4900e-003	3.3800e-003	150.3558
Total	0.0594	0.2866	0.5483	2.6500e-003	0.2132	2.3800e-003	0.2155	0.0575	2.2500e-003	0.0597		277.7015	277.7015	6.1400e-003	0.0224	284.5215

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3400e-003	0.2575	0.0804	1.2000e-003	0.0406	1.5700e-003	0.0422	0.0117	1.5000e-003	0.0132		128.4416	128.4416	2.6500e-003	0.0190	134.1657
Worker	0.0531	0.0291	0.4679	1.4500e-003	0.1725	8.1000e-004	0.1733	0.0458	7.5000e-004	0.0465		149.2598	149.2598	3.4900e-003	3.3800e-003	150.3558
Total	0.0594	0.2866	0.5483	2.6500e-003	0.2132	2.3800e-003	0.2155	0.0575	2.2500e-003	0.0597		277.7015	277.7015	6.1400e-003	0.0224	284.5215

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1900e-003	0.2565	0.0790	1.1800e-003	0.0406	1.5700e-003	0.0422	0.0117	1.5000e-003	0.0132		126.1558	126.1558	2.6400e-003	0.0186	131.7765
Worker	0.0498	0.0263	0.4385	1.4000e-003	0.1725	7.8000e-004	0.1733	0.0458	7.2000e-004	0.0465		145.6746	145.6746	3.1700e-003	3.1700e-003	146.6994
Total	0.0560	0.2828	0.5175	2.5800e-003	0.2132	2.3500e-003	0.2155	0.0575	2.2200e-003	0.0597		271.8304	271.8304	5.8100e-003	0.0218	278.4759

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1900e-003	0.2565	0.0790	1.1800e-003	0.0406	1.5700e-003	0.0422	0.0117	1.5000e-003	0.0132		126.1558	126.1558	2.6400e-003	0.0186	131.7765
Worker	0.0498	0.0263	0.4385	1.4000e-003	0.1725	7.8000e-004	0.1733	0.0458	7.2000e-004	0.0465		145.6746	145.6746	3.1700e-003	3.1700e-003	146.6994
Total	0.0560	0.2828	0.5175	2.5800e-003	0.2132	2.3500e-003	0.2155	0.0575	2.2200e-003	0.0597		271.8304	271.8304	5.8100e-003	0.0218	278.4759

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
Total	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
Total	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	2.5991	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0108	6.2100e-003	0.0956	2.8000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		29.1538	29.1538	7.4000e-004	6.9000e-004	29.3783
Total	0.0108	6.2100e-003	0.0956	2.8000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		29.1538	29.1538	7.4000e-004	6.9000e-004	29.3783

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	2.4620	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0108	6.2100e-003	0.0956	2.8000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		29.1538	29.1538	7.4000e-004	6.9000e-004	29.3783
Total	0.0108	6.2100e-003	0.0956	2.8000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		29.1538	29.1538	7.4000e-004	6.9000e-004	29.3783

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	2.5882	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	5.5500e-003	0.0891	2.8000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.4000e-004	8.8600e-003		28.4305	28.4305	6.6000e-004	6.4000e-004	28.6392
Total	0.0101	5.5500e-003	0.0891	2.8000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.4000e-004	8.8600e-003		28.4305	28.4305	6.6000e-004	6.4000e-004	28.6392

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	2.4620	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	5.5500e-003	0.0891	2.8000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.4000e-004	8.8600e-003		28.4305	28.4305	6.6000e-004	6.4000e-004	28.6392
Total	0.0101	5.5500e-003	0.0891	2.8000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.4000e-004	8.8600e-003		28.4305	28.4305	6.6000e-004	6.4000e-004	28.6392

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	2.5783	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4900e-003	5.0000e-003	0.0835	2.7000e-004	0.0329	1.5000e-004	0.0330	8.7200e-003	1.4000e-004	8.8500e-003		27.7475	27.7475	6.0000e-004	6.0000e-004	27.9427
Total	9.4900e-003	5.0000e-003	0.0835	2.7000e-004	0.0329	1.5000e-004	0.0330	8.7200e-003	1.4000e-004	8.8500e-003		27.7475	27.7475	6.0000e-004	6.0000e-004	27.9427

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

3.7 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	2.4620	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4900e-003	5.0000e-003	0.0835	2.7000e-004	0.0329	1.5000e-004	0.0330	8.7200e-003	1.4000e-004	8.8500e-003		27.7475	27.7475	6.0000e-004	6.0000e-004	27.9427
Total	9.4900e-003	5.0000e-003	0.0835	2.7000e-004	0.0329	1.5000e-004	0.0330	8.7200e-003	1.4000e-004	8.8500e-003		27.7475	27.7475	6.0000e-004	6.0000e-004	27.9427

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3145	1.2038	10.8827	0.0239	2.6131	0.0169	2.6299	0.6960	0.0157	0.7117		2,496.174 4	2,496.174 4	0.1441	0.1076	2,531.828 5
Unmitigated	1.3145	1.2038	10.8827	0.0239	2.6131	0.0169	2.6299	0.6960	0.0157	0.7117		2,496.174 4	2,496.174 4	0.1441	0.1076	2,531.828 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	537.51	537.51	537.51	1,241,437	1,241,437
Total	537.51	537.51	537.51	1,241,437	1,241,437

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
NaturalGas Unmitigated	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	4158.59	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
Total		0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	4.15859	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
Total		0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7325	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.1100e-003	0.0000	8.6702
Unmitigated	61.8025	1.1915	81.0946	0.1441		10.8289	10.8289		10.8289	10.8289	1,161.5653	360.5263	1,522.0916	1.4443	0.0820	1,582.6253

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3958					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	59.0701	1.1374	76.3965	0.1439		10.8028	10.8028		10.8028	10.8028	1,161.565 3	352.0588	1,513.624 1	1.4362	0.0820	1,573.955 2
Landscaping	0.1411	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.1100e-003		8.6702
Total	61.8026	1.1915	81.0946	0.1441		10.8289	10.8289		10.8289	10.8289	1,161.565 3	360.5263	1,522.091 6	1.4443	0.0820	1,582.625 4

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3958					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1411	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.1100e-003		8.6702
Total	2.7325	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.1100e-003	0.0000	8.6702

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

**Honey Creekside Subdivision Project
Bay Area AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	57.00	Dwelling Unit	10.60	102,600.00	163

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2025
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage adjusted per site plan.

Construction Phase - Construction phase timing adjusted per applicant-provided questionnaire.

Grading -

Demolition -

Vehicle Trips - Trip generation rate updated per project-specific traffic memo by TJKM.

Construction Off-road Equipment Mitigation - As noted on AQ Questionnaire, all construction equipment would be Tier 4.

Area Mitigation - Per AQ Questionnaire, no hearths would be installed.

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with the 2019 CalGreen Code.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	600.00
tblConstructionPhase	NumDays	300.00	600.00

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	10.00	240.00
tblConstructionPhase	PhaseEndDate	1/11/2024	12/18/2025
tblConstructionPhase	PhaseEndDate	11/16/2023	12/4/2025
tblConstructionPhase	PhaseEndDate	9/22/2022	8/10/2023
tblConstructionPhase	PhaseEndDate	12/14/2023	8/17/2023
tblConstructionPhase	PhaseEndDate	8/11/2022	6/29/2023
tblConstructionPhase	PhaseStartDate	12/15/2023	9/1/2023
tblConstructionPhase	PhaseStartDate	9/23/2022	8/18/2023
tblConstructionPhase	PhaseStartDate	8/12/2022	6/30/2023
tblConstructionPhase	PhaseStartDate	11/17/2023	8/11/2023
tblGrading	MaterialImported	0.00	11,500.00
tblLandUse	LotAcreage	18.51	10.60
tblVehicleTrips	ST_TR	9.54	9.43
tblVehicleTrips	SU_TR	8.55	9.43
tblVehicleTrips	WD_TR	9.44	9.43

2.0 Emissions Summary

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2236	33.1225	21.2061	0.0440	19.8049	1.6134	21.4182	10.1417	1.4843	11.6260	0.0000	4,303.6918	4,303.6918	1.1963	0.0749	4,352.7883
2023	4.2476	41.1789	30.0500	0.0923	19.8049	1.4779	21.0716	10.1417	1.3616	11.3071	0.0000	9,301.9401	9,301.9401	2.0520	0.5040	9,503.4162
2024	4.1310	14.9778	18.5955	0.0327	0.2460	0.6768	0.9228	0.0662	0.6402	0.7064	0.0000	3,130.8984	3,130.8984	0.6276	0.0237	3,153.6412
2025	4.0130	13.9251	18.4787	0.0327	0.2460	0.5816	0.8276	0.0662	0.5501	0.6163	0.0000	3,125.4446	3,125.4446	0.6232	0.0230	3,147.8886
Maximum	4.2476	41.1789	30.0500	0.0923	19.8049	1.6134	21.4182	10.1417	1.4843	11.6260	0.0000	9,301.9401	9,301.9401	2.0520	0.5040	9,503.4162

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	61.8025	1.1915	81.0946	0.1441		10.8289	10.8289		10.8289	10.8289	1,161.5653	360.5263	1,522.0916	1.4443	0.0820	1,582.6253
Energy	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
Mobile	1.1795	1.3834	11.6927	0.0226	2.6131	0.0169	2.6299	0.6960	0.0157	0.7117		2,357.6298	2,357.6298	0.1632	0.1178	2,396.8058
Total	63.0268	2.9581	92.9504	0.1692	2.6131	10.8768	13.4898	0.6960	10.8756	11.5716	1,161.5653	3,207.4015	4,368.9668	1.6169	0.2087	4,471.5839

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7325	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.1100e-003	0.0000	8.6702
Energy	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
Mobile	1.1795	1.3834	11.6927	0.0226	2.6131	0.0169	2.6299	0.6960	0.0157	0.7117		2,357.6298	2,357.6298	0.1632	0.1178	2,396.8058
Total	3.9568	1.8207	16.5539	0.0253	2.6131	0.0739	2.6870	0.6960	0.0728	0.7688	0.0000	2,855.3427	2,855.3427	0.1807	0.1267	2,897.6287

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	93.72	38.45	82.19	85.04	0.00	99.32	80.08	0.00	99.33	93.36	100.00	10.98	34.64	88.83	39.27	35.20

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2022	7/28/2022	5	20	
2	Site Preparation	Site Preparation	7/29/2022	6/29/2023	5	240	
3	Grading	Grading	6/30/2023	8/10/2023	5	30	
4	Building Construction	Building Construction	8/18/2023	12/4/2025	5	600	
5	Paving	Paving	8/11/2023	8/17/2023	5	5	
6	Architectural Coating	Architectural Coating	9/1/2023	12/18/2025	5	600	

Acres of Grading (Site Preparation Phase): 360

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 207,765; Residential Outdoor: 69,255; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	131.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,438.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	21.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0302	1.1474	0.2422	4.1600e-003	0.1146	0.0101	0.1247	0.0314	9.6900e-003	0.0411		452.6748	452.6748	0.0149	0.0717	474.4136
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0325	0.3699	1.0200e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		104.2358	104.2358	3.4600e-003	3.2200e-003	105.2827
Total	0.0747	1.1798	0.6120	5.1800e-003	0.2378	0.0108	0.2486	0.0641	0.0103	0.0744		556.9106	556.9106	0.0184	0.0749	579.6963

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0302	1.1474	0.2422	4.1600e-003	0.1146	0.0101	0.1247	0.0314	9.6900e-003	0.0411		452.6748	452.6748	0.0149	0.0717	474.4136
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0446	0.0325	0.3699	1.0200e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		104.2358	104.2358	3.4600e-003	3.2200e-003	105.2827
Total	0.0747	1.1798	0.6120	5.1800e-003	0.2378	0.0108	0.2486	0.0641	0.0103	0.0744		556.9106	556.9106	0.0184	0.0749	579.6963

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0535	0.0390	0.4438	1.2300e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		125.0830	125.0830	4.1600e-003	3.8700e-003	126.3392
Total	0.0535	0.0390	0.4438	1.2300e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		125.0830	125.0830	4.1600e-003	3.8700e-003	126.3392

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	0.6967	12.1620	22.9600	0.0380	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0535	0.0390	0.4438	1.2300e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		125.0830	125.0830	4.1600e-003	3.8700e-003	126.3392
Total	0.0535	0.0390	0.4438	1.2300e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		125.0830	125.0830	4.1600e-003	3.8700e-003	126.3392

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0499	0.0345	0.4121	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		121.8929	121.8929	3.7600e-003	3.5800e-003	123.0546
Total	0.0499	0.0345	0.4121	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		121.8929	121.8929	3.7600e-003	3.5800e-003	123.0546

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	0.6967	12.1620	22.9600	0.0381	19.6570	0.0621	19.7191	10.1025	0.0621	10.1645	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0499	0.0345	0.4121	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		121.8929	121.8929	3.7600e-003	3.5800e-003	123.0546
Total	0.0499	0.0345	0.4121	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		121.8929	121.8929	3.7600e-003	3.5800e-003	123.0546

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2469	0.0000	9.2469	3.6603	0.0000	3.6603			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2469	1.4245	10.6714	3.6603	1.3105	4.9709		6,011.4777	6,011.4777	1.9442		6,060.0836

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0964	6.6250	1.5409	0.0289	0.8384	0.0526	0.8910	0.2298	0.0503	0.2801		3,155.0258	3,155.0258	0.1036	0.5000	3,306.6053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0555	0.0383	0.4579	1.3200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		135.4366	135.4366	4.1800e-003	3.9800e-003	136.7273
Total	0.1518	6.6633	1.9988	0.0303	1.0027	0.0534	1.0561	0.2734	0.0511	0.3245		3,290.4624	3,290.4624	0.1078	0.5040	3,443.3326

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2469	0.0000	9.2469	3.6603	0.0000	3.6603			0.0000			0.0000
Off-Road	1.0110	19.2707	36.7226	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	1.0110	19.2707	36.7226	0.0621	9.2469	0.1015	9.3485	3.6603	0.1015	3.7619	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0964	6.6250	1.5409	0.0289	0.8384	0.0526	0.8910	0.2298	0.0503	0.2801		3,155.0258	3,155.0258	0.1036	0.5000	3,306.6053
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0555	0.0383	0.4579	1.3200e-003	0.1643	8.1000e-004	0.1651	0.0436	7.5000e-004	0.0443		135.4366	135.4366	4.1800e-003	3.9800e-003	136.7273
Total	0.1518	6.6633	1.9988	0.0303	1.0027	0.0534	1.0561	0.2734	0.0511	0.3245		3,290.4624	3,290.4624	0.1078	0.5040	3,443.3326

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3100e-003	0.2723	0.0850	1.2200e-003	0.0406	1.5600e-003	0.0422	0.0117	1.5000e-003	0.0132		130.6632	130.6632	2.6500e-003	0.0193	136.4922
Worker	0.0583	0.0403	0.4808	1.3900e-003	0.1725	8.6000e-004	0.1734	0.0458	7.9000e-004	0.0466		142.2084	142.2084	4.3900e-003	4.1800e-003	143.5637
Total	0.0646	0.3126	0.5658	2.6100e-003	0.2132	2.4200e-003	0.2156	0.0575	2.2900e-003	0.0597		272.8717	272.8717	7.0400e-003	0.0235	280.0559

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3100e-003	0.2723	0.0850	1.2200e-003	0.0406	1.5600e-003	0.0422	0.0117	1.5000e-003	0.0132		130.6632	130.6632	2.6500e-003	0.0193	136.4922
Worker	0.0583	0.0403	0.4808	1.3900e-003	0.1725	8.6000e-004	0.1734	0.0458	7.9000e-004	0.0466		142.2084	142.2084	4.3900e-003	4.1800e-003	143.5637
Total	0.0646	0.3126	0.5658	2.6100e-003	0.2132	2.4200e-003	0.2156	0.0575	2.2900e-003	0.0597		272.8717	272.8717	7.0400e-003	0.0235	280.0559

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.2724	0.0832	1.2000e-003	0.0406	1.5800e-003	0.0422	0.0117	1.5100e-003	0.0132		128.6297	128.6297	2.6400e-003	0.0190	134.3674
Worker	0.0546	0.0359	0.4497	1.3400e-003	0.1725	8.1000e-004	0.1733	0.0458	7.5000e-004	0.0465		138.7023	138.7023	3.9800e-003	3.8900e-003	139.9624
Total	0.0608	0.3084	0.5329	2.5400e-003	0.2132	2.3900e-003	0.2155	0.0575	2.2600e-003	0.0597		267.3320	267.3320	6.6200e-003	0.0229	274.3298

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.2724	0.0832	1.2000e-003	0.0406	1.5800e-003	0.0422	0.0117	1.5100e-003	0.0132		128.6297	128.6297	2.6400e-003	0.0190	134.3674
Worker	0.0546	0.0359	0.4497	1.3400e-003	0.1725	8.1000e-004	0.1733	0.0458	7.5000e-004	0.0465		138.7023	138.7023	3.9800e-003	3.8900e-003	139.9624
Total	0.0608	0.3084	0.5329	2.5400e-003	0.2132	2.3900e-003	0.2155	0.0575	2.2600e-003	0.0597		267.3320	267.3320	6.6200e-003	0.0229	274.3298

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9500e-003	0.2714	0.0818	1.1800e-003	0.0406	1.5800e-003	0.0422	0.0117	1.5100e-003	0.0132		126.3441	126.3441	2.6200e-003	0.0187	131.9781
Worker	0.0515	0.0324	0.4226	1.3000e-003	0.1725	7.8000e-004	0.1733	0.0458	7.2000e-004	0.0465		135.3896	135.3896	3.6200e-003	3.6500e-003	136.5677
Total	0.0575	0.3038	0.5044	2.4800e-003	0.2132	2.3600e-003	0.2155	0.0575	2.2300e-003	0.0597		261.7337	261.7337	6.2400e-003	0.0223	268.5458

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5335	10.9122	17.8738	0.0270		0.0846	0.0846		0.0846	0.0846	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9500e-003	0.2714	0.0818	1.1800e-003	0.0406	1.5800e-003	0.0422	0.0117	1.5100e-003	0.0132		126.3441	126.3441	2.6200e-003	0.0187	131.9781
Worker	0.0515	0.0324	0.4226	1.3000e-003	0.1725	7.8000e-004	0.1733	0.0458	7.2000e-004	0.0465		135.3896	135.3896	3.6200e-003	3.6500e-003	136.5677
Total	0.0575	0.3038	0.5044	2.4800e-003	0.2132	2.3600e-003	0.2155	0.0575	2.2300e-003	0.0597		261.7337	261.7337	6.2400e-003	0.0223	268.5458

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
Total	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.3341	10.0395	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
Total	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	2.5991	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	7.6700e-003	0.0916	2.6000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		27.0873	27.0873	8.4000e-004	8.0000e-004	27.3455
Total	0.0111	7.6700e-003	0.0916	2.6000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		27.0873	27.0873	8.4000e-004	8.0000e-004	27.3455

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	2.4620	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0111	7.6700e-003	0.0916	2.6000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		27.0873	27.0873	8.4000e-004	8.0000e-004	27.3455
Total	0.0111	7.6700e-003	0.0916	2.6000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		27.0873	27.0873	8.4000e-004	8.0000e-004	27.3455

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	2.5882	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	6.8500e-003	0.0857	2.6000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.4000e-004	8.8600e-003		26.4195	26.4195	7.6000e-004	7.4000e-004	26.6595
Total	0.0104	6.8500e-003	0.0857	2.6000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.4000e-004	8.8600e-003		26.4195	26.4195	7.6000e-004	7.4000e-004	26.6595

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
Total	2.4620	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0104	6.8500e-003	0.0857	2.6000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.4000e-004	8.8600e-003		26.4195	26.4195	7.6000e-004	7.4000e-004	26.6595
Total	0.0104	6.8500e-003	0.0857	2.6000e-004	0.0329	1.6000e-004	0.0330	8.7200e-003	1.4000e-004	8.8600e-003		26.4195	26.4195	7.6000e-004	7.4000e-004	26.6595

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	2.5783	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8100e-003	6.1700e-003	0.0805	2.5000e-004	0.0329	1.5000e-004	0.0330	8.7200e-003	1.4000e-004	8.8500e-003		25.7885	25.7885	6.9000e-004	7.0000e-004	26.0129
Total	9.8100e-003	6.1700e-003	0.0805	2.5000e-004	0.0329	1.5000e-004	0.0330	8.7200e-003	1.4000e-004	8.8500e-003		25.7885	25.7885	6.9000e-004	7.0000e-004	26.0129

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

3.7 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	2.4620	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8100e-003	6.1700e-003	0.0805	2.5000e-004	0.0329	1.5000e-004	0.0330	8.7200e-003	1.4000e-004	8.8500e-003		25.7885	25.7885	6.9000e-004	7.0000e-004	26.0129
Total	9.8100e-003	6.1700e-003	0.0805	2.5000e-004	0.0329	1.5000e-004	0.0330	8.7200e-003	1.4000e-004	8.8500e-003		25.7885	25.7885	6.9000e-004	7.0000e-004	26.0129

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1795	1.3834	11.6927	0.0226	2.6131	0.0169	2.6299	0.6960	0.0157	0.7117		2,357.6298	2,357.6298	0.1632	0.1178	2,396.8058
Unmitigated	1.1795	1.3834	11.6927	0.0226	2.6131	0.0169	2.6299	0.6960	0.0157	0.7117		2,357.6298	2,357.6298	0.1632	0.1178	2,396.8058

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	537.51	537.51	537.51	1,241,437	1,241,437
Total	537.51	537.51	537.51	1,241,437	1,241,437

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
NaturalGas Unmitigated	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	4158.59	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
Total		0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	4.15859	0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527
Total		0.0449	0.3832	0.1631	2.4500e-003		0.0310	0.0310		0.0310	0.0310		489.2454	489.2454	9.3800e-003	8.9700e-003	492.1527

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7325	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.1100e-003	0.0000	8.6702
Unmitigated	61.8025	1.1915	81.0946	0.1441		10.8289	10.8289		10.8289	10.8289	1,161.5653	360.5263	1,522.0916	1.4443	0.0820	1,582.6253

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3958					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	59.0701	1.1374	76.3965	0.1439		10.8028	10.8028		10.8028	10.8028	1,161.565 3	352.0588	1,513.624 1	1.4362	0.0820	1,573.955 2
Landscaping	0.1411	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.1100e-003		8.6702
Total	61.8026	1.1915	81.0946	0.1441		10.8289	10.8289		10.8289	10.8289	1,161.565 3	360.5263	1,522.091 6	1.4443	0.0820	1,582.625 4

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3958					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1411	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261		8.4675	8.4675	8.1100e-003		8.6702
Total	2.7325	0.0541	4.6981	2.5000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	8.4675	8.4675	8.1100e-003	0.0000	8.6702

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Honey Creekside Subdivision Project - Bay Area AQMD Air District, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Honey Creekside Subdivision Project

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

Bay Area AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.05	0.12	-0.01	0.00	0.93	0.93	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.61	0.17	-0.10	0.00	0.85	0.84	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.76	0.45	-0.19	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.67	0.37	-0.29	0.00	0.90	0.89	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.65	0.01	-0.18	0.00	0.93	0.92	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.75	0.60	-0.21	0.00	0.96	0.95	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Honey Creekside Subdivision Project

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 4 Interim	1	1	No Change	0.00
Excavators	Diesel	Tier 4 Interim	5	5	No Change	0.00
Concrete/Industrial Saws	Diesel	Tier 4 Interim	1	1	No Change	0.00
Cranes	Diesel	Tier 4 Interim	1	1	No Change	0.00
Forklifts	Diesel	Tier 4 Interim	3	3	No Change	0.00
Graders	Diesel	Tier 4 Interim	1	1	No Change	0.00
Pavers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Rollers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 4 Interim	6	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	9	9	No Change	0.00
Generator Sets	Diesel	Tier 4 Interim	1	1	No Change	0.00
Paving Equipment	Diesel	Tier 4 Interim	2	2	No Change	0.00
Scrapers	Diesel	Tier 4 Interim	2	2	No Change	0.00
Welders	Diesel	Tier 4 Interim	1	1	No Change	0.00

Honey Creekside Subdivision Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	5.34500E-002	3.60030E-001	5.42960E-001	8.90000E-004	1.75100E-002	1.75100E-002	0.00000E+000	7.65976E+001	7.65976E+001	4.30000E-003	0.00000E+000	7.67050E+001
Concrete/Industrial Saws	3.58000E-003	2.80100E-002	3.66500E-002	6.00000E-005	1.50000E-003	1.50000E-003	0.00000E+000	5.37656E+000	5.37656E+000	2.90000E-004	0.00000E+000	5.38390E+000
Cranes	8.59000E-002	8.97340E-001	4.64320E-001	1.51000E-003	3.76600E-002	3.46500E-002	0.00000E+000	1.33074E+002	1.33074E+002	4.30400E-002	0.00000E+000	1.34150E+002
Excavators	1.17300E-002	9.97700E-002	1.95390E-001	3.10000E-004	4.85000E-003	4.46000E-003	0.00000E+000	2.72188E+001	2.72188E+001	8.80000E-003	0.00000E+000	2.74389E+001
Forklifts	8.33300E-002	7.82550E-001	1.02415E+000	1.38000E-003	4.45000E-002	4.09400E-002	0.00000E+000	1.20862E+002	1.20862E+002	3.90900E-002	0.00000E+000	1.21839E+002
Generator Sets	8.42600E-002	7.53530E-001	1.09890E+000	1.97000E-003	3.22000E-002	3.22000E-002	0.00000E+000	1.69562E+002	1.69562E+002	6.72000E-003	0.00000E+000	1.69730E+002
Graders	5.75000E-003	6.98000E-002	2.53900E-002	1.00000E-004	2.26000E-003	2.08000E-003	0.00000E+000	8.72061E+000	8.72061E+000	2.82000E-003	0.00000E+000	8.79112E+000
Pavers	9.60000E-004	9.41000E-003	1.44200E-002	2.00000E-005	4.40000E-004	4.10000E-004	0.00000E+000	2.06483E+000	2.06483E+000	6.70000E-004	0.00000E+000	2.08153E+000
Paving Equipment	8.50000E-004	8.01000E-003	1.27800E-002	2.00000E-005	3.90000E-004	3.60000E-004	0.00000E+000	1.78927E+000	1.78927E+000	5.80000E-004	0.00000E+000	1.80374E+000
Rollers	7.70000E-004	8.05000E-003	9.26000E-003	1.00000E-005	4.40000E-004	4.10000E-004	0.00000E+000	1.15261E+000	1.15261E+000	3.70000E-004	0.00000E+000	1.16193E+000
Rubber Tired Dozers	2.98870E-001	3.12603E+000	1.31572E+000	3.37000E-003	1.44750E-001	1.33170E-001	0.00000E+000	2.96352E+002	2.96352E+002	9.58500E-002	0.00000E+000	2.98748E+002
Scrapers	2.36000E-002	2.48500E-001	1.84110E-001	4.60000E-004	9.74000E-003	8.96000E-003	0.00000E+000	4.00104E+001	4.00104E+001	1.29400E-002	0.00000E+000	4.03339E+001
Tractors/Loaders/Backhoes	1.90690E-001	1.92984E+000	2.89755E+000	4.04000E-003	9.14300E-002	8.41200E-002	0.00000E+000	3.55107E+002	3.55107E+002	1.14850E-001	0.00000E+000	3.57978E+002
Welders	6.97000E-002	4.11450E-001	4.98330E-001	7.70000E-004	1.38100E-002	1.38100E-002	0.00000E+000	5.64662E+001	5.64662E+001	5.67000E-003	0.00000E+000	5.66078E+001

Honey Creekside Subdivision Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.63400E-002	3.17950E-001	5.49720E-001	8.90000E-004	1.19000E-003	1.19000E-003	0.00000E+000	7.65975E+001	7.65975E+001	4.30000E-003	0.00000E+000	7.67049E+001
Concrete/Industrial Saws	1.15000E-003	2.23200E-002	3.85900E-002	6.00000E-005	8.00000E-005	8.00000E-005	0.00000E+000	5.37656E+000	5.37656E+000	2.90000E-004	0.00000E+000	5.38389E+000
Cranes	2.48100E-002	4.00090E-001	8.06370E-001	1.51000E-003	2.48000E-003	2.48000E-003	0.00000E+000	1.33074E+002	1.33074E+002	4.30400E-002	0.00000E+000	1.34150E+002
Excavators	3.81000E-003	1.36600E-001	2.35080E-001	3.10000E-004	5.10000E-004	5.10000E-004	0.00000E+000	2.72188E+001	2.72188E+001	8.80000E-003	0.00000E+000	2.74389E+001
Forklifts	3.10800E-002	6.04640E-001	1.04541E+000	1.38000E-003	2.26000E-003	2.26000E-003	0.00000E+000	1.20862E+002	1.20862E+002	3.90900E-002	0.00000E+000	1.21839E+002
Generator Sets	3.61800E-002	7.03830E-001	1.21691E+000	1.97000E-003	2.63000E-003	2.63000E-003	0.00000E+000	1.69562E+002	1.69562E+002	6.72000E-003	0.00000E+000	1.69730E+002
Graders	1.62000E-003	2.61700E-002	5.27400E-002	1.00000E-004	1.60000E-004	1.60000E-004	0.00000E+000	8.72060E+000	8.72060E+000	2.82000E-003	0.00000E+000	8.79111E+000
Pavers	2.90000E-004	1.03500E-002	1.78200E-002	2.00000E-005	4.00000E-005	4.00000E-005	0.00000E+000	2.06483E+000	2.06483E+000	6.70000E-004	0.00000E+000	2.08152E+000
Paving Equipment	2.50000E-004	9.01000E-003	1.55100E-002	2.00000E-005	3.00000E-005	3.00000E-005	0.00000E+000	1.78927E+000	1.78927E+000	5.80000E-004	0.00000E+000	1.80374E+000
Rollers	2.90000E-004	5.74000E-003	9.92000E-003	1.00000E-005	2.00000E-005	2.00000E-005	0.00000E+000	1.15261E+000	1.15261E+000	3.70000E-004	0.00000E+000	1.16193E+000
Rubber Tired Dozers	5.50600E-002	8.87910E-001	1.78958E+000	3.37000E-003	5.51000E-003	5.51000E-003	0.00000E+000	2.96351E+002	2.96351E+002	9.58500E-002	0.00000E+000	2.98747E+002
Scrapers	7.46000E-003	1.20240E-001	2.42340E-001	4.60000E-004	7.50000E-004	7.50000E-004	0.00000E+000	4.00103E+001	4.00103E+001	1.29400E-002	0.00000E+000	4.03338E+001
Tractors/Loaders/Balckhoes	9.03400E-002	1.75759E+000	3.03883E+000	4.04000E-003	6.57000E-003	6.57000E-003	0.00000E+000	3.55106E+002	3.55106E+002	1.14850E-001	0.00000E+000	3.57978E+002
Welders	1.31400E-002	4.98340E-001	4.49050E-001	7.70000E-004	1.40200E-002	1.40200E-002	0.00000E+000	5.64661E+001	5.64661E+001	5.67000E-003	0.00000E+000	5.66078E+001

Honey Creekside Subdivision Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	6.94294E-001	1.16879E-001	-1.24503E-002	0.00000E+000	9.32039E-001	9.32039E-001	0.00000E+000	1.17497E-006	1.17497E-006	0.00000E+000	0.00000E+000	1.17333E-006
Concrete/Industrial Saws	6.78771E-001	2.03142E-001	-5.29332E-002	0.00000E+000	9.46667E-001	9.46667E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85739E-006
Cranes	7.11176E-001	5.54138E-001	-7.36669E-001	0.00000E+000	9.34148E-001	9.28427E-001	0.00000E+000	1.20233E-006	1.20233E-006	0.00000E+000	0.00000E+000	1.19269E-006
Excavators	6.75192E-001	-3.69149E-001	-2.03132E-001	0.00000E+000	8.94845E-001	8.85650E-001	0.00000E+000	1.10218E-006	1.10218E-006	0.00000E+000	0.00000E+000	1.09334E-006
Forklifts	6.27025E-001	2.27346E-001	-2.07587E-002	0.00000E+000	9.49213E-001	9.44797E-001	0.00000E+000	1.15834E-006	1.15834E-006	0.00000E+000	0.00000E+000	1.14905E-006
Generator Sets	5.70615E-001	6.59562E-002	-1.07389E-001	0.00000E+000	9.18323E-001	9.18323E-001	0.00000E+000	1.23848E-006	1.23848E-006	0.00000E+000	0.00000E+000	1.17834E-006
Graders	7.18261E-001	6.25072E-001	-1.07720E+000	0.00000E+000	9.29204E-001	9.23077E-001	0.00000E+000	1.14671E-006	1.14671E-006	0.00000E+000	0.00000E+000	1.13751E-006
Pavers	6.97917E-001	-9.98937E-002	-2.35784E-001	0.00000E+000	9.09091E-001	9.02439E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.80416E-006
Paving Equipment	7.05882E-001	-1.24844E-001	-2.13615E-001	0.00000E+000	9.23077E-001	9.16667E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	6.23377E-001	2.86957E-001	-7.12743E-002	0.00000E+000	9.54545E-001	9.51220E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	8.15773E-001	7.15962E-001	-3.60153E-001	0.00000E+000	9.61934E-001	9.58624E-001	0.00000E+000	1.18103E-006	1.18103E-006	0.00000E+000	0.00000E+000	1.17156E-006
Scrapers	6.83898E-001	5.16137E-001	-3.16278E-001	0.00000E+000	9.22998E-001	9.16295E-001	0.00000E+000	1.24968E-006	1.24968E-006	0.00000E+000	0.00000E+000	1.23965E-006
Tractors/Loaders/Backhoes	5.26247E-001	8.92561E-002	-4.87584E-002	0.00000E+000	9.28142E-001	9.21897E-001	0.00000E+000	1.18274E-006	1.18274E-006	0.00000E+000	0.00000E+000	1.20119E-006
Welders	8.11478E-001	-2.11180E-001	9.88903E-002	0.00000E+000	-1.52064E-002	-1.52064E-002	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.05992E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
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Honey Creekside Subdivision Project

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

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Water Exposed Area	PM10 Reduction	0.00	PM2.5 Reduction	0.00	Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.06	0.02	0.06	0.02	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.14	0.05	0.14	0.05	0.00	0.00
Grading	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	2.55	1.23	2.55	1.23	0.00	0.00
Site Preparation	Roads	0.02	0.00	0.02	0.00	0.00	0.00

Honey Creekside Subdivision Project

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

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.79	4.00	0.02	0.00	1.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

Honey Creekside Subdivision Project

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

No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		

Honey Creekside Subdivision Project

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

No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	150.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Honey Creekside Subdivision Project

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

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	

Honey Creekside Subdivision Project

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

No	Water Efficient Landscape	0.00	0.00
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Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

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

City of Oakley
Planning Division

NOV 12, 2021

RECEIVED

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: Honey Lane	
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): The project includes the development of the two parcels with a 57-lot residential subdivision along with a 75-foot setback from the top of the bank of Marsh Creek and associated stormwater treatment facilities and roads.	
PROJECT ADDRESS/LOCATION: The project is located on two parcels, 463 and 560 Honey Lane. City of Oakley	
PARCEL/PROJECT SIZE (ACRES): 10.56	
PROJECT APN(S): 033-030-028-6; 033-030-032-8	
APPLICATION SUBMITTAL DATE:	FINAL PSR DATE: (City/County/Conservancy use)
LEAD PLANNER:	
JURISDICTION: <input type="checkbox"/> City of Brentwood <input type="checkbox"/> City of Clayton <input checked="" type="checkbox"/> City of Oakley <input type="checkbox"/> City of Pittsburg <input type="checkbox"/> Contra Costa County <input type="checkbox"/> Participating Special Entity*	
<small>*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.</small>	
DEVELOPMENT FEE ZONE: <input checked="" type="checkbox"/> Zone I <input type="checkbox"/> Zone II <input type="checkbox"/> Zone III <input type="checkbox"/> Zone IV	
<small>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.</small>	

PROJECT APPLICANT INFORMATION	
APPLICANT'S NAME: Nuvera Homes	
AUTHORIZED AGENT'S NAME AND TITLE: Jeff Lawrence	
PHONE NO.: 925-309-8888	APPLICANT'S E-MAIL: jlawrence@nuverahomes.com
MAILING ADDRESS: 7041 Koll Center Pkwy, Pleasanton, CA 94566	

BIOLOGIST INFORMATION ¹
BIOLOGICAL/ENVIRONMENTAL FIRM: Live Oak Associates, Inc.

¹ A USFWS/CDFW-approved biologist (project-specific) is required to conduct the surveys. Please submit biologist(s) approval request to the Conservancy.

CONTACT NAME AND TITLE: Pamela Peterson, Senior Project Manager and Plant/Wetland Ecologist	
PHONE NO.: 408-281-5884	CONTACT'S E-MAIL: ppeterson@loainc.com
MAILING ADDRESS: 6840 Via Del Oro, Suite 220, San Jose, CA 95119	

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 type="checkbox"/> Initial Study		
<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 checked="" type="checkbox"/> Other (describe)	*Still to be prepared.	N/a

*We understand from our client that a Mitigated Negative Declaration will be prepared for the project.

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).

*Proposed for HCP/NCCP
Dedication on the Parcel
(Requires Conservancy Approval)*

Table 1: Land Cover Types and Impacts

Land Cover Type	Permanent Impacts	Temporary Impacts	Stream Setback	Preserve System Dedication
<i>Grassland</i>				
Annual Grassland				
Alkali Grassland				
Ruderal	9.64			
<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	0.93			
Aqueduct				
Turf				
Landfill				
TOTAL IMPACTS	10.56			

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	0.01	

Please provide details of impacts to stream features:

Stream Name: Marsh Creek

Watershed: Marsh Creek

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 checked="" type="checkbox"/> > 25 feet wide	<input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral, 3rd or higher order <input type="checkbox"/> Ephemeral, 1st or 2nd order	0	0
<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

Ruderal grasslands are the prevalent land cover type on both parcels, comprising 9.64 acres (0.82 acres of which occurs within the stream setback area). Ruderal vegetation on the northernmost parcel is dominated by slender wild oats (*Avena barbata*) which comprises a relatively dense, almost 100% cover over the parcel, at approximate height of 8 to 10 inches. Other constituent species of this land cover type on the northern parcel included but was not limited to, red-stem filaree (*Erodium cicutarium*), telegraph weed (*Heterotheca grandiflora*), vetch (*Vicia sativa*), common fiddleneck (*Amsinckia menziesii*). Within this habitat on the northern parcel there are a few trees, including eucalyptus (*Eucalyptus* sp.) and almond (*Prunus dulcis*) trees in the southeast corner of the parcel and one large Monterey pine (*Pinus radiata*) located centrally to the parcel. Shrubs observed within this habitat type included silver lupine (*Lupinus albifrons*) in the northern portion of the site. Ruderal grasslands occurring on the southernmost parcel are primarily dominated by ripgut brome (*Bromus diandrus*) and wild radish (*Raphanus sativa*) at almost 100% cover at a height between 10 and 12 inches, while other constituent species observed here included, but was not limited to, field bindweed (*Convolvulus arvensis*), puncture vine (*Tribulus terrestris*), and yellow star thistle (*Centaurea solstitialis*) as well as other species already mentioned as occurring on the northern parcel. Trees occurring within this habitat type on the southernmost parcel included Siberian elms (*Ulmus pumila*) located centrally to the parcel. The ruderal land cover on both parcels appears to be regularly disturbed by discing based on a review of Google Earth imagery although it did not appear to have been disced within the past six months or more.

Urban

Development in the form of an existing single-family residence, a large shed, landscaping/fruit trees, driveway and associated disturbed areas occur in the northeast corner of the southern parcel, comprising 0.93 acres. Landscape and fruit trees, shrubs and plants observed within the landscape areas surrounding the residence included, but was not necessarily limited to, liquid amber (*Liquidambar styraciflua*), blackwood acacia (*Acacia melanoxylon*), Mexican fan palm (*Washingtonia robusta*), pomegranate (*Punica granatum*), lemon (*Citrus limon*), white mulberry (*Morus alba*), common geranium (*Pelargonium* sp.), rose (*Rosa* sp.), and prickly pear cactus (*Opuntia* sp.).

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 ECCC HCP/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):**

⁸ The USACE Sacramento District issued a Regional General Permit 1 (RGP) related to ECCC HCP/NCCP covered activities. The RGP is designed to streamline wetland permitting in the entire ECCC HCP/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 ECCC 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.

The site was surveyed on May 17, 2021 by LOA ecologists Pamela Peterson and Nathan Hale. Large trees occurring on the site, including eucalyptus, pine and elm trees were surveyed for the presence of raptor nests and none was observed. Ground squirrels and their burrows are present within the ruderal grasslands of the project site. While no burrowing owls, or their sign, were observed on the project site during the May site visit, potential habitat for burrowing owls is present due to the presence of ground squirrel burrows.

On May 17, 2021, planning surveys for burrowing owls, Swainson's hawks and golden eagles were also conducted within 500 feet, 1,000 feet and 0.5 miles, respectively, as required by the ECCC HCP in all areas that were publicly accessible by foot or by vehicle. Prior to conducting the surveys, Google Earth aerial maps were reviewed to identify potential habitat for these species, including ruderal and grassland habitats providing potential roosting/nesting habitat for burrowing owls, and large trees potentially providing nesting habitat for Swainson's hawks and golden eagles, within the appropriate radius of the site. All such accessible areas were evaluated from public roadways or trails using binoculars.

Burrowing Owl

As indicated above, suitable nesting/roosting habitat for burrowing owls is present on the project site although this site does not appear to be being used by this species currently. Suitable burrowing owl habitat occurring within 500 feet of the site includes ruderal areas occurring immediately adjacent to and to the west of the project's northernmost parcel, and ruderal areas occurring adjacent to and east of the southernmost parcel. While the parcel adjacent to and west of the southernmost parcel is currently under construction and does not provide BUOW habitat, there is ruderal habitat that occurs to the west of that parcel that may provide habitat for burrowing owls although this area was not publicly accessible in the field. Areas within 500 feet of the project site providing potential burrowing owl habitat are depicted in Figure 5 in Attachment B.

Due to the presence of potential habitat for burrowing owls on the project site, preconstruction surveys will be required for this species as outlined in the ECCC HCP conditions.

Swainson's Hawk

As indicated above, raptor nests are currently absent from the project site, although large trees occurring on the site do appear to provide potential nesting habitat for Swainson's hawk. The site also would provide potential foraging habitat for Swainson's hawks, although better quality foraging habitat may be present in the site's vicinity. During the planning surveys, a single Swainson's hawk was observed on numerous occasions flying high over the site and surrounding areas; however, we did not observe the hawk land in any trees in the site's vicinity. All accessible large trees within 1,000 feet of the site were surveyed for Swainson's hawk nests and none were observed. Only one large potential raptor or crow's nest was observed during the survey in a residential area. The nest was old and unoccupied and was not a Swainson's or golden eagle nest. No potential Swainson's hawk nests were observed in the project vicinity. The nearest documented occurrences of nesting Swainson's hawks recorded in the California Natural Diversity Database (CNDDDB) are approximately 0.65 miles southwest of the site just north of the intersection of Neroly Road (private) and Main St. and approximately 0.85 miles northeast of the site near the intersection of East Cypress Road and Sellers Avenue.

Golden Eagle

The project site provides extremely marginal habitat for this species due to surrounding development. All accessible locations supporting large trees within 0.5 miles of the project site were surveyed and no golden eagle or potential golden eagle nests were observed. In our opinion, habitats in the project vicinity would provide extremely marginal nesting habitat for this latter species due to residential/commercial development. There are no golden eagle nests documented in the CNDDDB within a five-mile radius of the site.

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 ECCC 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. *radicans*. 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).

Special Status Plants

During the May 2021 site survey, the site was observed to only support ruderal and urban/developed/landscaped land covers. The ruderal grasslands of the site are heavily and densely dominated by non-native annual grasses and forbs with very low diversity overall and very few native species observed except those, like common fiddleneck, that are well-adapted to heavily disturbed habitats. Additionally, ruderal grasslands of the site appear to be impacted by regular discing. As such, habitat for special status plants is presumed absent from the site.

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
<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

¹⁰ The requirements in this table are not comprehensive; they are detailed in the next section on the following page.

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.

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.

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.

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 site is located within Fee Zone 1 and the applicant will be responsible for the payment of permanent impact fees for 9.64 acres of undeveloped "Ruderal" land cover at \$17,602.20/acre, with the remaining 0.93 acres of existing "Urban" land cover subject to no fees.

The total fees that will be paid for permanent impacts, based on the current 2021 fee calculator (Attachment D), is \$169,685.21.

Fees will be paid upon notification by the City of Oakley that the project application is complete and the project has been approved.

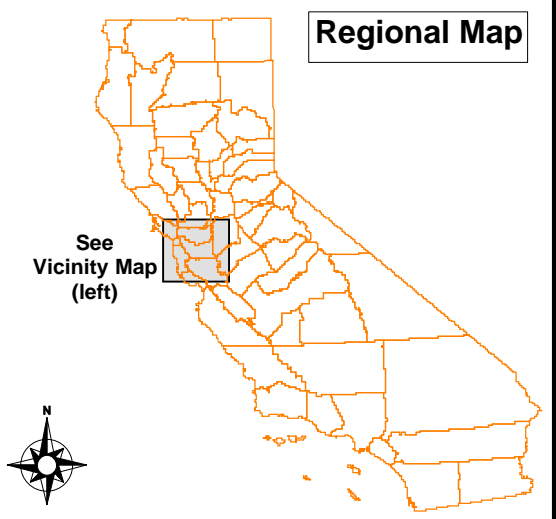
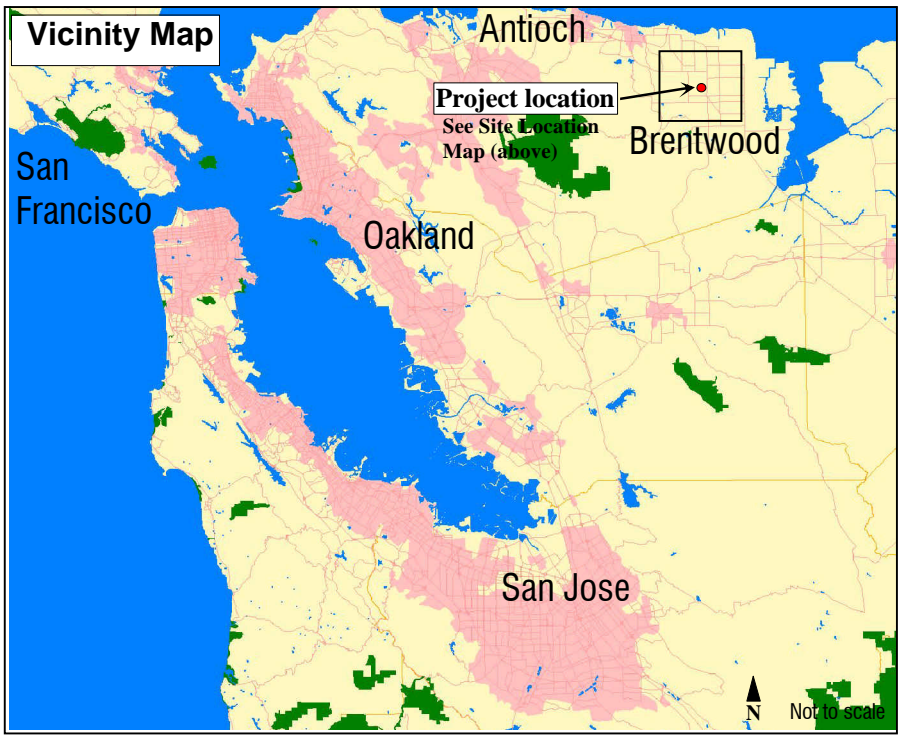
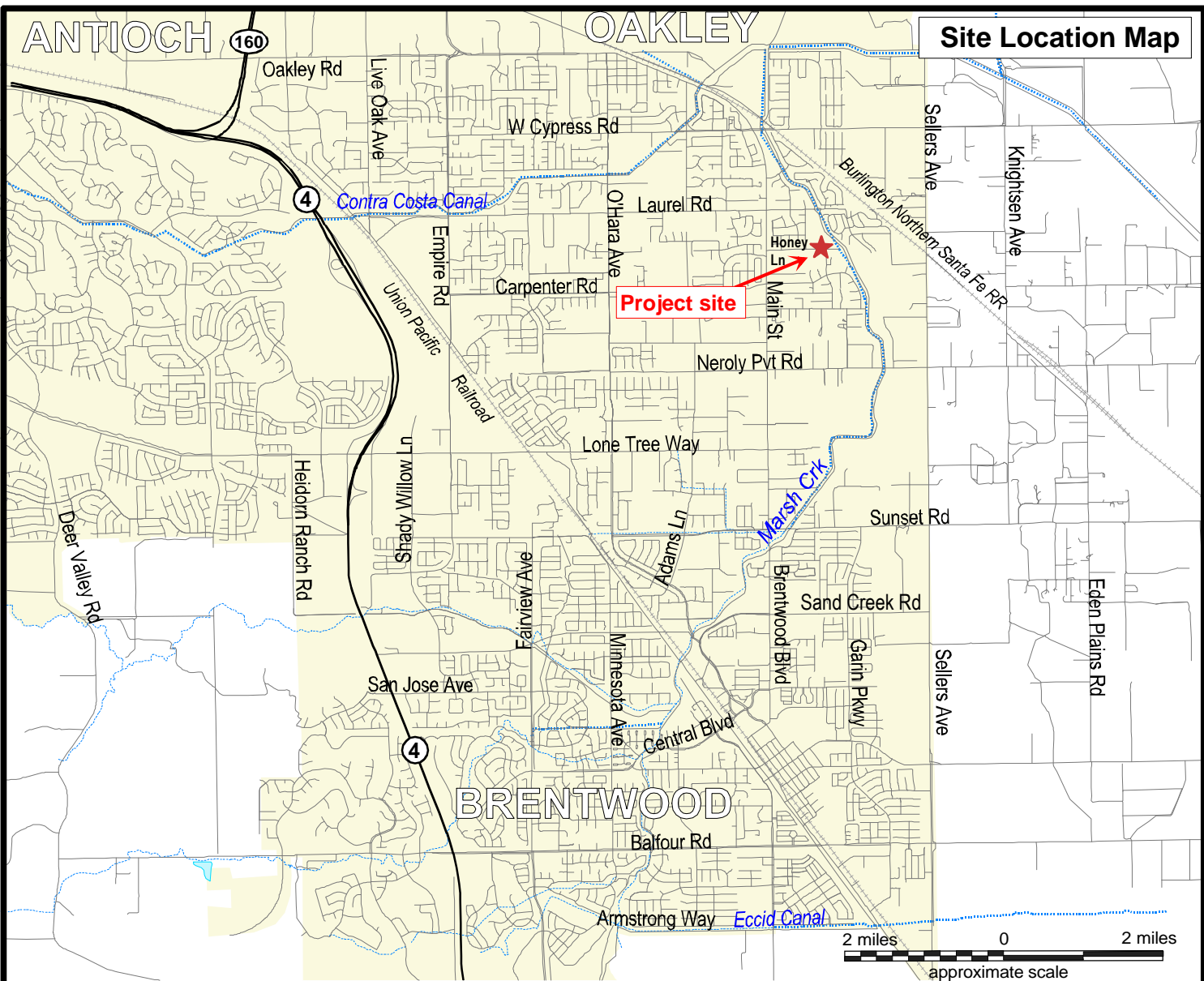
ATTACHMENT A: PROJECT DESCRIPTION

Project Description

The project includes the development of the two parcels with a 57-lot single-family home residential subdivision along with associated stormwater treatment facilities and roads. The project also includes a 75-foot setback from the top of the bank of Marsh Creek which occurs adjacent to, and to the east, of the northernmost project parcel.

Once the final plans have been determined, a more detailed project description will be prepared.

ATTACHMENT B: FIGURES




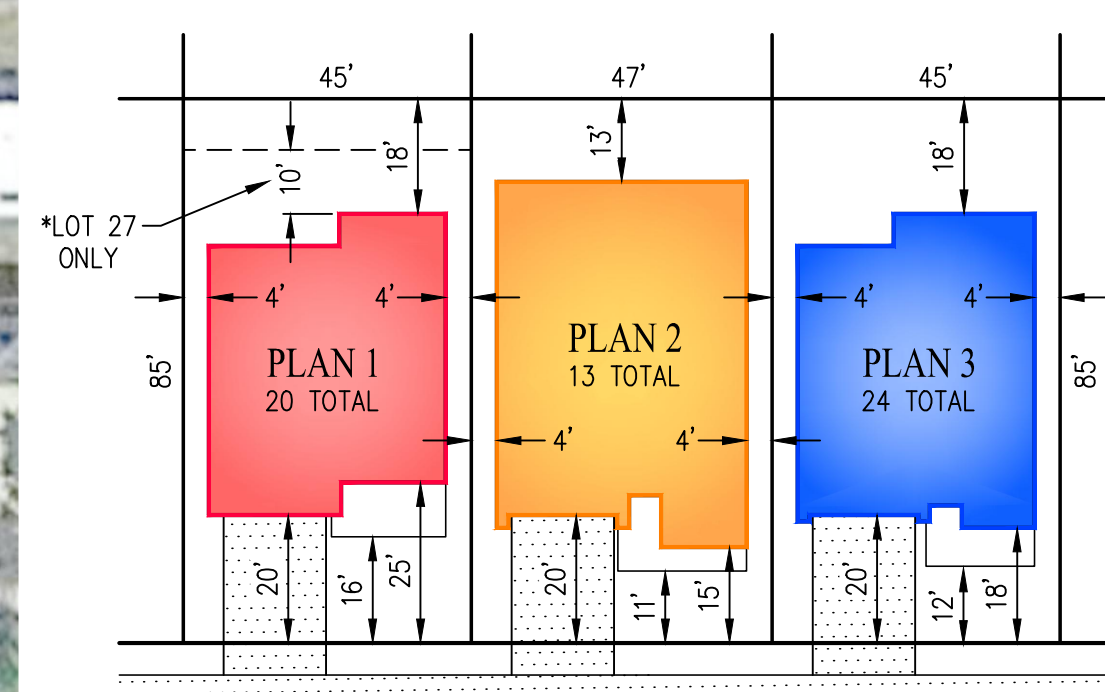
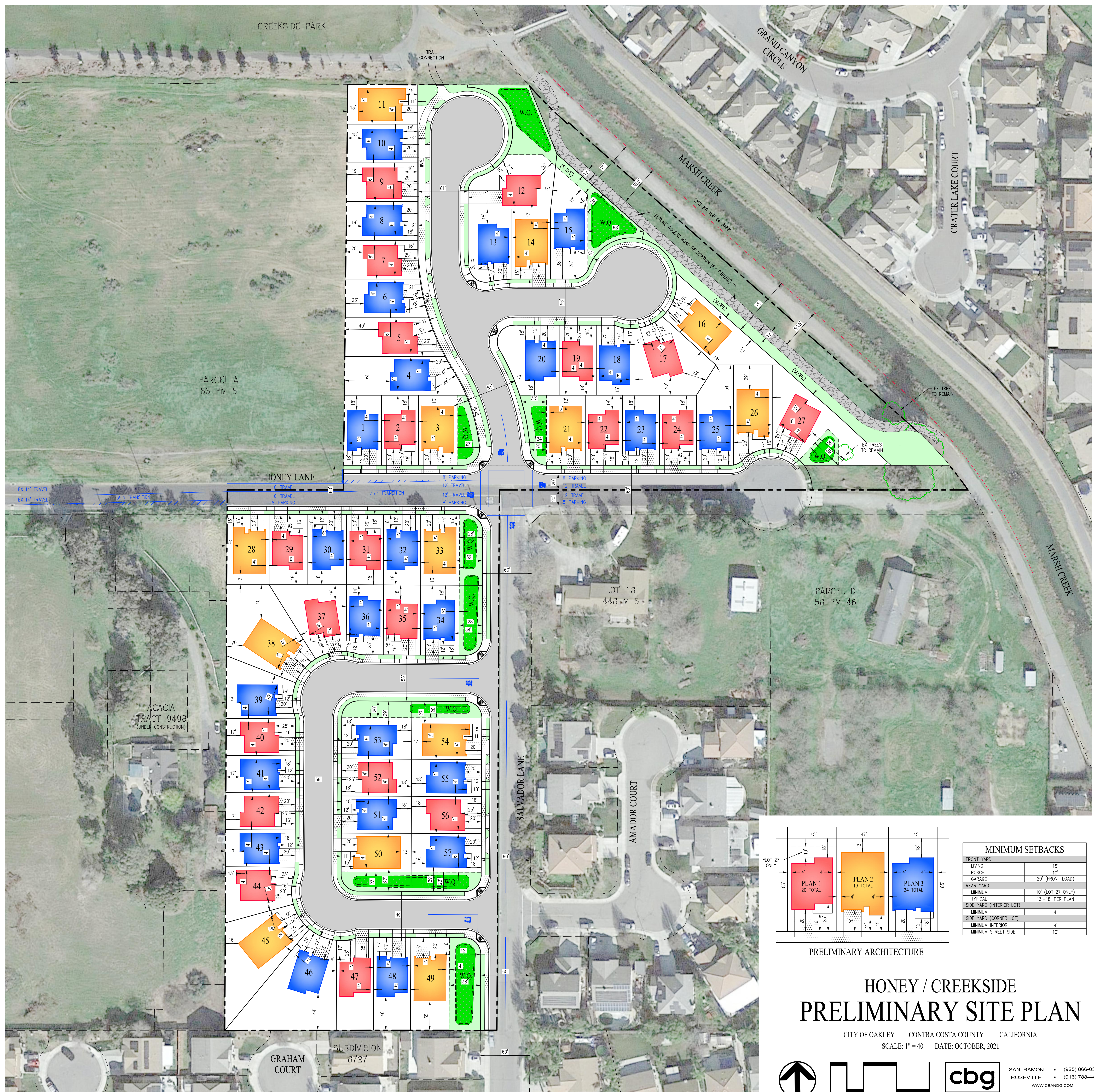
 Live Oak Associates, Inc.			
Honey Ln Site / Vicinity Map			
Date	Project #	Figure #	
5/11/2021	2576-01	1	1

Figure 2. Project Site Plans

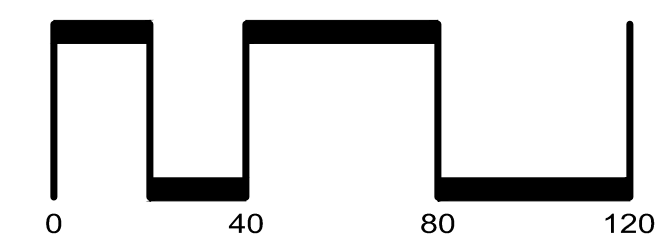
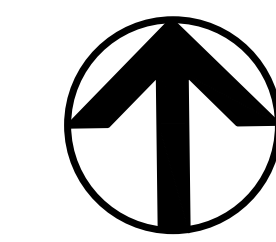


MINIMUM SETBACKS	
FRONT YARD	
LIVING	15'
PORCH	10'
GARAGE	20' (FRONT LOAD)
REAR YARD	
MINIMUM	10' (LOT 27 ONLY)
TYPICAL	13'-18' PER PLAN
SIDE YARD (INTERIOR LOT)	
MINIMUM	4'
SIDE YARD (CORNER LOT)	
MINIMUM INTERIOR	4'
MINIMUM STREET SIDE	10'

PRELIMINARY ARCHITECTURE

HONEY / CREEKSIDE PRELIMINARY SITE PLAN

CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA
SCALE: 1" = 40' DATE: OCTOBER, 2021


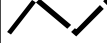





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IFSC99-DRIVE388-000ACADEXIBITS08_PRELIMINARY SITE PLAN.DWG



LEGEND

-  Project Boundary
-  Top of Bank
-  75' Setback
-  Ruderal Land Cover (9.64 Acres)
-  Urban Land Cover (0.93 Acres)

Project Boundary

Marsh Creek

Top of Bank

75' Setback

Honey Lane

Amador Ct

Salvador Lane

Project Boundary



Sources:
 Topographic Base & Existing Planimetrics courtesy of CBG Civil Engineers
 Aerial photo courtesy of: USDA FSA Aerial Photography Field Office

approximate scale



Live Oak Associates, Inc.

Honey Ln
Field Verified Land Cover

Date	Project #	Figure #
11/09/2021	2576-01	3

Figure 4. Photographs

Figure 4 Photographs



Photo 1. Ruderal grasslands looking south from the northern boundary of the northern project boundary.



Photo 2. Looking southwest from the northern boundary of the northernmost parcel.

Figure 4 Photographs



Photo 3. Looking south from the northeast corner of the northern parcel. Paved trail and Marsh Creek Channel along the eastern parcel boundary.



Photo 4. Looking southwest from the north east corner of the northern parcel.

Figure 4 Photographs



Photo 5. Looking southwest from the northeast corner of the southern parcel toward the existing residence.



Photo 6. Ruderal grasslands on the southern portion of the southern parcel.

Figure 4 Photographs



Photo 7. Large shed on the west side of existing residence on southern parcel.



Photo 8. Existing residence on the southern parcel.

Figure 4 Photographs

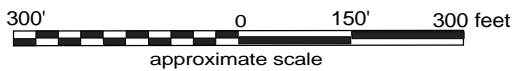


Photo 9. Southern parcel looking southeast from near the northwest corner.



LEGEND

- Project Boundary
- 500-foot Radius of Project Site
- Potential Western Burrowing Owl Habitat
- Parcel Currently Under Development



Sources:
Aerial photo courtesy of: USDA FSA Aerial Photography Field Office



Live Oak Associates, Inc.

Honey Ln

Potential Western Burrowing Owl Habitat
Within a 500-foot Radius of Project Site

Date	Project #	Figure #
5/20/2021	2576-01	5

Attachment C: Project Compliance to HCP Conditions

Project Compliance with HCP Conditions

The project will be required to comply with four HCP conditions and these include Conservation Measure 1.11 (“Avoid Direct Impacts on Extremely Rare Plants, Fully Protected Wildlife Species, or Migratory Birds”), Conservation Measure 1.10 (“Maintain Hydrologic Conditions and Minimize Erosion”), Conservation Measure 2.12 (“Wetland, Pond, and Stream Avoidance and Minimization”) and Conservation Measure 1.7 (“Establish Stream Setbacks”).

Compliance with these Conservation Measures is described in greater detail below.

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.

Project Compliance with Conservation Measure 1.11. It has been determined by LOA that the project site provides no habitat for rare plant species, therefore, the project will not result in any impacts to any extremely rare plant species that are listed in Table 6-5.

However, the project could result in impacts to tree- and ground-nesting migratory bird species, should any such bird species nest on the site, or adjacent to the site, during project construction, and could also result in impacts to white tailed kites which are a fully protected species should kites nest on, or adjacent to, the site during project construction. Therefore, the project will implement the following measures to avoid impacts to white-tailed kites and migratory bird species.

To the maximum extent practicable, trees and other vegetation planned for removal should be removed during the non-breeding season (September 1 through January 31). If it is not possible to avoid tree removal or other disturbances during the breeding season (February 1 through August 31), a qualified biologist should conduct a pre-construction survey for tree-nesting raptors and other tree- or ground-nesting migratory birds in all trees or other areas of potential nesting habitat within the construction footprint and within 250 ft. of the footprint, if such disturbance will occur during the breeding season. This survey should be conducted no more than 5 days prior to the initiation of demolition/construction activities during the early part of the breeding season (February through April) and no more than 30 days prior to the initiation of these activities during the late part of the breeding season (May through August). If nesting raptors or migratory birds are detected on the site during the survey, a suitable construction-free buffer should be established around all active nests. The precise dimension of the buffer (up to 250 ft.) would be determined at that time and may vary depending on location and species. Buffers should remain in place for the duration of

the breeding season or until it has been confirmed by a qualified biologist that all chicks have fledged and are independent of their parents. Pre-construction surveys during the non-breeding season are not necessary, as the birds are expected to abandon their roosts during construction activities. Implementation of the above measures would mitigate impacts to tree- and ground-nesting raptors and other migratory birds to a less-than-significant level.

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.

Project Compliance with Conservation Measure 1.10. The project civil engineer will develop a Stormwater Control Plan for stormwater runoff from the site during the project implementation phase. To ensure that the project does not result in water quality impacts during the project construction phase, the project will comply with all necessary regulations and conditions of approval and a detailed Stormwater Pollution Prevention Program (SWPPP) will be developed once construction timing is determined. Typical RWQCB BMPs and measures may include but not necessarily be limited to, the following:

- Burlap bags filled with drain rock shall be installed around storm drains to route sediment and other debris away from the drains.
- Earthmoving or other dust-producing activities shall be suspended during periods of high winds.
- All exposed or disturbed soil surfaces shall be watered at least twice daily to control dust as necessary.
- Stockpiles of soil or other materials that can be blown by the wind shall be watered or covered.
- All trucks hauling soil, sand, and other loose materials shall be required to cover all trucks or maintain at least two feet of freeboard.
- All paved access roads, parking areas, staging areas and residential streets adjacent to the construction sites shall be swept daily (with water sweepers).

- Vegetation in disturbed areas shall be replanted as quickly as possible.
- All unpaved entrances to the site shall be filled with rock to knock mud from truck tires prior to entering City streets. A tire wash system may also be employed at the request of the City.
- A Storm Water Permit will be administered by the RWQCB. Prior to construction grading for the proposed land uses, the project proponent will file a "Notice of Intent" (NOI) to comply with the General Permit and prepare a SWPPP which addresses measures that would be included in the project to minimize and control construction and post-construction runoff. Measures will include, but are not limited to, the aforementioned RWQCB mitigation.
- The Applicant will prepare a SWPPP prior to start of construction on the project site. The certified SWPPP will be posted at the project site and will be updated to reflect current site conditions.
- When construction is complete, a NOT for the General Permit for Construction will be filed with the RWQCB. The NOT will document that all elements of the SWPPP have been executed, construction materials and waste have been properly disposed of, and a post-construction storm water management plan is in place as described in the SWPPP for the site.

Conservation Measure 2.12. Wetland, Pond, and Stream Avoidance and Minimization and Conservation Measure 1.7. Establish Stream Setbacks.

Under Conservation Measure 1.7, for purposes of determining appropriate setbacks, the ECCC HCP categorizes streams into five categories. One of these categories includes the main stem of Marsh Creek which occurs adjacent to and east of the project site. The required setback from the mainstem of Marsh Creek is 75 feet from the top of the bank. Conservation Measure 2.12 includes avoidance and minimization measures that will ensure that the project has no impacts to Marsh Creek or downstream waters.

Project Compliance with Conservation Measures 2.12 and 1.7. While the project will not directly impact any wetlands, ponds or streams, the main stem of Marsh Creek occurs immediately east of the northern project parcel. The project will comply with Conservation Measure 1.7 by establishing a 75-foot setback from the western top of the bank of Marsh Creek. All structures will occur outside of the 75-foot setback; however, a detention basin is planned within the setback which will impact 0.29 acres of ruderal vegetation within the setback. As per ECCC HCP, the detention would comply with allowed uses within a setback which include, according to the Plan:

"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."

To comply with Conservation Measure 2.12, all measures already outlined above for Conservation Measure 1.10 (“Maintain Hydrologic Conditions”) will be implemented. Additionally, the project will implement the following measures outlined for Conservation Measure 2.12:

- 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 (see Table 5-6).
- 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.
- 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 East Contra Costa County Habitat Conservation Plan Association Chapter 6 Conditions on Covered Activities East Contra Costa County HCP/NCCP 6-35 October 2006 J&S 01478.01 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.

ATTACHMENT D: FEE CALCULATOR(S)

ECCC HCP/NCCP 2021 Fee Calculator Worksheet

Permanent Impacts

PROJECT APPLICANT: Nuvera Homes

PROJECT NAME: Honey Lane

APN(s): 033-030-028-6, 033-030-032-8

JURISDICTION: City of Oakley

DATE: November 12, 2021

<u>DEVELOPMENT FEE</u>		ACREAGE		2021 FEE PER ACRE (SUBJECT TO CHANGE) ²		
		PERMANENTLY IMPACTED (TABLE 1) ¹				
See appropriate ordinance or HCP/NCCP Figure 9-1 to determine Fee Zone	Fee Zone 1	9.64	x	\$17,602.20	=	\$169,685.21
	Fee Zone 2		x	\$35,204.40	=	\$0.00
	Fee Zone 3		x	\$8,801.84	=	\$0.00
	Development Fee Total					=

<u>WETLAND MITIGATION FEE</u>		ACREAGE		2021 FEE PER ACRE (SUBJECT TO CHANGE) ²			
		PERMANENTLY IMPACTED (TABLE 1) ¹					
	Riparian woodland / scrub		x	\$85,924.69	=	\$0.00	
	Perennial Wetland		x	\$117,581.16	=	\$0.00	
	Seasonal Wetland		x	\$254,759.18	=	\$0.00	
	Alkali Wetland		x	\$241,192.12	=	\$0.00	
	Ponds		x	\$128,133.32	=	\$0.00	
	Aquatic (open water)		x	\$64,820.38	=	\$0.00	
	Slough / Channel		x	\$146,222.72	=	\$0.00	
		LINEAR FEET PERMANENTLY IMPACTED (TABLE 1)		2021 FEE PER LINEAR FT (SUBJECT TO CHANGE) ²			
	STREAMS						
	Streams 25 feet wide or less		x	\$700.52	=	\$0.00	
	Streams greater than 25 feet wide		x	\$1,055.22	=	\$0.00	
	Wetland Mitigation Fee Total					=	\$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	=	\$169,685.21
	Wetland Mitigation Fee Total	+	\$0.00
	Fee Subtotal	=	\$169,685.21
	Contribution to Recovery	+	
	TOTAL AMOUNT TO BE PAID	=	\$169,685.21

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
CNDDDB Search Results

CALIFORNIA DEPARTMENT OF
FISH and WILDLIFE RareFind

Query Summary:Quad **IS** (Brentwood (3712186))**AND** Other Status **CONTAINS** (CDFW_FP-Fully Protected **OR** CDFW_SSC-Species of Special Concern)

Print

Close

CNDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	955	1	None	Threatened	G1G2	S1S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern	Freshwater marsh, Marsh & swamp, Swamp, Wetland
Anniella pulchra	Northern California legless lizard	Reptiles	ARACC01020	382	3	None	None	G3	S3	null	CDFW_SSC-Species of Special Concern, USFS_S-Sensitive	Chaparral, Coastal dunes, Coastal scrub
Athene cunicularia	burrowing owl	Birds	ABNSB10010	2011	48	None	None	G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland
Elanus leucurus	white-tailed kite	Birds	ABNKC06010	180	4	None	None	G5	S3S4	null	BLM_S-Sensitive, CDFW_FP-Fully Protected, IUCN_LC-Least Concern	Cismontane woodland, Marsh & swamp, Riparian woodland, Valley & foothill grassland, Wetland
Emys marmorata	western pond turtle	Reptiles	ARAAD02030	1404	7	None	None	G3G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive	Aquatic, Artificial flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh & swamp, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, South coast flowing waters, South coast standing waters, Wetland
Lanius ludovicianus	loggerhead shrike	Birds	ABPBR01030	110	1	None	None	G4	S4	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Broadleaved upland forest, Desert wash, Joshua tree woodland, Mojavean desert scrub, Pinon & juniper woodlands, Riparian woodland, Sonoran desert scrub

CALIFORNIA DEPARTMENT OF
FISH and WILDLIFE *RareFind*

Query Summary:

Quad IS (Brentwood (3712186))

AND CA Rare Plant Rank IS (1A OR 1B OR 1B.1 OR 1B.2 OR 1B.3 OR 2A OR 2B OR 2B.1 OR 2B.2 OR 2B.3)

Print

Close

CNDDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
<i>Blepharizonia plumosa</i>	big tarplant	Dicots	PDAST1C011	53	6	None	None	G1G2	S1S2	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Valley & foothill grassland
<i>Centromadia parryi</i> ssp. <i>congdonii</i>	Congdon's tarplant	Dicots	PDAST4R0P1	98	1	None	None	G3T1T2	S1S2	1B.1	BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Valley & foothill grassland
<i>Cicuta maculata</i> var. <i>bolanderi</i>	Bolander's water-hemlock	Dicots	PDAPI0M051	17	1	None	None	G5T4T5	S2?	2B.1	null	Marsh & swamp, Salt marsh, Wetland
<i>Extriplex joaquinana</i>	San Joaquin spearscale	Dicots	PDCHE041F3	127	3	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Alkali playa, Chenopod scrub, Meadow & seep, Valley & foothill grassland
<i>Hesperolinon breweri</i>	Brewer's western flax	Dicots	PDLIN01030	29	1	None	None	G2	S2	1B.2	null	Chaparral, Cismontane woodland, Ultramafic, Valley & foothill grassland
<i>Oenothera deltooides</i> ssp. <i>howellii</i>	Antioch Dunes evening-primrose	Dicots	PDONA0C0B4	10	1	Endangered	Endangered	G5T1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley	Interior dunes
<i>Symphotrichum lentum</i>	Suisun Marsh aster	Dicots	PDASTE8470	175	1	None	None	G2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_USDA-US Dept of Agriculture	Brackish marsh, Freshwater marsh, Marsh & swamp, Wetland
<i>Tropidocarpum capparideum</i>	caper-fruited tropidocarpum	Dicots	PDBRA2R010	20	1	None	None	G1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, USFS_S-Sensitive	Valley & foothill grassland

CALIFORNIA DEPARTMENT OF
FISH and WILDLIFE RareFind

Query Summary:

Quad **IS** (Brentwood (3712186))

AND Federal Listing Status **IS** (Endangered **OR** Threatened **OR** Proposed Endangered **OR** Proposed Threatened **OR** Candidate) **OR** State Listing Status **IS** (Endangered **OR** Threatened **OR** Candidate Endangered **OR** Candidate Threatened)

Print

Close

CNDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	955	1	None	Threatened	G1G2	S1S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern	Freshwater marsh, Marsh & swamp, Wetland
Ambystoma californiense pop. 1	California tiger salamander - central California DPS	Amphibians	AAAAA01181	1263	21	Threatened	Threatened	G2G3	S3	null	CDFW_WL-Watch List, IUCN_VU-Vulnerable	Cismontane woodland, Meadow & seep, Riparian woodland, Valley & foothill grassland, Vernal pool, Wetland
Branchinecta lynchi	vernal pool fairy shrimp	Crustaceans	ICBRA03030	795	3	Threatened	None	G3	S3	null	IUCN_VU-Vulnerable	Valley & foothill grassland, Vernal pool, Wetland
Buteo swainsoni	Swainson's hawk	Birds	ABNKC19070	2541	11	None	Threatened	G5	S3	null	BLM_S-Sensitive, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Great Basin grassland, Riparian forest, Riparian woodland, Valley & foothill grassland
Oenothera deltooides ssp. howellii	Antioch Dunes evening-primrose	Dicots	PDONA0C0B4	10	1	Endangered	Endangered	G5T1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley	Interior dunes
Vulpes macrotis mutica	San Joaquin kit fox	Mammals	AMAJA03041	1020	3	Endangered	Threatened	G4T2	S2	null	null	Chenopod scrub, Valley & foothill grassland

Appendix D
Preliminary Arborist Report



November 5, 2021

Jeff Lawrence
Nuvera Homes
7041 Koll Center Pkwy | Suite 130
Pleasanton, CA 94566

City of Oakley
Planning Division

NOV 09, 2021

Subject: **Preliminary Arborist Report**
463 and 560 Honey Lane, Oakley CA

RECEIVED

Dear Mr. Lawrence,

Nuvera Homes is proposing to redevelop the subject properties, in Oakley CA. The City of Oakley requires an **Arborist Report** be prepared as part of the project submittals. HortScience | Bartlett Consulting, Divisions of the F.A. Bartlett Tree Expert Co., was asked to prepare an **Arborist Report** for the project. This letter responds to that request.

Description of Trees

I visited the site on September 30, 2021. Twenty-three (23) trees were assessed across two lots on opposite sides of Honey Lane. The northern lot was undeveloped and southern lot had a single-family residence on it. Trees were tagged as #75-97. Descriptions of trees are provided in the **Tree Assessment Form** and locations are shown on the **Tree Assessment Map** (see attachments)

Following are brief descriptions of the trees:

Northern lot

- A group of 4 silver dollar gum eucalyptus (*Eucalyptus polyanthemos*) were clustered in the southeast corner of the northern lot (trees #75-78). Silver dollar gums #75 (**Photo 1**), 76 and 78 were mature in form and development, with trunk diameters from 17" to 27". Both trees #75 and 78 were in good condition and #76 was in fair. Silver dollar gum #77 was young (6" in diameter) and in poor condition.
- Almond (*Prunus dulcis*) #79 was growing along the eastern boundary of the northern lot. It was a multi-stemmed stump sprout, with trunks measuring from 1" to 6" in diameter. It was in fair condition.



Photo 1 (L): Looking east at silver dollar gum #75 (center). The tree was in good condition, with a full, dense crown.

- Monterey pine (*Pinus radiata*) #80 was growing in the middle of the northern lot. It was mature (23" in diameter) and in fair condition, with a windswept crown. It had been used as a tree house.

Southern lot

- California fan palm #81 was growing along the east side of the driveway. It was semi-mature (16" in diameter) and in good condition.
- Sweetgums (*Liquidambar styraciflua*) #82-86 were growing with the fan palm along the east side of the driveway. These were small-diameter trees planted beneath the overhead utility lines. They had all been removed at some point and had regrown from the stumps (Photo 2). They were in poor to fair condition.
- Mulberry (*Morus alba*) #87 was young (11" in diameter) and growing in the landscape at the rear of the residence. It was in good condition, with a full, dense crown.
- Siberian elms (*Ulmus pumila*) #88 and 89 were in the field behind the residence. Both were in poor condition and had experienced significant failures.
- Sweetgums #90, 91 and 93 and mulberries #92 and 94-96 had been planted in a row along the west side of the residence. All of the sweetgums were young, with trunk diameters from 9" to 10" but condition varied, with #90 and 91 in poor and #93 in fair. The mulberries were semi-mature (12" to 18" in diameter) and in fair condition.
- Blackwood acacia (*Acacia melanoxyton*) #97 was growing in the front yard of residence. It was semi-mature, with two trunks, and in fair condition. measuring 17" and 18" in diameter

On all properties within the City of Oakley, Zoning Ordinance 9.1.1112 defines all California native oaks with a trunk diameter of 15.6" or greater as *Heritage*. On any undeveloped property, any tree with a trunk diameter of 15.6" or greater is considered *Heritage*. Based on these definitions, four of the trees assessed on the northern lot qualified as *Heritage* trees, including #75, 76, 78 and 80.



Photo 1 (L):
Looking northwest at sweetgums oaks #82-85 (R-L). They were growing beneath the overhead utilities and had been removed at some point and allowed to sprout.

Suitability for Preservation

Before evaluating the impacts that will occur during development, it is important to consider the quality of the tree resource itself, and the potential for individual trees to function well over an extended length of time. Trees that are preserved on development sites must be carefully selected to make sure that they may survive development impacts, adapt to a new environment and perform well in the landscape.

Evaluation of suitability for preservation considers several factors:

- **Tree health**
Healthy, vigorous trees are better able to tolerate impacts such as root injury, demolition of existing structures, changes in soil grade and moisture, and soil compaction than are non-vigorous trees.
- **Structural integrity**
Trees with significant amounts of wood decay and other structural defects that cannot be corrected are likely to fail. Such trees should not be preserved in areas where damage to people or property is likely.
- **Species response**
There is a wide variation in the response of individual species to construction impacts and changes in the environment. In this case, coast live oak is tolerant of site disturbance, while mature Fremont cottonwood is less so.
- **Tree age and longevity**
Old trees, while having significant emotional and aesthetic appeal, have limited physiological capacity to adjust to an altered environment. Young trees are better able to generate new tissue and respond to change.
- **Invasiveness**
Species which spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. The California Invasive Plant Inventory Database (<http://www.cal-ipc.org/paf/>) lists species identified as being invasive. Walnut Creek is part of the Central West Floristic Province. Tree of heaven was the only species assessed at the DWD site that is listed as being invasive.

Each tree was rated for suitability for preservation based upon its age, health, structural condition and ability to safely coexist within a development environment. Suitability ratings are provided for each tree in the **Tree Assessment Forms** (see Exhibits). A summary is provided in Table 1.

**Table 1: Tree Suitability for Preservation
463 & 560 Honey Ln., Oakley CA**

High	These are trees with good health and structural stability that have the potential for longevity at the site. Silver dollar gum #75 was the only tree considered highly suitable for preservation.
Moderate	Trees in this category have fair health and/or structural defects that may be abated with treatment. Trees in this category require more intense management and monitoring, and may have shorter life-spans than those in the “high” category. Seven (7) trees, including silver dollar gums #76 and 78, Monterey pine #80, Ca. fan palm #81, fruitless mulberries #87 and 94 and sweetgum #93 were of moderate suitability for preservation.

**Table 1, continued: Tree Suitability for Preservation
463 & 560 Honey Ln., Oakley CA**

Low	Trees in this category are in poor health or have significant defects in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Fifteen (15) trees, including silver dollar gum #77, almond #79, sweetgums #82-86, 90 and 91, Siberian elms #88 and 89, mulberries #92, 95 and 96 and blackwood acacia #97 were of low suitability for preservation.
------------	---

We consider trees with high suitability for preservation to be the best candidates for preservation. We do not recommend retention of trees with low suitability for preservation in areas where people or property will be present. Retention of trees with moderate suitability for preservation depends upon the intensity of proposed site changes.

Preliminary Evaluation of Impacts

Appropriate tree retention develops a practical match between the location and intensity of construction activities and the quality and health of trees. The **Tree Assessment** was the reference point for tree condition and quality. Potential impacts from construction were evaluated using the Preliminary Site Plan prepared by CBG Engineers (dated October 2021).

The plans were preliminary in nature and no grading, drainage or utility information was included. In addition, canopy outlines of trees were shown but accurate trunk locations were not. As such, the assessment of impacts to trees must be considered preliminary.

The preliminary plans showed the two lots being subdivided into 57 new residential units. Lot lines, building footprints, roads, bioswales and open space were represented on the plans.

Impacts from the proposed changes were estimated for each tree. Based on my assessment of the plans, silver dollar gums #75-78 and almond #79 can be preserved under the current design. However, silver dollar gum #76 and almond #79 are of low suitability and are not considered the most appropriate for retention, depending on what the use of the area around the trees will be.

Silver dollar gums #75-78 qualified as *Heritage* trees. Table 2, following page, provides the recommended action for each tree. Preservation of trees is predicated on all contractors following the **Tree Preservation Guidelines** provided on the following page.

The remaining 18 trees, including Monterey pine #80 and all of the trees on the southern lot, would be directly impacted by the proposed changes, requiring their removal. Among the trees identified for removal, Monterey pine #80 was the only *Heritage* tree.

**Table 2. Recommendations for Action
 463 & 560 Honey Ln., Oakley CA**

Tree No.	Common Name	Trunk Diameter	Heritage?	Recommendation for Action
75	Silver dollar gum	27	Yes	Preserve , in open space
76	Silver dollar gum	27,17	Yes	Remove, low suitability
77	Silver dollar gum	6,3,2	No	Preserve , in open space
78	Silver dollar gum	27,27	Yes	Preserve , in open space
79	Almond	6,5,5,4,3,1	No	Remove, low suitability
80	Monterey pine	23	Yes	Remove, impacted by develop.
81	California fan palm	16	No	Remove, impacted by develop.
82	Sweetgum	5,5	No	Remove, impacted by develop.
83	Sweetgum	6,5,5,4	No	Remove, impacted by develop.
84	Sweetgum	6,4,4	No	Remove, impacted by develop.
85	Sweetgum	8,5,4	No	Remove, impacted by develop.
86	Sweetgum	7,6,5	No	Remove, impacted by develop.
87	Fruitless mulberry	11	No	Remove, impacted by develop.
88	Siberian elm	28,26	No	Remove, impacted by develop.
89	Siberian elm	12,10	No	Remove, impacted by develop.
90	Sweetgum	9	No	Remove, impacted by develop.
91	Sweetgum	9	No	Remove, impacted by develop.
92	Fruitless mulberry	12,12	No	Remove, impacted by develop.
93	Sweetgum	10	No	Remove, impacted by develop.
94	Fruitless mulberry	18	No	Remove, impacted by develop.
95	Fruitless mulberry	7	No	Remove, impacted by develop.
96	Fruitless mulberry	17	No	Remove, impacted by develop.
97	Blackwood acacia	18,17	No	Remove, impacted by develop.

Tree Preservation Guidelines

The goal of tree preservation is not merely tree survival during development but maintenance of tree health and beauty for many years. Trees retained on sites that are either subject to extensive injury during construction or are inadequately maintained become a liability rather than an asset. The response of individual trees will depend on the amount of excavation and grading, the care with which demolition is undertaken, and the construction methods.

The following recommendations will help reduce impacts to trees from development and maintain and improve their health and vitality through the clearing, grading and construction phases.

Design recommendations

1. Any changes to the plans affecting the trees shall be reviewed by the consulting arborist with regard to tree impacts. These include, but are not limited to, improvement plans, utility and drainage plans, grading plans, landscape and irrigation plans, and demolition.
2. Have the vertical and horizontal locations of all the trees identified for preservation established and plotted on all plans. Forward these plans to the Consulting Arborist for review and comment.

3. A **Tree Protection Zone** shall be established around each tree to be preserved. No trenching, excavation, construction or storage of materials shall occur within that zone. No underground services including utilities, sub-drains, water or sewer shall be placed in the **Tree Protection Zone**. Spoil from trench, footing, utility or other excavation shall not be placed within the **Tree Protection Zone**, either temporarily or permanently. The **Tree Protection Zone** for trees #75, 77 and 78 shall be defined at the dripline in all directions.
4. Underground services including utilities, sub-drains, water or sewer shall be routed around the **Tree Protection Zone**. Where encroachment cannot be avoided, special construction techniques such as hand digging or tunneling under roots shall be employed where necessary to minimize root injury.
5. **Tree Preservation Guidelines**, prepared by the Consulting Arborist, should be included on all plans.
6. Any herbicides placed under paving materials must be safe for use around trees and labeled for that use.
7. Irrigation systems must be designed so that no trenching will occur not within the **Tree Protection Zone**.

Pre-construction treatments and recommendations

1. The construction superintendent shall meet with the Consulting Arborist before beginning work to discuss work procedures and tree protection.
2. Prune trees to be preserved to clean the crown and to provide clearance. All pruning shall be completed by a Certified Arborist or Tree Worker and adhere to the latest edition of the ANSI Z133 and A300 standards as well as the *Best Management Practices -- Tree Pruning* published by the International Society of Arboriculture.
3. All tree work shall comply with the Migratory Bird Treaty Act as well as California Fish and Wildlife code 3503-3513 to not disturb nesting birds. To the extent feasible tree pruning and removal should be scheduled outside of the breeding season. Breeding bird surveys should be conducted prior to tree work. Qualified biologists should be involved in establishing work buffers for active nests.
4. Prior to grading for the new driveway, tree #2 may require root pruning outside the **Tree Protection Zone** by cutting all roots cleanly to the depth of the excavation. Pruning of off-site trees must be done with the property owner's permission. Roots shall be cut by manually digging a trench and cutting exposed roots with a sharp saw, or other approved root pruning equipment.
5. Apply and maintain 4-6" of wood chip mulch within the **Tree Protection Zone**.

Recommendations for tree protection during construction

1. Prior to beginning work, the contractors working in the vicinity of trees to be preserved are required to meet with the Consulting Arborist at the site to review all work procedures, access routes, storage areas and tree protection measures.

2. Any excavation within the dripline or other work that is expected to encounter tree roots should be approved and monitored by the Consulting Arborist. Roots shall be cut by manually digging a trench and cutting exposed roots with a sharp saw. The Consulting Arborist will identify where root pruning is required and monitor all root pruning activities.
3. Fences have been erected to protect trees to be preserved. Fences define a specific **TREE PROTECTION ZONE** for each tree or group of trees. Fences are to remain until all site work has been completed. Fences may not be relocated or removed without permission of the Consulting Arborist.
4. If temporary haul or access roads must pass over the root area of trees to be retained, a road bed of 6" of mulch or gravel shall be created to protect the soil. The road bed material shall be replenished as necessary to maintain a 6" depth.
5. Construction trailers, traffic and storage areas must remain outside fenced areas at all times.
6. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Consulting Arborist so that appropriate treatments can be applied.
7. No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the **Tree Protection Zone**.
8. Any additional tree pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

Maintenance of impacted trees

Trees preserved at the Diablo Water District site will experience a physical environment different from that pre-development. As a result, tree health and structural stability should be monitored. Occasional pruning, fertilization, mulch, pest management, replanting and irrigation may be required. In addition, provisions for monitoring both tree health and structural stability following construction must be made a priority. As trees age, the likelihood of failure of branches or entire trees increases. Therefore, annual inspection for hazard potential is recommended.

HortScience | Bartlett Consulting



John Leffingwell
Board Certified Master Arborist WE-3966B
Registered Consulting Arborist #442

Attached: **Tree Assessment Form**
Tree Assessment Map

Tree Assessment

Honey Lane
Oakley, CA
September 2021



Tree No.	Species	Trunk Diameter (in.)	HERITAGE	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
75	Silver dollar gum	27	Yes	4	High	Full, dense crown; slightly one-sided to north; history of small branch failures.
76	Silver dollar gum	27,17	Yes	3	Moderate	Codominant at 4'; one-sided to south; history of branch failures; 17" stem bows heavy to west.
77	Silver dollar gum	6,3,2	No	2	Low	Suppressed to south; poor form and structure.
78	Silver dollar gum	27,27	Yes	4	Moderate	Codominant at base; full, dense crown; minor dieback.
79	Almond	6,5,5,4,3,1	No	3	Low	Stump sprout with multiple attachments at base; low branching.
80	Monterey pine	23	Yes	3	Moderate	Drought stressed; used as a tree house; low branching; flat topped; minor dieback.
81	California fan palm	16	No	4	Moderate	15' brown trunk; minor dead fronds.
82	Sweetgum	5,5	No	3	Low	Under utility lines; stump sprout; codominant at base.
83	Sweetgum	6,5,5,4	No	3	Low	Under utility lines; stump sprout; multiple attachments at base; full crown.
84	Sweetgum	6,4,4	No	2	Low	Under utility lines; stump sprout; multiple attachments at base; leans east; girdling root; poor form and structure.
85	Sweetgum	8,5,4	No	2	Low	Under utility lines; stump sprout; multiple attachments at 1'; full crown; decay at base.
86	Sweetgum	7,6,5	No	3	Low	Under utility lines; stump sprout; multiple attachments at base; full crown.
87	Fruitless mulberry	11	No	4	Moderate	Multiple attachments at 5'; full, dense crown; good form and structure; good young tree.
88	Siberian elm	28,26	No	2	Low	Codominant at 4'; crown is collapsing; history of large branch failures.
89	Siberian elm	12,10	No	2	Low	Codominant at 2'; suppressed to south; top failed on 10" stem.
90	Sweetgum	9	No	2	Low	Extensive dieback in upper crown; poor color.
91	Sweetgum	9	No	2	Low	Extensive dieback; poor color.
92	Fruitless mulberry	12,12	No	3	Low	Codominant at 3'; trunk bleeding on west facing stem; full, dense crown.

Tree Assessment

Honey Lane
Oakley, CA
September 2021



Tree No.	Species	Trunk Diameter (in.)	HERITAGE	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
93	Sweetgum	10	No	3	Moderate	Upright form; minor twig dieback.
94	Fruitless mulberry	18	No	3	Moderate	Multiple attachments at 6'; full, dense crown; small trunk wounds.
95	Fruitless mulberry	7	No	3	Low	Multiple attachments at 5'; thin crown; basal wound.
96	Fruitless mulberry	17	No	3	Low	Multiple attachments at 7'; thin upper crown; girdling root on west.
97	Blackwood acacia	18,17	No	3	Low	Codominant at 4' with seam below attachment; full, dense crown.

Tree Assessment Plan

Honey Lane Oakley, CA

Prepared for:
Nuvera Homes
Pleasanton, CA

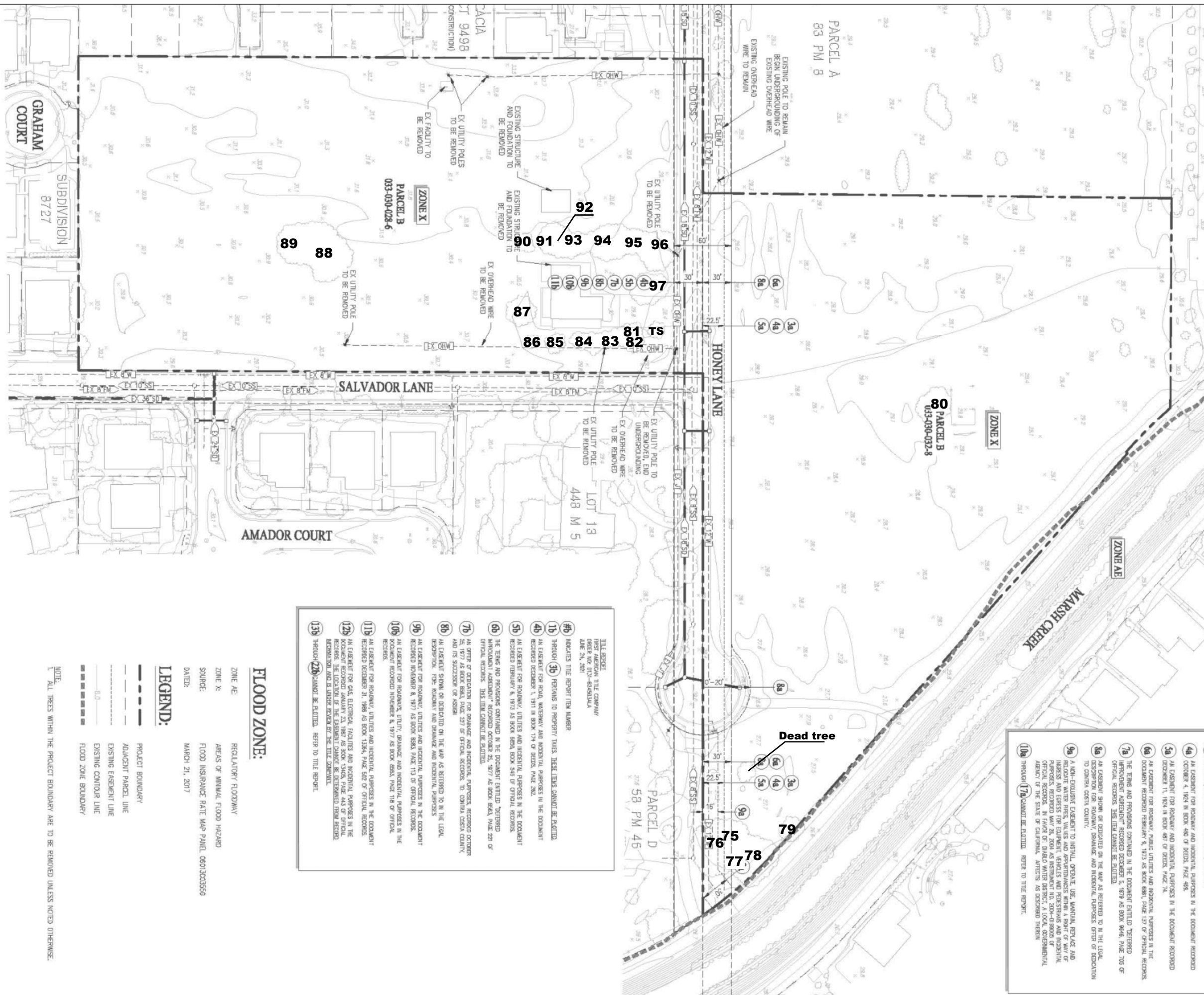
September 2021



No Scale

Notes:

- Base map provided by:
CBG San Ramon, CA
- Numbered tree locations are approximate.



TITLE REPORT
FIRST AMERICAN TITLE COMPANY
DATE 24, 2021

10 INDICATES THE REPORT ITEM NUMBER

11 REFERS TO PROPERTY TAXES. THESE ITEMS CANNOT BE EXCLUDED

12 REFERS TO EASEMENTS FOR ROADS, WATERWAYS AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED DECEMBER 1, 1911 IN BOOK 174 OF DEEDS, PAGE 282.

13 AN EASEMENT FOR ROADS, UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED FEBRUARY 6, 1912 AS BOOK 683A PAGE 548 OF OFFICIAL RECORDS.

14 THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "TERMINATED EASEMENTS" RECORDED OCTOBER 25, 1977 AS BOOK 604A, PAGE 222 OF OFFICIAL RECORDS. THIS ITEM CANNOT BE EXCLUDED.

15 AN ORDER OF DECLARATION FOR DRAINAGE AND INCIDENTAL PURPOSES, RECORDED OCTOBER 25, 1977 AS BOOK 683A, PAGE 237 OF OFFICIAL RECORDS. TO CONTRA COSTA COUNTY AND ITS SUCCESSOR OR ASSAIG.

16 AN EASEMENT FOR ROADS, UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED FEBRUARY 6, 1912 AS BOOK 683A, PAGE 119 OF OFFICIAL RECORDS.

17 AN EASEMENT FOR ROADS, UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED NOVEMBER 6, 1917 AS BOOK 683A, PAGE 118 OF OFFICIAL RECORDS.

18 AN EASEMENT FOR ROADS, UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED DECEMBER 31, 1989 AS BOOK 1348A, PAGE 502 OF OFFICIAL RECORDS.

19 AN EASEMENT FOR GAS, ELECTRIC, FACILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED JANUARY 23, 1987 AS BOOK 1342A, PAGE 443 OF OFFICIAL RECORDS. THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION AND IS VANDER RECORDED IN THE TITLE COMPANY.

20 THROUGH **21** CANNOT BE EXCLUDED. REFER TO TITLE REPORT.

41 AN EASEMENT FOR ROADS, UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED OCTOBER 4, 1924 IN BOOK 440 OF DEEDS, PAGE 448.

42 AN EASEMENT FOR ROADS AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED DECEMBER 11, 1924 IN BOOK 487 OF DEEDS, PAGE 74.

43 AN EASEMENT FOR ROADS, PLUMB UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED FEBRUARY 9, 1912 AS BOOK 680A, PAGE 137 OF OFFICIAL RECORDS.

44 THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "TERMINATED EASEMENTS" RECORDED DECEMBER 5, 1979 AS BOOK 944B, PAGE 703 OF OFFICIAL RECORDS. THIS ITEM CANNOT BE EXCLUDED.

45 AN EASEMENT FOR ROADS, UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED FEBRUARY 6, 1912 AS BOOK 680A, PAGE 137 OF OFFICIAL RECORDS. THIS ITEM CANNOT BE EXCLUDED.

46 A NON-EXCLUSIVE EASEMENT TO INSTALL, OPERATE, USE, MAINTAIN, REPLACE AND REMOVE WATER PIPES, VALVES AND APPURTENANCES WITH A RIGHT OF WAY OR EASEMENT FOR ROADS, UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED FEBRUARY 6, 1912 AS BOOK 680A, PAGE 137 OF OFFICIAL RECORDS. THIS ITEM CANNOT BE EXCLUDED.

47 AN EASEMENT FOR ROADS, UTILITIES AND INCIDENTAL PURPOSES IN THE DOCUMENT RECORDED FEBRUARY 6, 1912 AS BOOK 680A, PAGE 137 OF OFFICIAL RECORDS. THIS ITEM CANNOT BE EXCLUDED.

48 THROUGH **49** CANNOT BE EXCLUDED. REFER TO TITLE REPORT.

FLOOD ZONE:

REGULATORY FLOODWAY

AREAS OF ANNUAL FLOOD HAZARD

SOURCE: FLOOD INSURANCE RATE MAP PANEL 0603005556

DATE: MARCH 21, 2017

LEGEND:

PROJECT BOUNDARY

ADJACENT PARCEL LINE

EXISTING EASEMENT LINE

EXISTING CONTIGUOUS LINE

FLOOD ZONE BOUNDARY

NOTE:
ALL TREES WITHIN THE PROJECT BOUNDARY ARE TO BE REMOVED UNLESS NOTED OTHERWISE.

Appendix E
Preliminary Geotechnical Investigation

PRELIMINARY GEOTECHNICAL INVESTIGATION

On

PROPOSED RESIDENTIAL DEVELOPMENT

At

**463 and 560 Honey Lane
Oakley, California**

**For
Nuvera Homes**

By

Quantum Geotechnical, Inc.

**Project No. H020.G
July 19,2021**

QUANTUM GEOTECHNICAL, INC.

Project No. H020.G
July 19,2021

Mr. Jeffrey Lawrence
Vice President
Nuvera Homes
7041 Koll Center Pkwy., Ste. 130
Pleasanton, CA 94566

Subject: Proposed Residential Development
APN: 0330-030-028-6 and 033-030-032-8
463 and 560 Honey Lane
Oakley, California
PRELIMINARY GEOTECHNICAL INVESTIGATION

Dear Mr. Lawrence,

In accordance with your authorization, *Quantum Geotechnical, Inc.*, has investigated the geotechnical conditions at the subject site located in Oakley, California

The accompanying report presents the results of our field investigation. Our findings indicate that development of the site for the proposed development is feasible and we have provided preliminary recommendations for design and construction of the project.

Should you have any questions relating to the contents of this report or should additional information be required, please contact our office at your convenience.

Sincerely,
Quantum Geotechnical, Inc.



Simon Makdessi, P.E., G.E.
President



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PRELIMINARY GEOTECHNICAL INVESTIGATION

PURPOSE AND SCOPE

The purpose of the preliminary investigation for the proposed new residential subdivision development located at 463 and 560 Honey Lane in Oakley, California, was to evaluate the general subsurface soil conditions at the subject site. Based on the results of the investigation, preliminary criteria were established for the grading of the site, the design of foundations for the proposed development, and the construction of other related facilities on the property.

Our investigation included the following:

- a. Field reconnaissance by the Soil Engineer;
- b. Determine the general seismicity of the site in accordance with the 2019 CBC;
- c. Advancing a total of six cone penetrometer tests (CPTs);
- d. Analysis of the data and formulation of conclusions and recommendations; and
- e. Preparation of this written report.

PROPOSED DEVELOPMENT

It is our understanding that the proposed project consists of developing the site for the construction of a new residential development consisting of approximately 57 detached single family home lots along with associated utilities, asphalt pavement, five bio-retention basins, and other improvements. The structures will be one to two stories in height, of wood frame construction and founded on a post-tensioned slab foundation. Grading details are unknown at present, but it is assumed that grading will consist of cuts and fills generally up to 2 feet thick, due to the level nature of the site.

SITE LOCATION AND DESCRIPTION

The site is located in the Oakley-Sand Hill area, east of Highway 4. The site measures approximately 10.2 acres in size and consists of two sparsely developed parcels separated by Honey Lane. The northern parcel, measuring approximately 5.4 acres, is bounded by a CCWD water canal on the east, a baseball diamond to the north, vacant field to the west, and Honey Lane to the south. The southern parcel measures 4.8 acres and is bounded by Honey Lane to the north,

an adjoining sparsely developed property to the west, a residential subdivision to the south, and Salvador Lane to the east.

Ground cover onsite consists of low lying to one-foot tall, sparse, weeds and vegetation, and a few scattered mature trees. On the northern parcel of the project site there is a gravel access road off Honey Lane and then aligns along the eastern property line. On the southern parcel of the site, there is an existing single-story residence and adjacent shed structure, along with a gravel driveway connected to Honey Lane.

GENERAL GEOLOGIC CONDITIONS

The site is located within the Great Valley Geomorphic Province of California. The Great Valley Geomorphic Province consists of an elongated, north to south oriented trough between the Sierra Range to the east and the Coastal Ranges to the west. Since the Jurassic period (~145 mya) and up to present time, the Great Valley trough has accumulated thick alluvial sediments which have eroded off of each of these ranges. The sediments and their depositional context are varied, and include alluvial fan, stream channel, and estuarine deposits.

The site resides within the alluvial flatlands east of Mount Diablo, approximately 24 feet above mean sea level (USGS, 2021). Based on a review of the general geologic map of California, the site is underlain by undifferentiated Quaternary alluvial deposits (Jennings, 1977). The geologic map of the San Francisco-San Jose Quadrangle suggests that the site overlies late Pleistocene Modesto Formation sediments (Wagner et. al., 1991), as shown on Figure 2 “Regional Geologic Map. These deposits, consisting predominantly of material that has eroded off of the nearby Diablo Range to the west, and as far as the Sierra foothills and pluton to the east, generally consist of moderate to loosely consolidated silts and fine sands. Sand and gravel deposits, generally associated with paleo-channel locations, exist throughout this alluvium.

The USGS Quaternary Fault database (USGS, 2021) provides a record of quaternary active fault traces, defined as exhibiting seismicity within the last 1.6 million years based on historic mapping and observations. A list of Holocene active fault traces within 20 miles of the site is provided in Table I below. Fault traces within the vicinity of the site are as indicated on Figure 1, “Site Vicinity and Fault Map”, attached to Appendix A.

The California Geological Survey’s published Seismic Hazard Zone Reports do not yet include the Oakley quadrangle. Due to the young nature of the deposits, and the possibility of encountering groundwater within the upper 50 feet of the subsurface, liquefaction settlement hazards should be considered in the design of the proposed subdivision. Special Publication 117A of the California Geological Survey recommends characterizing the upper 50 feet of subsurface material for liquefaction settlement potential (CGS, 2008). We have reviewed the California DWR Water Data Library which indicated that there is one well which has recorded groundwater data within proximity of the site. This well, identified as state well number 379799N1216911W001, has recorded groundwater levels between 20 and 65 feet below ground surface, approximately, within the last 10 years.

Table I
List of Holocene Faults

Fault ID	Distance from Site (mi)	USGS Activity Level (yrs)
Midland	3.4	< 1.6 mya
Davis	4.7	< 1.6 mya
Greenville	11.5	< 15 kya
Rio Vista	15.6	< 130 kya
Midway	16.6	< 130 kya
Concord	17.2	< 15 kya
Mount Diablo Thrust	17.8	< 1.6 mya

INVESTIGATION

The field investigation was performed on April 23, 2021, and included a reconnaissance of the site and the advancement of six Cone Penetrometer Tests (CPTs), at the locations shown on Figure 3, “Site Plan” attached to Appendix A.

The CPTs were advanced via specialized drilling equipment using direct push methods, to depths of 50 feet. The CPT holes were backfilled with grout, and overseen by a County inspector..

The stratification of the soils, and descriptions are presented on the CPT logs contained within Appendix A.

SUBSURFACE CONDITIONS

In general the CPTs found 10 feet of medium dense sand, over 10 feet of firm silty clay, underlain by 20 feet of medium dense to dense sand. From 40 feet to 50 feet, firm/stiff clay was encountered to the maximum depth explored of 50 feet.

Groundwater was estimated to have been encountered at 18 feet from the CPTs. Evaluation of groundwater from CPTs is not very accurate but does provide a reasonable estimate.

A more thorough description and stratification of the soil conditions are presented on the respective, “Cone Penetrometer Logs” in Appendix A. The approximate locations of the borings are shown on Figure 3, “Site Plan” Appendix A.

LIQUEFACTION POTENTIAL EVALUATION

Liquefaction occurs primarily in relatively loose, saturated, cohesionless soils. Under earthquake stresses, these soils become “quick”, lose their strength and become incapable of supporting the weight of the overlying soils or structures. The data used for evaluating liquefaction potential of the subsurface soils consisted of the penetration resistance, the soil gradation, the relative density of the materials, and the groundwater level. For the purpose of our evaluation, we have assumed a high design groundwater table of 15 foot depth.

Loose to medium dense cohesionless soil such as sands and some soft to firm silts and low plasticity clays are potentially liquefiable, while dense and very dense cohesionless sands and gravels are considered to have a very low potential for liquefaction.

Some of the medium sand layers between 20 to 40 feet are potentially liquefiable.

Based on the data from the CPTs, it is estimated that a liquefaction induced settlement of up to 2.5 to 3 inches may occur. Differential settlements of 1.25 to 1.5 inches over 50 feet are estimated.

Due to the presence of a thick predominantly non-liquefiable cover overlying any potential liquefiable sand layers, no sand boils are expected and will limit any surface manifestations of liquefaction to differential settlements estimated above.

DYNAMIC COMPACTION/SETTLEMENT EVALUATION

Strong earthquake shaking can cause densification of loose to medium dense cohesionless soils above the groundwater table. The cohesionless soil above the groundwater table was generally medium dense and has little potential for dynamic settlement.

2019 CBC SEISMIC DESIGN CRITERIA

The potential damaging effects of regional earthquake activity should be considered in the design of structures. As a minimum, seismic design should be in accordance with Chapter 16 of the 2019 California Building Code (CBC). The 2019 CBC utilizes the design procedures outlined in the ASCE 7-16 Standard.

Using the criteria in Chapter 20 of ASCE 7-16, in its current condition, the site is classified as Site Class F, due to the presence of liquefiable soil, and a site response analysis is required. However, per the requirements of ASCE 7-10, section 20.3.1.1, a site response analysis is not required because the fundamental period of vibration of the proposed structures is less than 0.5 seconds, and the seismic design can be based on using a site class as determined from Table 20.3-1. Accordingly, the site is classified as Site Class D. The seismic design parameters have been developed using the online “Seismic Design Maps” tool by the Structural Engineering Association (SEA) and Office of Statewide Health Planning and Development (OSHPD) and a site location based on longitude and latitude (SEA-OSHPD, 2021). The parameters generated for the subject site for a latitude of 37.98003547° N, and longitude of 121.68924343° W, are presented in Table II:

According to Section 11.4.8 of ASCE 7-16, a ground motion hazard analysis shall be performed when the coefficient S_1 has a value greater than or equal to 0.2 for Site Class D and E sites. A ground motion hazard analysis is excepted if the C_s value is determined by equation 12.8-2 of ASCE 7-16. This is to be determined by the structural engineer. In the event that the calculated C_s values do not trigger a ground motion hazard analysis, the following parameters may be used.

Table II
2019 CBC Seismic Design Criteria

Seismic Parameter	Coefficient	Value
Site Class – Stiff Soil		D
Peak Ground Acceleration (Site Modified)	$PGAM$	0.587
Mapped MCE Spectral Acceleration at Short-Period 0.2 secs	S_s	1.299
Mapped MCE Spectral Acceleration at a Period of 1.0s	S_1	0.457
Adjusted MCE, 5% Damped Spectral Response Acceleration at Short Period of 0.2s	S_{MS}	1.299
Adjusted MCE, 5% Damped Spectral Response Acceleration at Period of 1.0s	S_{M1}	0.842
Design 5% Damped Spectral Response Acceleration at Short Period of 0.2s for Occupancy Category I/II/III	S_{DS}	0.866
Design 5% Damped Spectral Response Acceleration at Period of 1.0s for Occupancy Category I/II/III	S_{D1}	0.562

DISCUSSIONS, CONCLUSIONS AND RECOMMENDATIONS

GENERAL

1. From a geotechnical point of view, the site is suitable for the construction of the proposed residential development provided the preliminary recommendations presented in this report are incorporated into the project plans and specifications.
2. The most prominent geotechnical features of this site are;
 - a) The presence of non-expansive near surface sandy soil
 - b) and potentially liquefiable soil deposits.
3. As indicated earlier, combined liquefaction and dynamic settlements are estimated to be of the order of 2.5 to 3 inches, with differential settlement of 1.25 inches to 1.5 inches over 50 feet. This differential settlement must be incorporated into the design of gravity utilities and foundations.

DEMOLITION

4. Prior to any grading, demolition of the existing structures on the site should be completed. Demolition should include the complete removal of all surface and subsurface structures, including any leach fields or septic tanks. In addition, all known underground structures must be located on the grading plans so that proper removal may be carried out, and all excavations are left open for proper backfilling. It is vital that Quantum Geotechnical Inc., intermittently observe the removal of subsurface structures and excavations, and be notified in ample time to ensure that no subsurface structures or excavations are covered. If Quantum Geotechnical Inc., is not contacted to observe the demolition and removal of subsurface structures, further backhoe exploratory investigation will need to be performed prior to the commencement of grading.
5. Excavations made by the removal of the structures and trees may create disturbed/loose areas, and where this occurs the loose material should be excavated and replaced as engineered fill, or if it is less than 1 foot in thickness, can be compacted in place, prior to placing fill. We recommend that excavations greater than 1 foot deep be left open by the demolition contractor for backfill in accordance with the requirements for engineered fill. The removal of underground structures should

be done under the observation of the Soil Engineer to verify adequacy of the removal and that subsoils are left in proper condition for placement as engineered fills. Any soil exposed by the removal operations which are deemed soft or unsuitable by the Soil Engineer, shall be excavated as uncompacted fill and be removed as required by the Soil Engineer during grading. Any resulting excavations should be properly backfilled with engineered fill under the observation of the Soil Engineer. It is important that Quantum Geotechnical Inc., be present during removal activities to verify that all excavations created by removal of subsurface structures are left open and located on a grading plan. If any excavations are loosely backfilled without our knowledge and these excavations are not located and backfilled during grading, future settlement of these loosely filled excavations could occur and may cause damage to structures and improvements.

GRADING

6. The grading requirements presented herein are an integral part of the grading specifications presented in Appendix B of this report and should be considered as such.

7. Grading activities during the rainy season will be hampered by excessive moisture. Grading activities may be performed during the rainy season, however, achieving proper compaction may be difficult due to excessive moisture; and delays may occur. In addition, measures to control potential erosion may need to be provided. Grading performed during the dry months will minimize the occurrence of the above problems.

8. Demolition of the existing structures and grubbing of trees may create disturbed/loose areas, and where this occurs the loose material should be excavated and replaced as engineered fill, or if it is less than 1 foot in thickness, can be compacted in place, prior to placing fill. Any old fill or loose soil must be removed exposing non-yielding native soil.

9. Currently, the site contains short grass and dispersed mature tall trees. Vegetation conditions may be different at the time of grading, and the extent of any stripping, mowing or discing as part of site preparation, will be reevaluated at the time of grading. Any strippings will be stockpiled in an approved area that is unaffected by grading operations until their future use. Organically contaminated soil material may be utilized in landscape areas located outside the building footprint.

10. After removal of any loose surface soil, and prior to the placement of any fill, the top 8 inches of exposed native ground for fill areas should be scarified and compacted to a degree of relative compaction ranging from at least 90% at 2 to 3 percent above optimum moisture content as determined by ASTM D1557-12 Laboratory Test Procedure.

11. The site may be brought to the desired finished grades by placing engineered fill in lifts of 8 inches in uncompacted thickness and compacting to the relative compaction requirements stated above, ranging from at least 90% at 2 to 3 percent above optimum moisture content as determined by ASTM D1557-12 Laboratory Test Procedure.

12. All soils encountered during our investigation are suitable for use as engineered fill when placed and compacted at the recommended moisture content and provided it does not contain any debris. Concrete from the demolition can be used as in the fill provided the concrete is broken down to pieces less than 6 inches in size and thoroughly mixed with soil material.

13. The near surface sandy soil is susceptible to erosion and we recommend that the bio basin side slopes be inclined at 3:1 (horizontal to vertical). The grade of the surface soil behind the basins should be designed to slope away from the top of the basin.

SURFACE AND SUBSURFACE DRAINAGE

14. All finish grades should be provided with a positive gradient to an adequate discharge point in order to provide rapid removal of surface water runoff away from all foundations. No ponding of water should be allowed on the pad or adjacent to the foundations. Surface drainage must be designed by the project Civil Engineer and maintained by the property owners at all times. The pad should be graded in a manner that surface flow is to a controlled discharge system.

15. Lot slopes and drainage must be provided by the project Civil Engineer to remove all storm water from the pad and to minimize storm and/or irrigation water from seeping beneath the structures. Should surface water be allowed to seep under the structure, foundation movement resulting in structural cracking and damage will occur. Finished grades around the perimeter of the structure should be compacted and should be sloped at a minimum 2% gradient away from the

exterior foundation. Surface drainage requirements constructed by the builder should be maintained during landscaping. In particular, the creation of planter areas confined on all sides by concrete walkways or decks and the residence foundation is not desirable since any surface water due to rain or irrigation becomes trapped in the planter area with no outlet. If such a landscape feature is necessary, surface area drains in the planter area or a subdrain along the foundation perimeter must be installed.

BIO-FILTRATION FACILITIES

16. According to local government requirements, roof downspout and drain flows should be directed to at grade bio-filtration areas, or raised planter boxes next to the building perimeter, where possible. From a geotechnical and maintenance point of view it is undesirable to discharge water into at grade bio-filtration areas near foundations, because of the possibility of water ponding for sustained periods of time, potentially creating excessive moisture related issues. However, certain design features could be made to minimize such potential effects. In addition, the property owners must always maintain the bio-filtration area to ensure that they are performing as designed and that water does not pond in the area for longer than 48 hours.

17. Typically, the bio-filtration areas consist of an 18 inch layer of sandy loam over 18 inches of permeable gravel material. The top of the bio-filtration area is typically approximately 1 foot below pad grade, therefore, the base of the bio-filtration area will be approximately 4 feet below pad grade. The base of the bio-filtration area will typically contain a perforated pipe to drain any water that may collect within 24 hours. In some situations, the bio-filtration areas may be located immediately adjacent the building structure.

18. Where bio-filtration areas are located closer than 5 feet of the building, the section of loose loam and gravel will provide reduced lateral support, and we recommend a deepened footing be constructed along the perimeter the building adjacent to the bio-filtration area and extending 3 feet beyond in plan length. The depth of the deepened footing will depend on how close the bio-filtration area is located to the building perimeter. As a guide, the footing is to be deepened such that when an imaginary line inclined at 45 degrees from the outside edge base of the footings, it extends below the base of the bio-filtration area excavation. Where bio-filtration areas are located

further than 5 feet, no special design is required. Provided the bio-filtration facility is lined with an impermeable liner, no waterproofing of the deepened footing is required.

19. Where bio-filtration areas are located closer than 3 feet of street pavements, a deepened curb footing is required. Where bio-filtration areas are located closer than 1 foot of street pavements, because pavements do not have a positive connection to a deepened curb/footing, the deepened curb/footing may need to be designed as a retaining wall rigid enough to create minimal lateral deflections.

20. Where bio-filtration areas are located closer than 2 feet of hardscape areas, a deepened edge footing is required. The deepened edge should extend at least 1 foot below the subgrade. Where the bio-filtration area is immediately adjacent the hardscape, the deepened edge is to extend at least 3 inches below the base of the bio-filtration system.

FOUNDATIONS

21. Provided the site is prepared as recommended in the “Grading” section, a post-tensioned slab foundation may be satisfactorily used. The slab must be designed to tolerate the soil criteria presented in this section and the estimated total and differential settlements due to liquefaction provided earlier.

Post Tensioned Slab-on-Grade

22. Post-tensioned slabs should be designed using the following criteria which is based on the design method presented in the Post-Tensioning Institute, Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive Soils (PTI DC10.5-12), 2012. Using the relevant site soil and climatic parameters, the recommended geotechnical criteria for use in the design of the post-tensioned slabs is as follows;

	<u>Swelling Mode</u>	
	<u>Center Lift</u>	<u>Edge Lift</u>
Edge Moisture Variation Distance (e_m)	9.0 feet	5.2 feet
Differential Soil Movement (y_m)	0.45 inches	0.85 inches

The maximum allowable bearing pressure at the base of the slab and for localized thickened footings should not exceed 2,000 p.s.f. for dead plus sustained live loads.

24. As indicated earlier, bio-filtration areas may be designed close to the foundation. Where bio-filtration areas are located closer than 5 feet of the building, the section of loose loam and gravel, will provide reduced lateral support, and we recommend a deepened footing be constructed along the perimeter the building adjacent to the bio-filtration area and extending 3 feet beyond in plan length. The depth of the deepened footing will depend on how close the bio-filtration area to the building perimeter. As a guide, the footing is to be deepened such that when an imaginary line inclined at 45 degrees from the outside edge base of the footings, it extends below the base of the bio-filtration area excavation.

General Construction Requirements for Post Tensioned Slab-on-Grade

25. Prior to construction of the slab, the slab subgrade should be observed by the Soil Engineer to verify that all under-slab utility trenches greater than 18 inches in width have been properly backfilled and compacted, and that no loose or soft soils are present on the slab subgrade.

26. The near surface soils is mainly sand. Slabs founded on sandy soil do not require pre-saturation.

27. The four (4) inch (minimum thickness) layer of gravel typically placed to provide a capillary break beneath concrete slab-on-grade floors may be omitted beneath the monolithically poured mat slab foundations provided that the slabs are at least 10 inches thick as recommended above. If it is desired to use a 4 inch layer or thinner of gravel section, the gravel should consist of broken stone, crushed or uncrushed gravel, quarry waste, or a combination thereof. The aggregate shall be free from deleterious substances. It shall be of such quality that the absorption of water in a saturated dry condition does not exceed 3% of the oven dry weight of the sample. The material shall be $\frac{3}{4}$ " minus material with no more than 3% passing the #200 sieve, as specified in Appendix B.

28. A moisture vapor retarder/barrier is recommended beneath all slabs-on-grade that will be covered by moisture-sensitive flooring materials such as vinyl, linoleum, wood, carpet, rubber,

rubber-backed carpet, tile, impermeable floor coatings, adhesives, or where moisture-sensitive equipment, products, or environments will exist. We recommend that design and construction of the moisture vapor retarder/barrier conform to Section 1805 of the 2013 CBC and relevant sections of American Concrete Institute (ACI) guidance documents 302.1R-04, 302.2R-06 and 360R-10.

29. The moisture vapor retarder/barrier can be placed above the 4 inches of gravel or directly on the soil subgrade and should consist of a minimum 10 mils thick polyethylene with a maximum perm rating of 0.1 in accordance with ASTM E 1745. Seams in the moisture vapor retarder/barrier should be overlapped no less than 6 inches or in accordance with the manufacturer's recommendations. Joints and penetrations should be sealed with the manufacturer's recommended adhesives, pressure-sensitive tape, or both. The contractor must avoid damaging or puncturing the moisture vapor retarder/barrier and repair any punctures with additional polyethylene properly lapped and sealed. The installation of the vapor retarder membrane must be in conformance with ASTM E1643.

30. A minimum of two inches of wetted sand should be placed over the vapor retarder membrane to facilitate curing of the concrete and to act as a cushion to protect the membrane. The perimeter of the mat should be thickened to bear on the prepared building pad and to confine the sand. During winter construction, sand may become saturated due to rainy weather prior to pouring. Saturated sand is not desirable because the sand cushion may become over saturated, and boil into the concrete causing undesirable structural monopolies of sand pockets within the slab. As an alternate, a sand-fine gravel mixture that is stable under saturated conditions may be used. However, the material must be approved by the Soil Engineer prior to use.

31. Alternatively, the sand layer may be eliminated provided the concrete has a maximum water/cement ratio of 0.45 and a 10 mil Class A vapor retarder membrane, such as Stego® Wrap. In any case, the vapor retarder/barrier should have a maximum perm rating of 0.3 in accordance with ASTM E 1745. Seams in the moisture vapor retarder/barrier should be overlapped no less than 6 inches or in accordance with the manufacturer's recommendations. Joints and penetrations should be sealed with the manufacturer's recommended adhesives, pressure-sensitive tape, or both. The contractor must avoid damaging or puncturing the vapor retarder/barrier and repair any punctures with additional polyethylene properly lapped and sealed.

32. It is our understanding that the preferred post-tensioned slab section is to consist of a slab with concrete having a water/cement ratio of no greater than 0.45, over a vapor retarder membrane underlain by soil subgrade. The sand and gravel sections that are sometimes typically used will not be utilized for this project. This is acceptable from a geotechnical point of view.

MISCELLANEOUS CONCRETE FLATWORK

33. Miscellaneous flatwork, driveways, and walkways may be designed with a minimum thickness of 4.0 inches. Any exterior concrete flatwork such as driveways, steps, patios, or walkways should be designed independently of the slab, and expansion joints should be provided between the flatwork and the structural unit. Control joints should be constructed to create squares or rectangles with a maximum spacing of 15 feet on large slab areas. Control joints for walkways should be constructed at a maximum of 5 feet spacing.

RETAINING WALLS

34. Retaining walls should be designed to resist lateral pressures exerted from a media having an equivalent fluid weight as follows:

Active Condition	=	45 p.c.f. for horizontal backslope
At-rest Condition	=	65 p.c.f.
Passive Condition	=	250 p.c.f.
Coefficient of Friction	=	0.30

35. For a non-horizontal backslope, the active condition equivalent fluid weight can be increased by 1.5 p.c.f. for each 2 degree rise in slope from the horizontal.

36. Active conditions occur when the top of the wall is free to move outward. At-rest conditions apply when the top of wall is restrained from any movement.

37. It should be noted that the effects of any surcharge, traffic or compaction loads behind the walls must be accounted for in the design of the walls.

38. The above criteria are based on fully drained conditions. If drained conditions are not possible, then the hydrostatic pressure must be included in the design of the wall. An additional linear distribution of hydrostatic pressure of 63 p.c.f. should be adopted, in this case.

39. In order to achieve fully-drained conditions, a drainage filter blanket should be placed behind the wall. The blanket should be a minimum of 12 inches thick and should extend the full height of the wall to within 12 inches of the surface. If the excavated area behind the wall exceeds 12 inches, the entire excavated space behind the 12-inch blanket should consist of compacted engineered fill or blanket material. The drainage blanket material may consist of either granular crushed rock and drain pipe fully encapsulated in geotextile filter fabric or Class II permeable material that meets CalTrans Specification, Section 68, with drainage pipe but without fabric. A 4-inch perforated drain pipe should be installed in the bottom of the drainage blanket and should be underlain by at least 4 inches of filter type material. A 12-inch cap of clayey soil material should be placed over the drainage blanket. All back drains should be outlet to suitable drainage devices. Retaining wall less than 3 feet in height may be provided with backdrains or weep holes.

40. As an alternate to the 12-inch drainage blanket, a pre-fabricated strip drain (such as Miradrain) may be used between the wall and retained soil. In this case, the wall must be designed to resist an additional lateral hydrostatic pressure of 30 p.c.f.

41. Piping with adequate gradient shall be provided to discharge water that collects behind the walls to an adequately controlled discharge system away from the structure foundation.

42. The retaining walls may be founded on a friction pier foundation or on spread footing foundations for walls that are not a part of a building structure. Spread footing and pier design criteria are given below.

RETAINING WALL/SOUNDWALL FOUNDATION - SPREAD FOOTINGS

43. Spread footings should have a minimum depth of eighteen (18) inches below lowest adjacent pad grade (i.e., trenching depth) for soil subgrade. At this depth, the recommended design bearing pressure for continuous footings should not exceed 2,500 p.s.f. due to dead plus sustained live loads and 3,300 p.s.f. due to all loads which include wind and seismic.

44. To accommodate lateral loads, the passive resistance of the foundation soil can be utilized. The passive soil pressures can be assumed to act against the front face of the footing below a depth of one foot below the ground surface. It is recommended that a passive pressure equivalent to that of a fluid weighing 250 p.c.f. be used. The weight of the soil above the footing can be used in the frictional calculations. For design purposes, an allowable friction coefficient of 0.30 can be assumed at the base of the spread footing.

RETAINING WALL/SOUNDWALL FOUNDATION - PIER FOOTINGS

45. The piers should be designed on the basis of skin friction acting between the soil and the pier. For the soils at the site, an allowable skin friction value of 350 p.s.f. can be used for combined dead and live loads, below a depth of 1 feet. This value can be increased by one-third for total loads which include wind or seismic forces. The size, depth and spacing of the piers is to be determined by the structural engineer.

46. To resist lateral loads, the passive resistance of the soil can be used. The soil passive pressures can be assumed to act against the lateral projected area twice the pier diameter. It is recommended that a passive pressure equivalent to that of a fluid weighing 250 p.c.f be used below 2 feet of final pad grade.

PAVEMENT AREAS

47. R-value tests were not performed as part of this investigation, as the soil expected at subgrade level is not known and depends on the planned grading. Assuming the subgrade material will consist of the sandy and silty material, we will assume an R-value of 10 for preliminary design.

48. Based on an R-Value of 10, the following flexible pavement sections are recommended.

Traffic Index	AC (inches)	Class II¹ AB (inches)
4.5	3.0	8.0
5.0	3.0	9.0
5.5	3.0	11.0
6.0	4.0	11.0
7.0	4.0	15.0

Notes: ¹Minimum R-Value = 78
 R-Value = Resistance Value
 All Layers in compacted thickness to Cal-Trans Standard Specifications

49. After underground facilities have been placed in the areas to receive pavement and removal of excess material has been completed, the upper 6 inches of the sub-grade soil shall be scarified, moisture conditioned, and compacted to a minimum relative compaction of 95% in accordance with the grading recommendations specified in this report.

50. All aggregate base material placed subsequently should be compacted to a minimum relative compaction of 95% based on the ASTM Test Procedure of D1557-12 (latest edition). The construction of the pavement areas should conform to the requirements set forth by the latest Standard Specifications of the Department of Transportations of the State of California and/or City of Oakley, Department of Public Works.

51. If planter areas are provided within or immediately adjacent to the pavement areas, provisions should be made to control irrigation water from entering the pavement subgrade. Water entering the pavement section at subgrade level, which does not have a means for discharge, could cause softening of this zone.

UTILITY TRENCHES

52. Applicable safety standards require that trenches in excess of 5 feet must be properly shored or that the walls of the trench slope back to provide safety for installation of lines. If trench wall sloping is performed, the inclination should vary with the soil type. The underground contractor should request an opinion from the Soil Engineer as to the type of soil and the resulting inclination.

53. With respect to state-of-the-art construction or local requirements, utility lines are generally bedded with granular materials. These materials can convey surface or subsurface water beneath the structures. It is, therefore, recommended that all utility trenches which possess the potential to transport water be sealed with a compacted impervious cohesive soil material or lean concrete where the trench enters/exits the building perimeter.

54. Utility trenches extending underneath all traffic areas must be backfilled with native or approved import material and compacted to a relative compaction of 90% to within 6 inches of the subgrade. The upper 6 inches should be compacted to 95% relative compaction in accordance with Laboratory Test Procedure ASTM D1557 (latest edition). Backfilling and compaction of these trenches must meet the requirements set forth by the City of Oakley, Department of Public Works. Utility trenches within landscape areas may be compacted to a relative compaction of 85%.

PROJECT REVIEW AND CONSTRUCTION MONITORING

55. All grading and foundation plans for the development must be reviewed by the Soil Engineer prior to contract bidding or submitted to governmental agencies so that plans are reconciled with soil conditions and sufficient time is allowed for suitable mitigative measures to be incorporated into the final grading specifications.

56. **Quantum Geotechnical, Inc.** should be notified at least two working days prior to site clearing, grading, and/or foundation operations on the property. This will give the Soil Engineer ample time to discuss the problems that may be encountered in the field and coordinate the work with the contractor.

57. Field observation and testing during the demolition and/or foundation operations must be provided by representatives of *Quantum Geotechnical, Inc.* to enable them to form an opinion regarding the adequacy of the site preparation, the acceptability of fill materials, and the extent to which the earthwork construction and the degree of compaction comply with the specification requirements. Any work related to the grading and/or foundation operations performed without the full knowledge and under the direct observation of the Soil Engineer will render the recommendations of this report invalid. This does not imply full-time observation. The degree of observation and frequency of testing services would depend on the construction methods and schedule, and the item of work.

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LIMITATIONS AND UNIFORMITY OF CONDITIONS

1. It should be noted that it is the responsibility of the owner or his representative to notify *Quantum Geotechnical, Inc.*, in writing, a minimum of two working days before any clearing, grading, or foundation excavations can commence at the site.
2. The recommendations of this report are based upon the assumption that the soil conditions do not deviate from those disclosed in the borings and from a reconnaissance of the site. Should any variations or undesirable conditions be encountered during the development of the site, *Quantum Geotechnical*, will provide supplemental recommendations as dictated by the field conditions.
3. This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information and recommendations contained herein are brought to the attention of the Architect and Engineer for the project and incorporated into the plans and the necessary steps are taken to see that the Contractor and Subcontractors carry out such recommendations in the field.
4. At the present date, the findings of this report are valid for the property investigated. With the passage of time, significant changes in the conditions of a property can occur due to natural processes or works of man on this or adjacent properties. In addition, legislation or the broadening of knowledge may result in changes in applicable standards. Changes outside of our control may render this report invalid, wholly or partially. Therefore, this report should not be considered valid after a period of two (2) years without our review, nor should it be used, or is it applicable, for any properties other than those investigated.
5. Notwithstanding all the foregoing, applicable codes must be adhered to at all times.

APPENDIX A

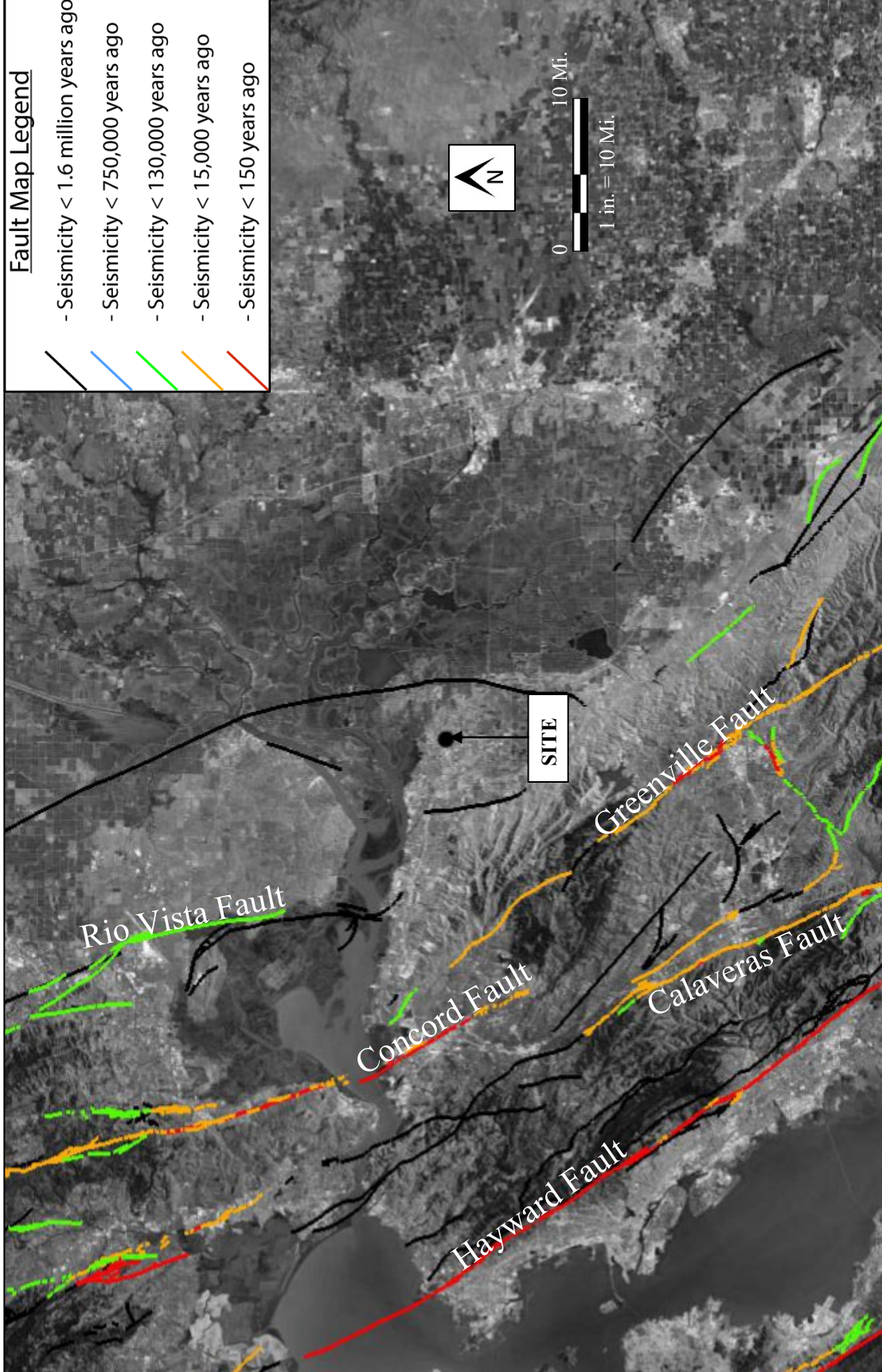
Figure 1 - Site Vicinity and Fault Map

Figure 2 Regional Geologic Map

Figure 3 - Site Plan

CPT Plots

1. Base Map: Google Earth, 2021
2. Fault Map Overlay: U.S. Geological Survey and California Geological Survey. 2021. Quaternary fault and fold database for the United States. Accessed July 20, 2021 from USGS web site: <http://earthquakes.usgs.gov/regional/qfaults/>.



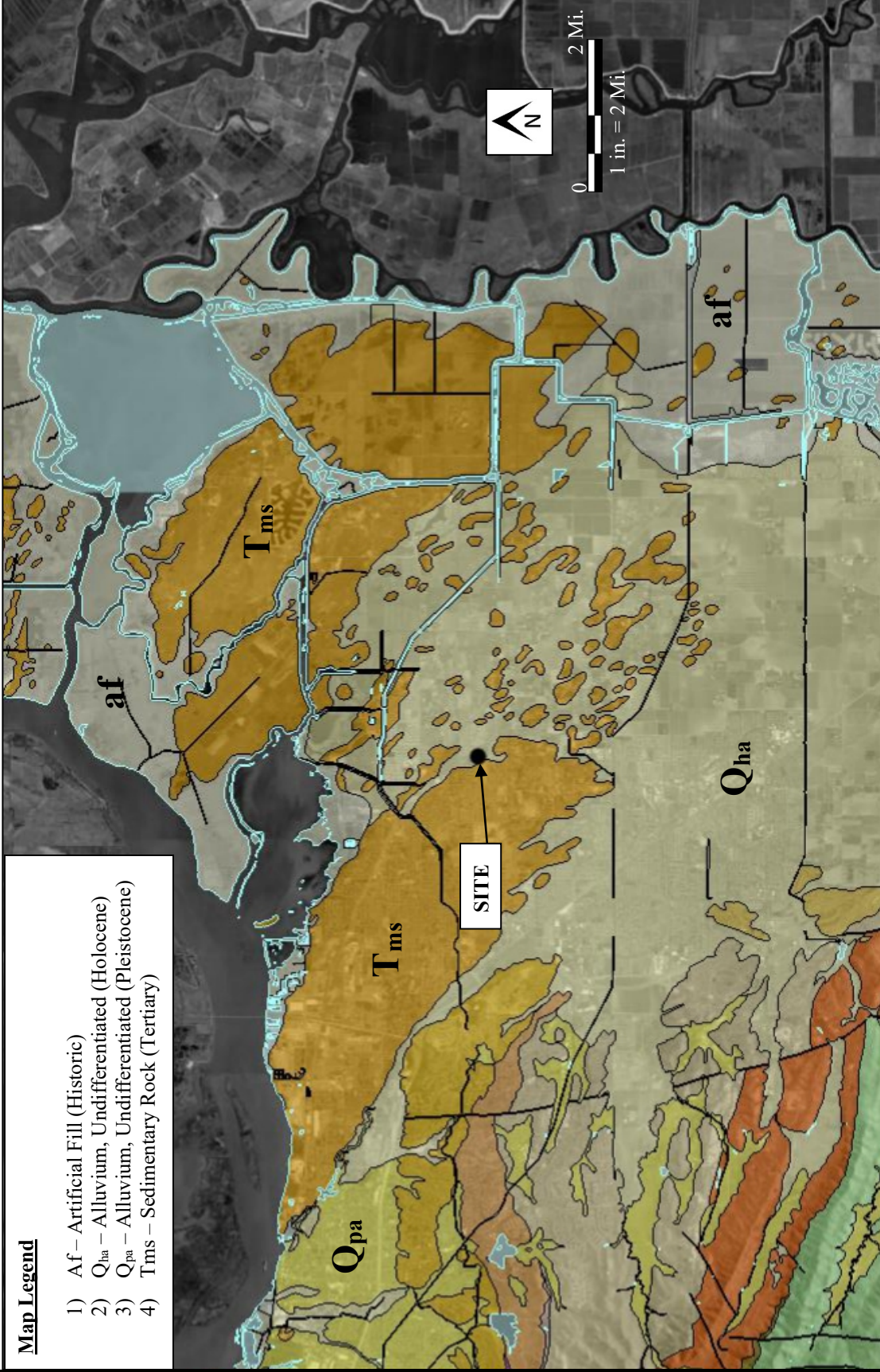
SITE VICINITY AND FAULT MAP

<p>QUANTUM GEOTECHNICAL, INC.</p>	<p>Proposed Residential Development Honey Lane, Oakley Contra Costa County, California</p>		<p>Project No. H020.G</p>	<p>Drawn by: D.T.</p>	<p>Figure No. 1</p>

1. Base Map: Google Earth, 2021
2. Geologic Map Overlay: Graymer, R. W., Moring, B. C., Saucedo, G. J., Wentworth, C. M., Brabb, E. E., and Knudsen, K. L., 2006. "Geologic Map of the San Francisco Bay Region". USGS. Scientific Investigations Map 2918.

Map Legend

- 1) Af – Artificial Fill (Historic)
- 2) Q_{ha} – Alluvium, Undifferentiated (Holocene)
- 3) Q_{pa} – Alluvium, Undifferentiated (Pleistocene)
- 4) T_{ms} – Sedimentary Rock (Tertiary)



REGIONAL GEOLOGIC MAP

**QUANTUM
GEOTECHNICAL, INC.**

**Proposed Residential Development
Honey Lane, Oakley
Contra Costa County, California**

**Project No.
H020.G**

**Drawn by:
D.T.**

**Figure No.
2**



SITE PLAN

<p>Proposed Residential Development Honey Lane, Oakley Contra Costa County, California</p>	<p>Project No. H020.G</p>	<p>Drawn by: D.T.</p>	<p>Figure No. 3</p>
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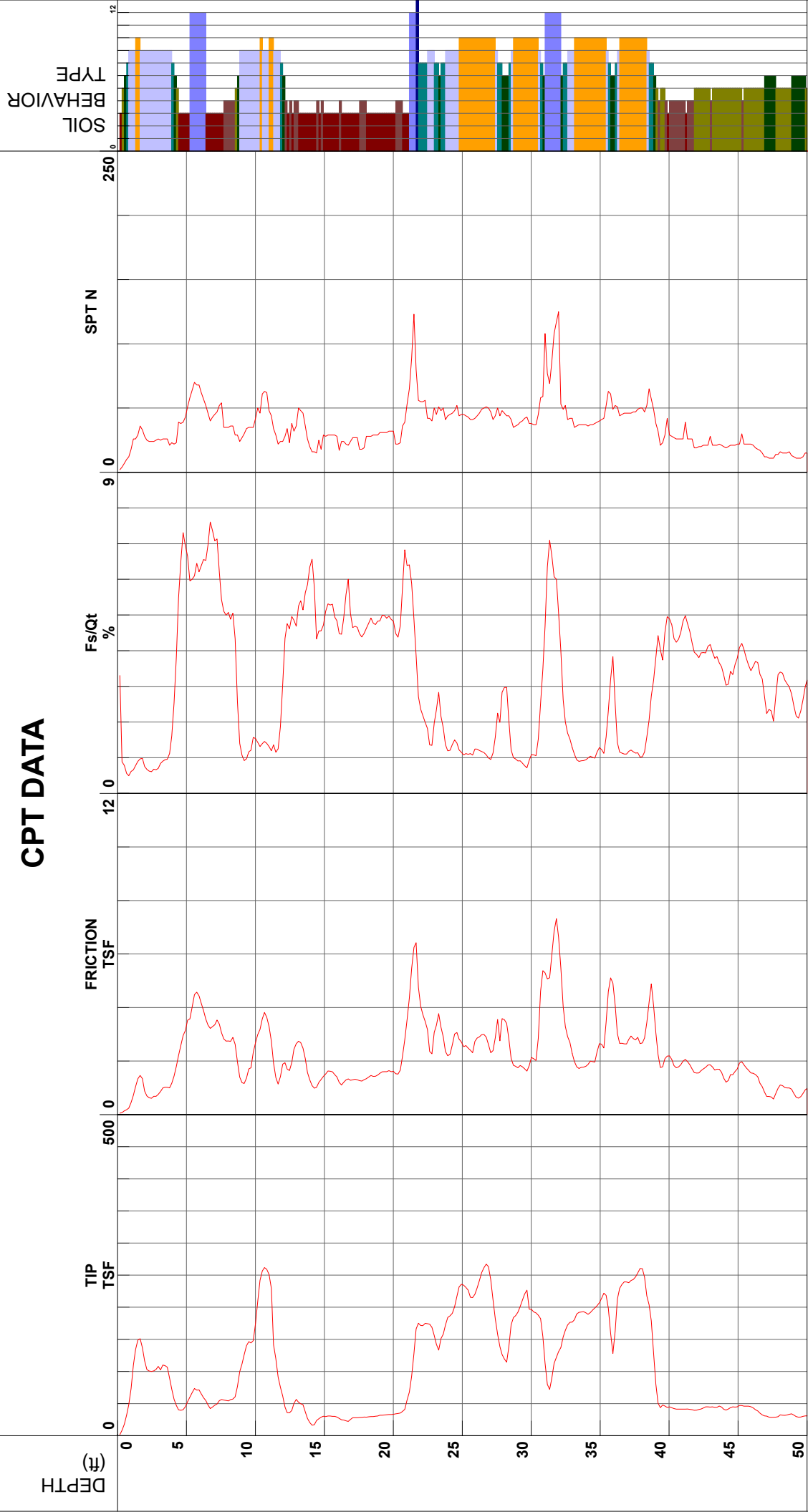
**QUANTUM
 GEOTECHNICAL, INC.**

Quantum Geotechnical, Inc



Project	Honey Lane	Operator	AJ-OO
Job Number	H020.G	Cone Number	DDG1587
Hole Number	CPT-01	Date and Time	4/23/2021 8:36:26 AM
EST GW Depth During Test		Maximum Depth	50.52 ft
		Filename	SDF(519).cpt

Net Area Ratio .8

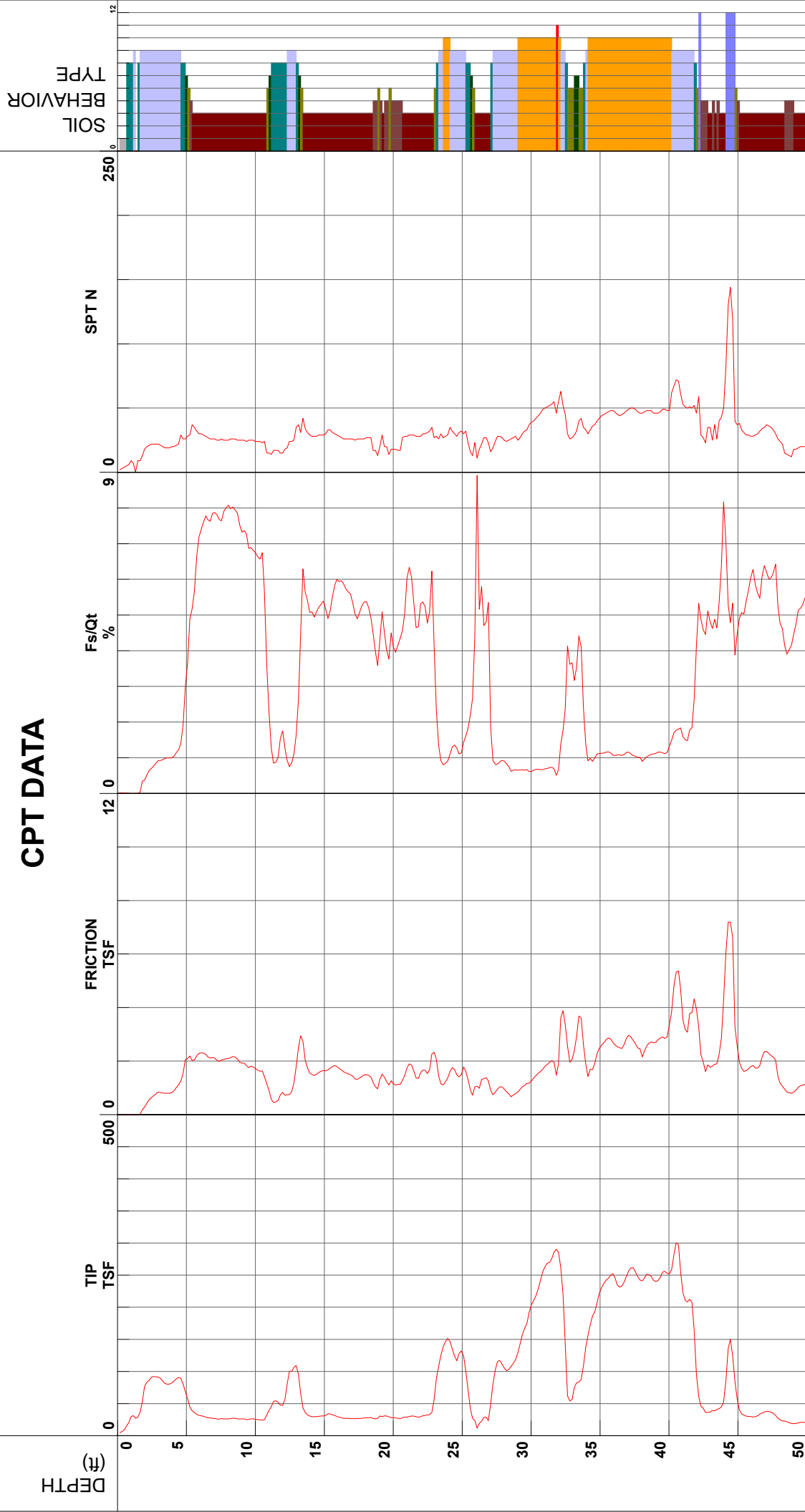


Quantum Geotechnical, Inc



Project	Honey Lane	Operator	AJ-00
Job Number	H020.G	Cone Number	DDG1587
Hole Number	CPT-02	Date and Time	4/23/2021 9:44:32 AM
EST GW Depth During Test		Maximum Depth	50.52 ft
		Filename	SDF(520).cpt

Net Area Ratio .8



- 1 - sensitive fine grained
- 2 - organic material
- 3 - clay
- 4 - silty clay to clay
- 5 - clayey silt to silty clay
- 6 - sandy silt to clayey silt
- 7 - silty sand to sandy silt
- 8 - sand to silty sand
- 9 - sand
- 10 - gravelly sand to sand
- 11 - very stiff fine grained (*)
- 12 - sand to clayey sand (*)

S*Soil behavior type and SPT based on data from UBC-1983

Cone Size 15cm squared

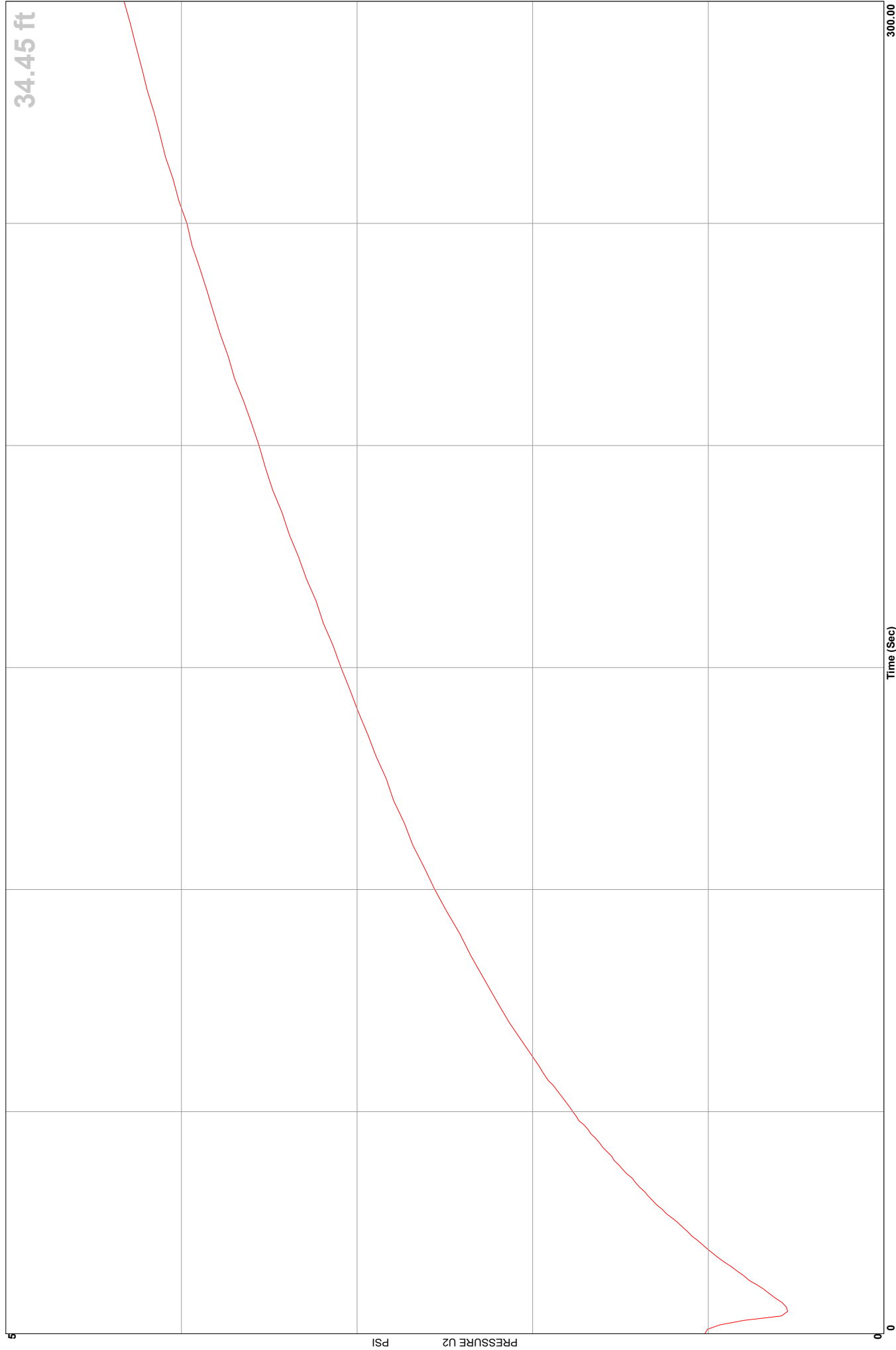


Quantum Geotechnical, Inc

Location
 Honey Lane
Job Number
 H020.G
Hole Number
 CPT-02
Equilized Pressure
 4.3

Operator
 AJ-00
Cone Number
 DDG1587
Date and Time
 4/23/2021 9:44:32 AM
EST GW Depth During Test
 24.5

GPS

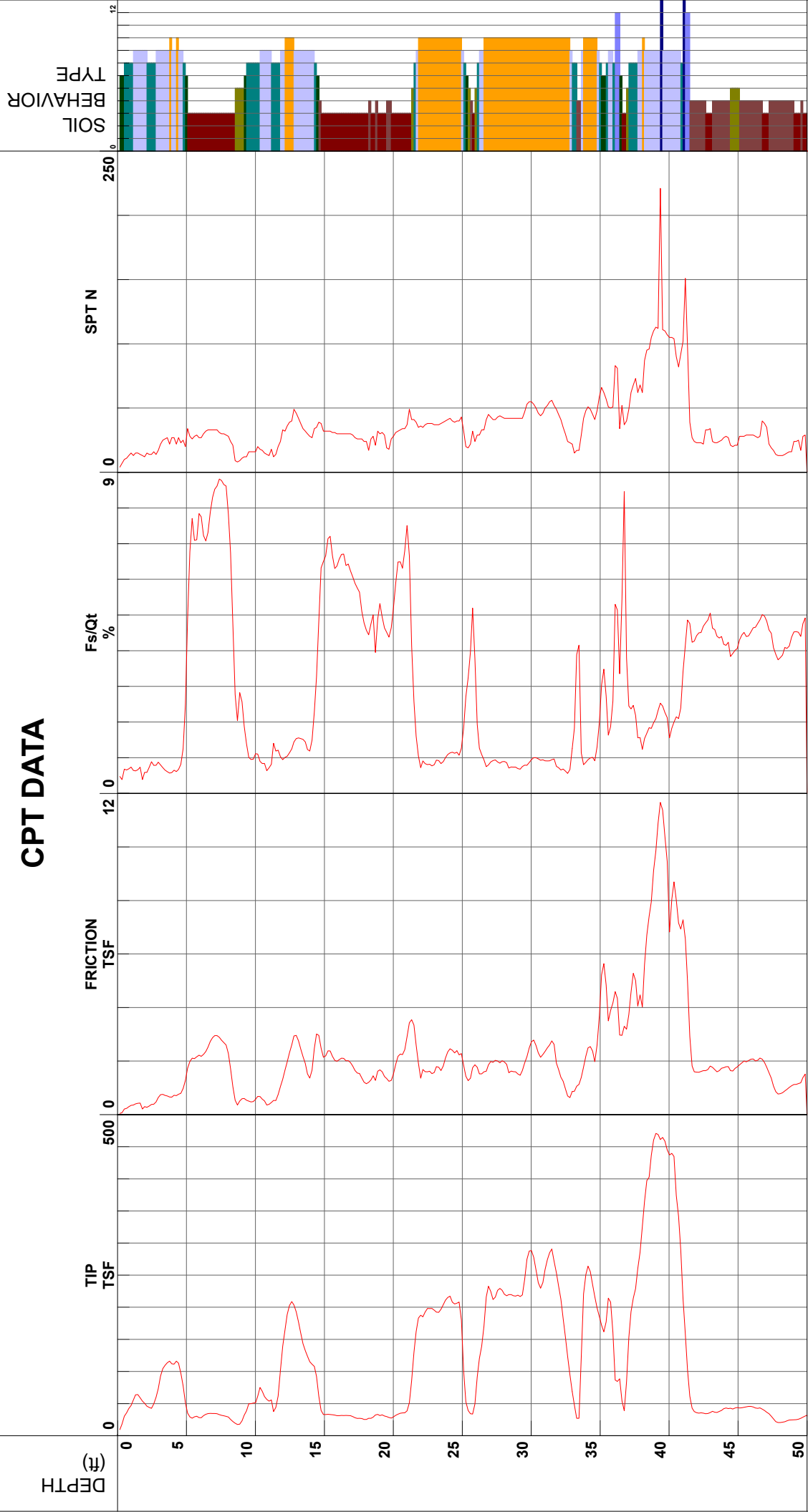




Quantum Geotechnical, Inc

Project	Honey Lane	Operator	AJ-00	Filename	SDF(521).cpt
Job Number	H020.G	Cone Number	DDG1587	GPS	
Hole Number	CPT-03	Date and Time	4/23/2021 10:55:42 AM	Maximum Depth	50.36 ft
EST GW Depth During Test			18.00 ft		

Net Area Ratio .8

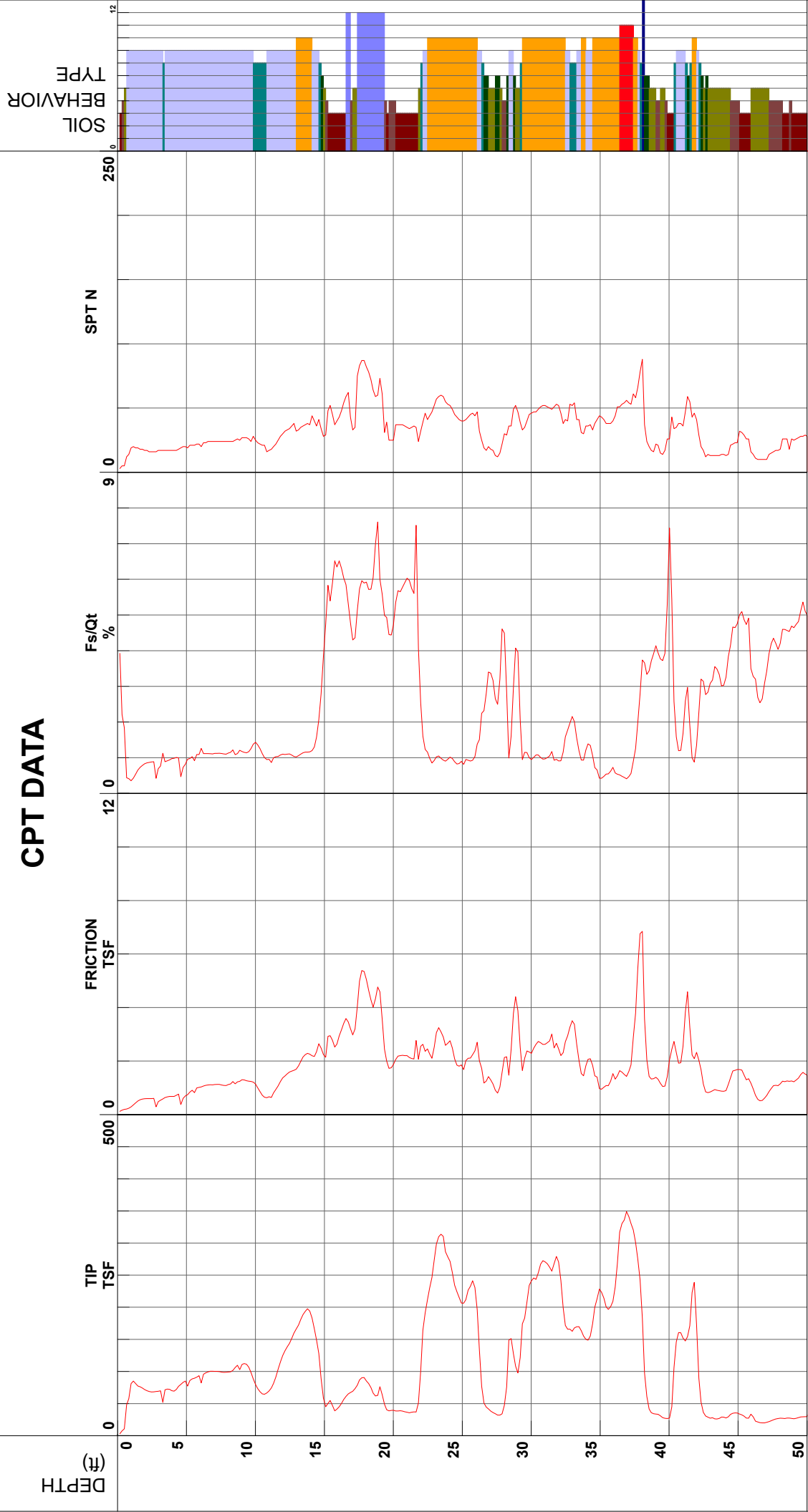


Quantum Geotechnical, Inc



Project Honey Lane
Job Number H020.G
Hole Number CPT-04
EST GW Depth During Test
Operator AJ-OO
Cone Number DDG1587
Date and Time 4/23/2021 12:31:53 PM
18.00 ft
Filename SDF(522).cpt
GPS
Maximum Depth 50.52 ft

Net Area Ratio .8



- 1 - sensitive fine grained
- 2 - organic material
- 3 - clay
- 4 - silty clay to clay
- 5 - clayey silt to silty clay
- 6 - sandy silt to clayey silt
- 7 - silty sand to sandy silt
- 8 - sand to silty sand
- 9 - sand
- 10 - gravelly sand to sand
- 11 - very stiff fine grained (*)
- 12 - sand to clayey sand (*)

S*Soil behavior type and SPT based on data from UBC-1983

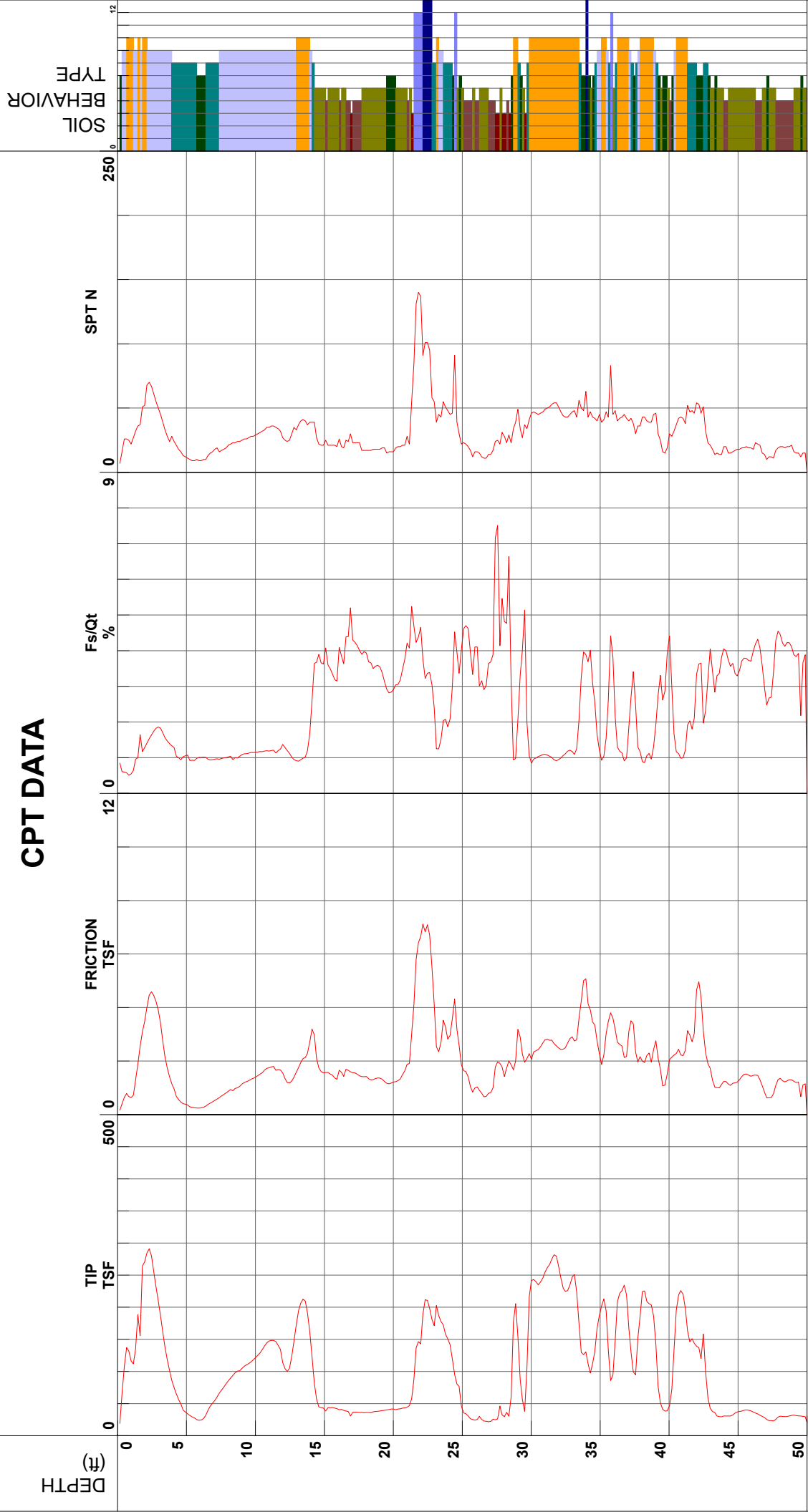
Cone Size 15cm squared



Quantum Geotechnical, Inc

Project	Honey Lane	Operator	AJ-OO	Filename	SDF(523).cpt
Job Number	H020.G	Cone Number	DDG1587	GPS	
Hole Number	CPT-05	Date and Time	4/23/2021 1:41:32 PM	Maximum Depth	50.36 ft
EST GW Depth During Test			18.00 ft		

Net Area Ratio .8



- 1 - sensitive fine grained
- 2 - organic material
- 3 - clay
- 4 - silty clay to clay
- 5 - clayey silt to silty clay
- 6 - sandy silt to clayey silt
- 7 - silty sand to sandy silt
- 8 - sand to silty sand
- 9 - sand
- 10 - gravelly sand to sand
- 11 - very stiff fine grained (*)
- 12 - sand to clayey sand (*)

Cone Size 15cm squared

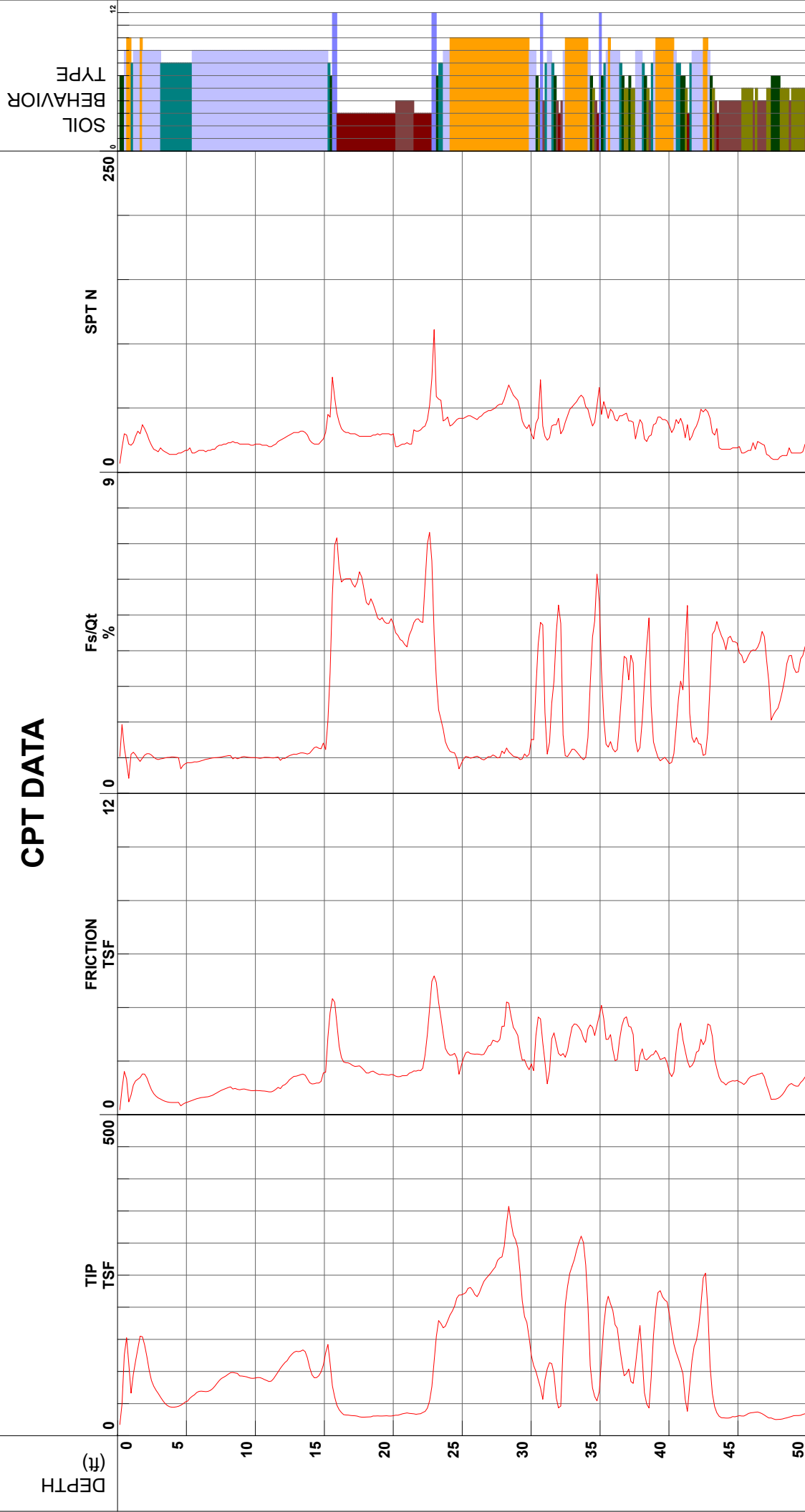
S*Soil behavior type and SPT based on data from UBC-1983



Quantum Geotechnical, Inc

Project	Honey Lane	Operator	AJ-OO	Filename	SDF(524).cpt
Job Number	H020.G	Cone Number	DDG1587	GPS	
Hole Number	CPT-06	Date and Time	4/23/2021 2:45:24 PM	Maximum Depth	50.52 ft
EST GW Depth During Test	18.00 ft				

Net Area Ratio .8



S*Soil behavior type and SPT based on data from UBC-1983

Cone Size 15cm squared

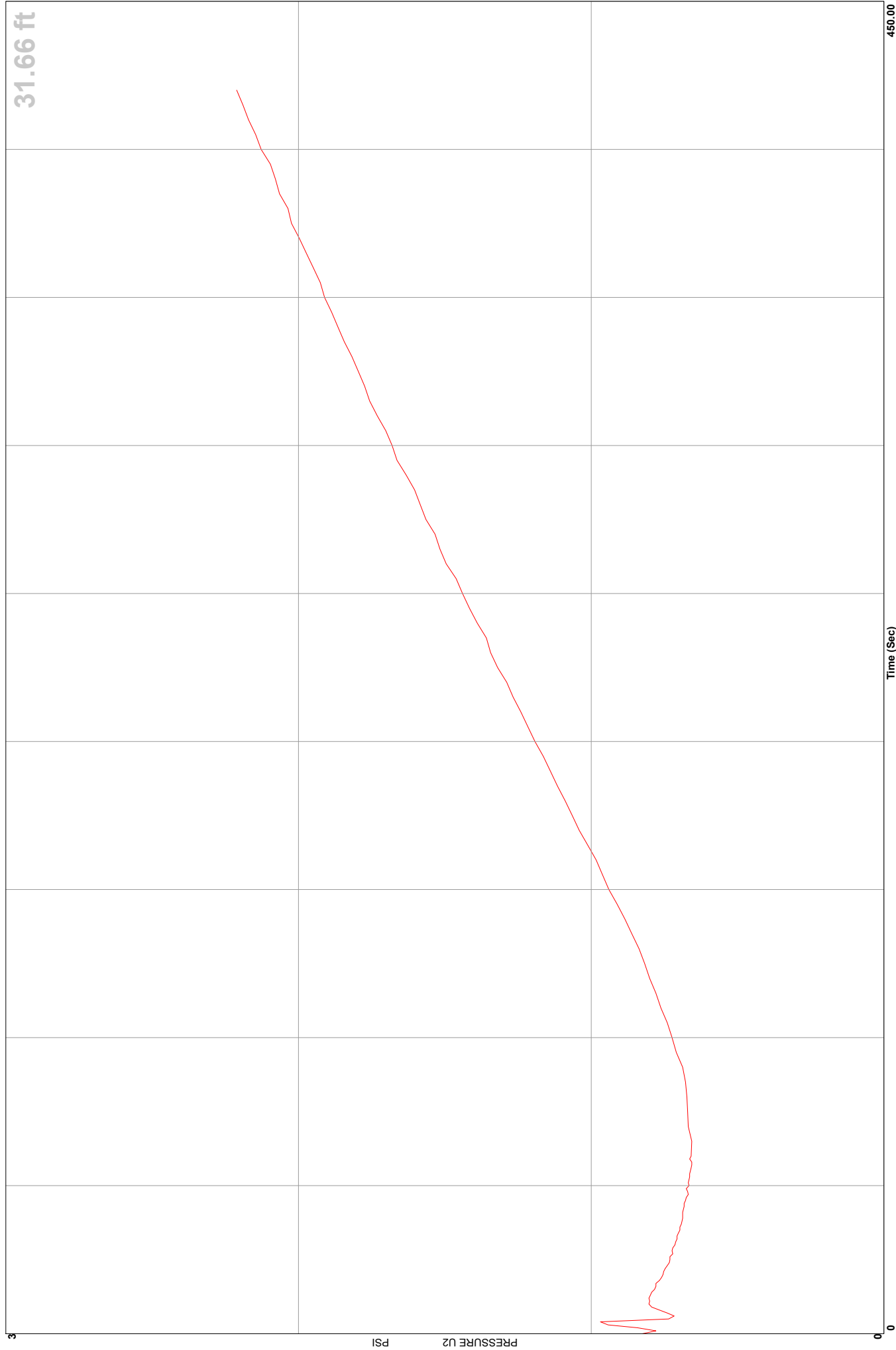


Quantum Geotechnical, Inc

Location Honey Lane
 Job Number H020.G
 Hole Number CPT-06
 Equilized Pressure 2.2

Operator AJ-OO
 Cone Number DDG1587
 Date and Time 4/23/2021 2:45:24 PM
 EST GW Depth During Test 26.5

GPS



Appendix B

The Grading Specification

Guide Specifications for Rock Under Floor Slabs

THE GRADING SPECIFICATIONS
on
Proposed Residential Subdivision
463 and 560 Honey Lane
Oakley, California

1. General Description

1.1 These specifications have been prepared for the grading and site development of the subject residential development. *Quantum Geotechnical Inc.*, hereinafter described as the Soil Engineer, should be consulted prior to any site work connected with site development to ensure compliance with these specifications.

1.2 The Soil Engineer should be notified at least two working days prior to any site clearing or grading operations on the property in order to observe the stripping of organically contaminated material and to coordinate the work with the grading contractor in the field.

1.3 This item shall consist of all clearing or grubbing, preparation of land to be filled, filling of the land, spreading, compaction and control of fill, and all subsidiary work necessary to complete the grading of the filled areas to conform with the lines, grades, and slopes as shown on the accepted plans. The Soil Engineer is not responsible for determining line, grade elevations, or slope gradients. The property owner, or his representative, shall designate the person or organizations who will be responsible for these items of work.

1.4 The contents of these specifications shall be integrated with the soil report of which they are a part; therefore, they shall not be used as a self-contained document.

2. Tests

The standard test used to define maximum densities of all compaction work shall be the ASTM D1557-12 Laboratory Test Procedure. All densities shall be expressed as a relative compaction in terms of the maximum dry density obtained in the laboratory by the foregoing standard procedure.

3. Clearing, Grubbing, and Preparing Areas To Be Filled

3.1 If encountered, all vegetable matter, trees, root systems, shrubs, debris, and organic topsoil shall be removed from all structural areas and areas to receive fill.

3.2 If encountered, any soil deemed soft or unsuitable by the Soil Engineer shall be removed. Any existing debris or excessively wet soils shall be excavated and removed as required by the Soil Engineer during grading.

3.3 All underground structures shall be removed from the site such as old foundations, abandoned pipe lines, septic tanks, and leach fields.

3.4 The final stripped excavation shall be approved by the Soil Engineer during construction and before further grading is started.

3.5 After the site has been cleared, stripped, excavated to the surface designated to receive fill, and scarified, it shall be disked or bladed until it is uniform and free from large clods. The native subgrade soils shall be moisture conditioned and compacted to the requirements as specified in the grading section of this report. Fill can then be placed to provide the desired finished grades. The contractor shall obtain the Soil Engineer's approval of subgrade compaction before any fill is placed.

4. Materials

4.1 All fill material shall be approved by the Soil Engineer. The material shall be a soil or soil-rock mixture which is free from organic matter or other deleterious substances. The fill material shall not contain rocks or lumps over 6 inches in greatest dimension and not more than 15% larger than 2-1/2 inches. Materials from the site below the stripping depth are suitable for use in fills provided the above requirements are met.

4.2 Materials existing on the site are suitable for use as compacted engineered fill after the removal of all debris and organic material. All fill soils shall be approved by the Soil Engineer in the field.

4.3 Should import material be required, it should be approved by the soil Engineer before it is brought to the site.

5. Placing, Spreading, and Compacting Fill Material

5.1 The fill materials shall be placed in uniform lifts of not more than 8 inches in uncompacted thickness. Each layer shall be spread evenly and shall be thoroughly blade mixed during the spreading to obtain uniformity of material in each layer. Before compaction begins, the fill shall be brought to a water content that will permit proper compaction by either (a) aerating the material if it is too wet, or (b) spraying the material with water if it is too dry.

5.2 After each layer has been placed, mixed, and spread evenly, either import material or native material shall be compacted to a relative compaction designated for engineered fill.

5.3 Compaction shall be by footed rollers or other types of acceptable compacting rollers. Rollers shall be of such design that they will be able to compact the fill to the specified density. Rolling shall be accomplished while the fill material is within the specified moisture content range. Rolling of each layer shall be continuous over its entire area and the roller shall make sufficient trips to ensure that the required density has been obtained. No ponding or jetting shall be permitted.

5.4 Field density tests shall be made in each compacted layer by the Soil Engineer in accordance with Laboratory Test Procedure ASTM D1556-15 or D6938-10. When footed rollers are used for compaction, the density tests shall be taken in the compacted material below the surface disturbed by the roller. When these tests indicate that the compaction requirements on any layer of fill, or portion thereof, has not been met, the particular layer, or portion thereof, shall be reworked until the compaction requirements have been met.

5.5 No soil shall be placed or compacted during periods of rain nor on ground which contains free water. Soil which 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 limits hereinbefore described or

approved by the Soil Engineer. Approval by the Soil Engineer shall be obtained prior to continuing the grading operations.

6. Pavement

6.1 The proposed subgrade under pavement sections, native soil, and/or fill shall be compacted to a minimum relative compaction of 95% at 2% above optimum moisture content for a depth of 12 inches.

6.2 All aggregate base material placed subsequently should also be compacted to a minimum relative compaction of 95% based on the ASTM Test Procedure D1557-12. The construction of the pavement in the parking and traffic areas should conform to the requirements set forth by the latest Standard Specifications of the Department of Transportation of the State of California and/or City of Oakley, Department of Public Works.

6.3 It is recommended that soils at the proposed subgrade level be tested for a pavement design after the preliminary grading is completed and the soils at the site design subgrade levels are known.

7. Utility Trench Backfill

7.1 The utility trenches extending under concrete slabs-on-grade shall be backfilled with native on-site soils or approved import materials and compacted to the requirements pertaining to the adjacent soil. No ponding or jetting will be permitted.

7.2 Utility trenches extending under all pavement areas shall be backfilled with native or approved import material and properly compacted to meet the requirements set forth by the City of Oakley, Department of Public Works.*

7.3 Where any opening is made under or through the perimeter foundations for such items as utility lines and trenches, the openings must be resealed so that they are watertight to prevent the possible entrance of outside irrigation or rain water into the underneath portion of the structures.

8. Subsurface Line Removal

8.1 The methods of removal will be designated by the Soil Engineer in the field depending on the depth and location of the line. One of the following methods will be used.

8.2 Remove the pipe and fill and compact the soil in the trench according to the applicable portions of sections pertaining to compaction and utility backfill.

8.3 The pipe shall be crushed in the trench. The trench shall then be filled and compacted according to the applicable portions of Section 5.

8.4 Cap the ends of the line with concrete to prevent entrance of water. The length of the cap shall not be less than 5 feet. The concrete mix shall have a minimum shrinkage.

9. Unusual Conditions

9.1 In the event that any unusual conditions not covered by the special provisions are encountered during the grading operations, the Soil Engineer shall be immediately notified for additional recommendations.

10. General Requirements**Dust Control**

10.1 The contractor shall conduct all grading operations in such a manner as to preclude windblown dirt and dust and related damage to neighboring properties. The means of dust control shall be left to the discretion of the contractor and he shall assume liability for claims related to windblown material.

GUIDE SPECIFICATIONS FOR ROCK UNDER FLOOR SLABS

Definition

Graded gravel or crushed rock for use under slabs-on-grade shall consist of a minimum thickness of mineral aggregate placed in accordance with these specifications and in conformance with the dimensions shown on the plans. The minimum thickness is specified in the accompanying report.

Material

The mineral aggregate shall consist of broken stone, crushed or uncrushed gravel, quarry waste, or a combination thereof. The aggregate shall be free from deleterious substances. It shall be of such quality that the absorption of water in a saturated dry condition does not exceed 3% of the oven dry weight of the sample.

Gradation

The mineral aggregate shall be of such size that the percentage composition by dry weight, as determined by laboratory sieves (U.S. Sieves) will conform to the following gradation:

<u>Sieve Size</u>	<u>Percentage Passing</u>
$\frac{3}{4}$ "	90-100
No. 4	25-60
No. 8	18-45
No. 200	0-3

Placing

Subgrade, upon which gravel or crushed rock is to be placed, shall be prepared as outlined in the accompanying soil report.

Appendix F
Phase I and Phase II Environmental Site Assessments



PHASE I AND PHASE II ENVIRONMENTAL SITE ASSESSMENTS

On

Proposed Residential Development – 10.605 Acres

463 and 560 Honey Lane

Oakley, California 94561

For

NUVERA HOMES

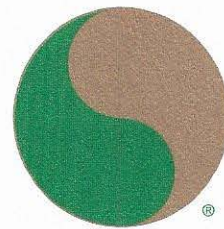
by

GeoSolve, Inc.

Project No. 2021-03

March 29, 2021





Project No. 2021-03
March 29, 2021

Mr. Jeff Lawrence
Vice President
Nuvera Homes
7041 Koll Center Parkway, Suite 130
Pleasanton, California 94566

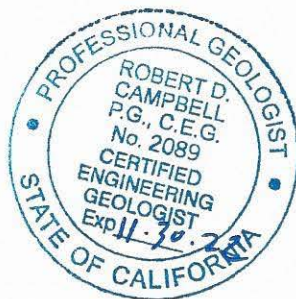
Subject: Proposed Residential Development – 10.605 Acres
APNs 033-030-028-6 and 033-030-032-8
463 and 560 Honey Lane
Oakley, California 94561
PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS

Dear Mr. Lawrence:

At your request, *GeoSolve, Inc.* has conducted a Phase I Environmental Site Assessment (ESA) for the above referenced site. The following is a copy of the report, which presents the results of our assessment according to ASTM E1527-2013 standard. In addition, *GeoSolve, Inc.* has included the Phase II ESA for the above reference site in Section 8.0 of this report.

Should you have any questions relating to the contents of this report or require any additional information, please contact our office at your convenience.

Sincerely,
GeoSolve, Inc.



Robert D. Campbell, M.S., P.G., C.E.G., Q.S.D.
Principal Engineering Geologist

Copies: 1 to Nuvera Homes



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ATTACHMENTS

Site Vicinity Map, Figure 1
 Site Plan, Figure 2
 Soil Sample Locations, Figure 3
 Site Photographs 1A through 4B
 EDR Historical Reports
 Environmental Data Resources, Inc. (EDR) Report
 BC Laboratories Analytical Report and Chain-of-Custody Document



PHASE I ENVIRONMENTAL SITE ASSESSMENT

1.0 INTRODUCTION

1.1 Objective

The purpose of conducting this Phase I Environmental Site Assessment (ESA) is to evaluate the property for contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) 42 U.S.C. §9601 and petroleum products, also known as Recognized Environmental Concerns (RECs). As such, this Phase I ESA is intended to permit a user to satisfy one of the requirements to quality for the innocent landowner, continuous landowner, or bona fide prospective purchaser limitations on CERCLA liability or known as “landowner liability protections” through conducting All Appropriate Inquiries (AAI) into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B). *GeoSolve, Inc.* has conducted detailed assessment of the past use of the property, historical research, site visit, file reviews and/or file searches and interviews with the site managers/property owners as summarized in this Phase I ESA, which complies with ASTM E1527-2013 for real for secondary potential contaminated sites within a 1-mile radius of the property.

The subject site consists of two parcels totaling approximately 10.605-acres of land located at 463 and 560 Honey Lane in Oakley, California with Assessor Parcel Numbers (APNs) 033-030-028-6 and 033-030-032-8.

This Phase I Environmental Site Assessment was prepared for the use of our client, Nuvera Homes, who can rely on this report for evaluating the environmental conditions of the property. If commencement of development of this property is not initiated by August 29, 2021, an Updated Phase I Environmental Site Assessment must be performed if Nuvera Homes, or another buyer plans to pursue future development of this property.

1.2 Scope

GeoSolve, Inc. was authorized by Nuvera Homes on March 1, 2021 to perform the following:

- a) Perform a field reconnaissance of the subject property for significant surficial signs of hazardous waste release, storage of hazardous materials, and surficial indications for the presence of USTs, and water wells;



- b) Off-site research into past land use of the property involving, as applicable, telephone and personal interviews with government personnel and the review of historical documents;
- c) A review of available aerial photographs for obvious surficial features indicative of past land use with attention to indicators of hazardous materials or waste use, disposal, or storage;
- d) An interview with the current property owner(s);
- e) A review of fuel leak and chemical release lists and files for soil and groundwater contamination cases within a 1-mile radius from the subject property as made available through the appropriate Federal and State and local regulatory agencies, if available;
- f) Documentation of the site with photographs; and
- g) Preparation of this report.

2.0 SITE LOCATION AND DESCRIPTION

2.1 Location

The subject property is situated within the greater San Francisco Bay Region within the eastern region of Contra Costa County. The property consists of two parcels located at 463 and 560 Honey Lane in Oakley, California. A residence and outbuilding occupy 463 Honey Lane, while 560 Honey Lane is vacant. The 463 Honey Lane property was bounded by a residential developments to the west and south, Salvador Lane to the east, and Honey Lane to the north. The 560 Honey Lane property was bounded by Honey Lane to the south, vacant land to the west and Marsh Creek to the east, and Creekside Park to the north. The property located at 463 Honey Lane is approximately 4.99 acres with Assessor Parcel Number (APN) 033-030-028-6 and the property located at 560 Honey Lane is approximately 5.615 acres with APN 033-030-032-8. The site vicinity map is shown on Figure 1 and the site plan is shown on Figure 2.

2.2 Topography and Drainage

The local topography is relatively flat at approximately 30 feet above mean sea level (msl), which gradually slopes to the northeast. March Creek is situated immediately east of the site and flows north. Drainage of the property appears to be to the northeast along topography.



2.3 Geology/Hydrogeology

The materials underlying the site are mapped as Holocene beach and dune sand deposits (Qhsc) by Helley and Lajoie (1979), which consist of loose well-sorted fine- to medium-grained sand. Includes some small deposits stabilized by vegetation. Mineral composition is variable and generally reflects local bedrock lithologies. Locally may contain lenses of gravel or clay rich in organic material. Some dune deposits contain aboriginal artifacts and kitchen middens. Thickness The thickness of beach sand varies seasonally. Dune sand thickness varies constantly but may locally exceed 25 feet. Probably initially formed about 5,000 years ago when sea level attained its present elevation. Origin of deposit Beach sand is generally derived locally by wave abrasion of sea cliffs and by stream erosion in adjacent hills. Wave action winnows silt and clay from rock debris supplied to the beaches and leaves a residuum of clean, well-sorted sand. Dune sand is derived from beaches by the wind (<https://pubs.usgs.gov/pp/0943/report.pdf>).

The active trace of the Concord Fault is situated approximately 10-miles west of the subject site, and is considered active according to the Alquist-Priolo Earthquake Fault Zones Act (1997), and is a strike-slip fault with right-lateral motion. The property is not located on a zone for liquefaction.

Based on a Regional Water Quality Control Board (RWQCB) closed Food and Liquor store located at Highway 4 and Cypress on Geotracker in 1995 located approximately 0.5-mile north (https://documents.geotracker.waterboards.ca.gov/regulators/deliverable_documents/6420992791/101W.pdf), depth to groundwater ranged from 12 feet to 15 feet below ground surface (bgs) and groundwater flows toward the northeast.

2.4 Site Visit

A *GeoSolve, Inc.* field geologist visited the site on Wednesday, March 10, 2021, and made the following observations:

- The site consists of two properties, one at 463 Honey Lane and a second across the street at 560 Honey Lane in Oakley, California. A residence with a small garage and out-shed were observed on the 463 Honey Lane property, while the 560 Honey Lane property north of the residence was vacant. The 463 Honey Lane property is approximately 4.99-acres in size and the 560 Honey Lane property is approximately 5.615-acres in size. Debris was observed next to the out-building east of the residence and a well was observed on the western-central portion of the 463 Honey Lane property. Access to these properties was via Honey Lane. Digital photos of the site are shown on Photos 1A through 4B.



- Due to the age of the structure, lead-based paint (LBP) and/or asbestos containing materials (ACMs) are not anticipated to be present within and/or on the structure.
- Old concrete pads and cattle fencing were observed on the southwestern and central portions of 560 Honey Lane. No evidence of hazardous wastes and/or substances were observed.
- No visual evidence of underground storage tanks (USTs), sumps, or pits were noted at the subject property. Drains were observed on site. No evidence of polychlorinated biphenyls (PCBs) was observed on the subject site. The United States Geological Survey (USGS) considers this a low exposure potential area for radon.

3.0 SITE HISTORY REVIEW

GeoSolve, Inc. examined fourteen (14) aerial photographs, and eight (8) historical topographic maps. Sanborn Maps were not available for the site. All historical information was provided by Environmental Data Resources, Inc (EDR). Data for the photographs and topographic maps are tabulated below:

AERIAL PHOTOGRAPHS EXAMINED		
<u>Flight Date</u>	<u>Approximate Scale</u>	<u>Identification Number</u>
1939	1:6000	USDA – 6371926.11
1949	1:6000	USGS – 6371926.11
1958	1:6000	USDA – 6371926.11
1963	1:6000	EDR Proprietary – 6371926.11
1966	1:6000	USDA – 6371926.11
1979	1:6000	USDA – 6371926.11
1982	1:6000	USDA – 6371926.11
1984	1:6000	USDA – 6371926.11
1993	1:6000	USGS/DOQQ – 6371926.11
1998	1:6000	USDA – 6371926.11
2006	1:6000	USDA/NAIP – 6371926.11
2009	1:6000	USDA/NAIP – 6364260.11
2012	1:6000	USDA/NAIP – 6364260.11
2016	1:6000	USDA/NAIP – 6364260.11



HISTORICAL TOPOGRAPHIC MAPS		
<u>Date</u>	<u>Scale</u>	<u>USGS Topographic Map</u>
1914	1:24000	7.5-Minute Brentwood Quadrangle
1916	1:62500	15-Minute Byron Quadrangle
1940	1:62500	15-Minute Byron Quadrangle
1943	1:62500	15-Minute Byron Quadrangle
1954	1:24000	7.5-Minute Brentwood Quadrangle
1968	1:24000	7.5-Minute Brentwood Quadrangle
1978	1:24000	7.5-Minute Brentwood Quadrangle
2012	1:24000	7.5-Minute Brentwood Quadrangle

3.1 Regional and Local History

Oakley is a city located in the county of Contra Costa, California, USA. This falls within the San Francisco Bay Area of nine counties. The population was 35,432 at the 2010 census. Oakley was incorporated into Contra Costa County in 1999 making it the newest incorporated city. Oakley is part of the East Contra Costa Bicycle Plan which includes existing facilities in Oakley as well as plans to expand further. The name "oak" comes from the abundance of oak trees, while the suffix "-ley" comes from the Old English word for "field" or "meadow".

3.11 Regional History

Archeologists identified prehistoric sites in the area of Oakley. In the early 20th century, one large shell mound was found near what is now the town's east side. The California Historical Resources Information System's Northwest Information Center keeps track of archeological research being carried out in Oakley. In the past 25 years, approximately three dozen such ventures have been completed, yielding just four prehistoric sites in town.

Attributed to the Bay Miwoks, who inhabited the area between 1100 and 1770 AD, are the first records of known cultural culture in the west delta. The Bay Miwok people, generally referred to by European explorers as the Julpunes or Pulpunes, were organized into "tribeletts"—political units that included many relatively permanent villages and a collection of seasonal campsites spread over a well-defined territory. In the 1770s, Spanish incursions into the Oakley area began. The De Anza expedition of 1775–76 was the first to reach what are now the city limits. Nevertheless, the De Anza expedition returned to Monterey after a failed effort to find a way across the tule swamps toward the Sierra. Subsequent Spanish expeditions did not contribute to colonization. In the 19th century, Europeans arrived in the Delta, but had been ravaged by malaria and smallpox.



3.12 Local History

The name Oakley is of Old English origin and its meaning is "meadow of oak trees". This accurately defines the area when it was first settled and even today, to some degree. The town may have been called Dewey if not for the flip of a coin and cribbage board. It could have been a dewdrop instead of the Oak Leaf emblem. Randolph Marsch, the city's founder, decided to name Dewey, after Admiral Dewey. During the Spanish – American War, Mr. Marsh was impressed by Admiral Dewey 's exploits at the Battle of Manila Bay. His brother J.T. Whightman chose the name "Oakley," as the property was mostly meadows and oaks. They fought over a cribbage game to find out which name would prevail. Marsh may have lost the game and the right to name the town; however, Marsh ensured his immortality by choosing names of street centres: Main, Acme, Ruby, Star and Home, the first initials were spelled as "Marsh." Oakley founded its first post office in 1898, and only 101 years later in 1999, Oakley became an integrated city. The motto of the town is, "A Place for Families in the Heart of the Delta."

The vineyards are still in Oakley; most have been here since the end of the 1800s. Early Portuguese and Italian immigrants encountered a Mediterranean climate that they left behind and planted thousands of acres of vineyards. Some of California's oldest, over 100-year-old, and rarest grapevines continue to be produced here in Oakley. For Zinfandel, a variety of red wine grapes, almost 80% of Oakley 's approximately 700 hectares is planted. Other grape varieties in Oakley include: Mourvèdre, a red grape used to produce both solid, dark red and rosé wines; Carignane, another red grape, is one of the most commonly available grapes in the world. Such three varieties also make up much of the ancient vines of Oakley (aged 80 – 120).

3.2 Aerial Photographic Site Features

Historical aerial photographs revealed several changes occurring at the subject property over the past 82 years. In 1939, the subject site was occupied by orchards. Marsh Creek was observed immediately east of the site and no roads were observed by either property. No significant changes to the properties were observed in 1949, 1958, or in 1963. Honey Lane was observed as a dirt road in 1963 and the properties were still orchards with no structures. By 1966, 463 Honey Lane was occupied by orchards, while 560 Honey Lane was vacant with no orchards. By 1979, no orchards were observed on 463 Honey Lane and a residence was observed on 560 Honey Lane, near the southwestern portion of the property. No changes were observed on the site in 1982, except Honey Lane was constructed to current conditions, and by 1984, the residence at 560 Honey Lane was not observed. By 1993, the residence at 463 Honey Lane was observed and no significant changes on the properties were observed through 2016. Increased development was observed in the surrounding area. Copies of the aerial photographs are attached to the appendix.



3.3 Historical Topographic Map Site Features

In 1914, the subject properties were vacant land and a dirt road, where current Honey Lane is located, was mapped. No changes on the properties were mapped in 1916. By 1940 and 1954, orchards were mapped occupying the properties. By 1966 through 1978, the property was mapped as vacant land, with no orchards. By 2012, the current condition of the properties was mapped. Copies of the historical topographic maps are attached to the appendix.

3.4 Review of Environmental LienSearch™ Report

The property is owned as a Deed and the title is vested in Angela J Angeles and was received from Trinidad C & Angela J Angeles on August 20, 2020 and was recorded on September 3, 2020 under instrument number 2020-0186911-00. No environmental liens or other activity and use limitations were documented for the parcels. A copy of the EDR Environmental LienSearch™ Report is attached to the appendix.

3.5 Sanborn Map Review

Sanborn map coverage was not available for these properties.

3.6 Review of EDR City Directory Abstract

No information was available from 1920 through 1980. The following listings were recorded for occupants at the subject property in the table below and a copy of the EDR City Directory Abstract is attached to the appendix. No listing was available for 560 Honey Lane.

Date	Address	Occupant
1985	NA	NA
1990	NA	NA
1994	NA	NA
2000	463 Honey Lane	Samuel Lopez
2005	463 Honey Lane	Trinidad Angeles
2010	NA	NA
2014	463 Honey Lane	Miller Chiropractic
2017	463 Honey Lane	Roch Haury



3.7 EDR Vapor Encroachment Screen

EDR performed a Vapor Encroachment Screen report for the subject site. Based on the data, no sources of vapor intrusion were documented near or beneath the site. A copy of the EDR Vapor Encroachment Screen report is attached to the appendix.

3.8 Review of City and County Records

GeoSolve, Inc. contacted the City of Oakley Building and Planning Departments to ascertain the past use of the property. According to the City of Oakley, the residence located at 463 Honey Lane was constructed in 1987 and final occupancy permits were finalized in early 1988. The home is serviced by Ironhouse Sanitary District for sewer and Diablo Water District provides water for this residence. A well was observed on the western-central portion of the property. The residence is 1,328 square feet (s.f.) in area, with a garage with 456 s.f. in area. In addition, *GeoSolve, Inc.* contacted the Contra Costa County Assessor's Office to ascertain the value of the property. According to the Contra Costa County Assessor's Office, the property has an assessed value of \$254,778 in 2020 with APN 033-030-028-6 and occupies approximately 4.99-acres. The property at 560 Honey Lane has an assessed value of \$107,385 in 2020 with APN 033-030-032-8 (<https://www.contracosta.ca.gov/552/Maps-Property-Information>(<https://www.contracosta.ca.gov/552/Maps-Property-Information>)). The parcel map is attached to the appendix.

3.9 Review of Previous Environmental Reports

No previous environmental reports were identified for the subject site during the course of performing this Phase I ESA.

3.10 Interviews with Property Owner

GeoSolve, Inc. contacted the current property owner during our site visit. According to the current owner, no USTs or wells are situated on the property. He is unaware of any adverse environmental conditions on the property and all wastes are disposed properly by removal and recycling.



4.0 REVIEW OF PUBLIC RECORDS OF REGULATORY AGENCIES

4.1 Primary Contamination Sources

GeoSolve, Inc. conducted a review of files at City of Oakley Fire Department (OFD), Contra Costa County Health Services Agency (CCCHSA), and the California Regional Water Quality Control Board – Region 2 (RWQCB) using the Geotracker website to ascertain property information for the site. No documents relating to hazardous wastes and/or generation of waste were located at CCCHSA (<https://cchealth.org/hazmat/>). According to the RWQCB, no SLIC files were associated with the subject site (<https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=463+honey+lane>).

GeoSolve, Inc. also contacted the California Department of Toxic Substances and Control (DTSC) to ascertain if any files documenting the presence of hazardous wastes and/or hazardous substances were available for the subject site. No SLIC files were identified (<https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=463+honey+lane%2C+oakely%2C+ca>).

The following is a summary of the potential Hazardous Substances in connection with identified uses:

ACMs and/or LBP

GeoSolve, Inc. conducted a walk-through and visually observed the exteriors of the structures located the subject site. Since the structures were built in 1987, no lead-based paint (LBP) and/or asbestos containing materials (ACMs) are on and/or within the structures.

Radon Gas

According to the EDR Radius Report, the Federal EPA Radon Zone for Contra Costa County is 2 and based on that the indoor radon average level is < 2 pCi/L. Radon gas levels exceeding 4 pCi/L within residential buildings is considered by the EPA to be inhabitable without radon gas mitigation.

Facility Storage Tanks (above or below ground)

No above-ground storage tanks (ASTs) or underground storage tanks (USTs) were documents and/or observed on the site.



Transformers or Other Electrical Equipment that uses Dielectric Fluid

No transformers were observed on and/or near the property.

Remediation and Site Closures

There are no site closures and/or remediation activities associated with the subject site.

4.2 Secondary Contamination Source Sites

For the purposes of this investigation, a search was made of 123 State and Federal regulatory agency lists of contaminated or potentially contaminated sites, or properties where transportation, handling, storage, and/or disposal of hazardous materials occurs or has occurred.

In accordance with recently adopted standards by the American Standard for Testing and Materials (ASTM, 2013), details of the 123 databases which were searched are within the attached EDR, Inc. Report. It should be noted that listings reported without location data were found to be more distant than the standard minimum search distance. In addition, some of the databases consist of lists of handlers, transporters, and generators of toxic materials rather than contaminated sites.

Out of all databases searched, one (1) secondary potential sites were identified within a 0.13-mile radius of the subject site, which are as follows:

- **Amador Subdivision 8504, Salvador Lane and Amador Court, Oakley** – this property is located immediately south of the 463 Honey Lane property. This facility was listed on the CIWQS for stormwater permitting, associated with the development of the residential development immediately south of the site. The permit expired on July 1, 2005.

One well was located approximately 0.13-mile west of the properties and was drilled to approximately 380 feet. No information on depth to water was available. No oil-gas wells were mapped within a 0.13-mile radius of the property. Based on EDR report dated February 18, 2021, the subject property is not situated on a FEMA 100- or 500-year flood zone. No Coal Gas site was found in a search of Real Property Scan's ENVIROHAZ database.



5.0 DATA GAPS

The following Data Gap was recognized:

- Four (4) “orphaned sites” were not mapped for the database report. This data gap was filled by reviewing the location of the streets or by physically driving the neighborhood of the subject property to confirm that these orphaned sites were outside the search radius.

This data gap did not alter our findings and/or recommendations for the site.

6.0 SUMMARY OF FINDINGS

GeoSolve, Inc. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-2013 at 463 Honey Lane and 560 Honey Lane in Oakley, California with APNs 033-030-028-6 and 033-030-032-8817-04-045 in Contra Costa County, California, the property. Any exceptions to, or deletions from, this practice are described in Section 5.0 of this report. This assessment has revealed two (2) Recognized Environmental Conditions (RECs) associated with the site: 1) potential pesticides in shallow soil from old orchards; and 2) Lead around older residence located at 463 Honey Lane.

The following summarizes the assessment of the subject site:

- The subject property is situated within the greater San Francisco Bay Region within the eastern region of Contra Costa County. The property consists of two parcels located at 463 and 560 Honey Lane in Oakley, California. A residence and outbuilding occupy 463 Honey Lane, while 560 Honey Lane is vacant. The 463 Honey Lane property was bounded by residential developments to the west and south, Salvador Lane to the east, and Honey Lane to the north. The 560 Honey Lane property was bounded by Honey Lane to the south, vacant land to the west and Marsh Creek to the east, and Creekside Park to the north. The property located at 463 Honey Lane is approximately 4.99 acres with Assessor Parcel Number (APN) 033-030-028-6 and the property located at 560 Honey Lane is approximately 5.615 acres with APN 033-030-032-8. The local topography is relatively flat at approximately 30 feet above msl.
- Based on site observations, review of historical aerial photographs and topographic maps, and file review information, the property was formerly utilized as an orchard prior to 1939 until the late 1960s. A residence was constructed on the 560 Honey Lane property in the late 1970s and was demolished by 1984. A residence was constructed on the 463 Honey Lane property



in 1987, which is serviced by Ironhouse Sanitary District and Diablo Water District. A well was observed on the western-central portion of the property at 463 Honey Lane.

- Due to the recent construction of the residence at 463 Honey Lane, LBP and/or ACMs are most likely not present on and/or within the structure. Due to the former use of the properties as an orchard, organochlorine and arsenic pesticide residues may be present within the surficial soil.
- RECs for the subject site include the following: 1) potential pesticides in shallow soil from old orchards; and 2) Lead around older residence located at 463 Honey Lane.
- Based on EDR information dated February 18, 2021, one secondary potential site was identified within a 0.13-mile radius of the subject property, which included a terminated stormwater permit for the residential development south of the site.

7.0 SITE-SPECIFIC RECOMMENDATIONS

In view of the above findings, it is the opinion of *GeoSolve, Inc.* additional environmental assessment of the subject property is **warranted**, and should include the following:

- Conduct a Phase II ESA regarding evaluating organochlorine and arsenic pesticide residues in the surficial soil by collecting 20 soil samples, and four background metal samples from both properties (10 soil samples on each property); and collect three (3) soil samples from around the residence. The 20 soil samples should be analyzed for organochlorine pesticides and arsenic using Environmental Protection Agency (EPA) Methods SW846/8080 and 6010B. The three soil samples collected around the residence should be analyzed for lead using EPA Method 6010B.
- Proper destruction of the well at the 463 Honey Lane property should be completed through the CCCHSA.



8.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT

This Phase II ESA was performed in accordance with the *Interim Guidance for Sampling Agricultural Properties (Third Revision) California Department of Toxic Substances Control (DTSC) dated August 7, 2008*.

8.1 Field Activities

On March 10, 2021, a *GeoSolve, Inc.* field geologist visited the subject site to randomly collect twenty (20) surficial soil samples (S-1 through S-20) using a clean hand-auger from approximately 0.5-foot bgs using laboratory-supplied glass jars, which were sealed, labeled, and placed in a pre-chilled ice chest for temporary storage. In addition, four (4) arsenic background soil samples (AS-1 through AS-4) were collected from random locations using a clean hand-auger from approximately 3-feet bgs. The soil was placed within laboratory supplied glass jars, which were sealed, labeled, and placed in a pre-chilled ice chest for temporary storage. Finally, three (3) surficial soil samples (L-1 through L-3) were randomly collected around the residence using laboratory-supplied glass jars, which were sealed, labeled, and placed in a pre-chilled ice chest for temporary storage. The location of the soil samples is shown on Figure 3.

8.2 Laboratory Methods and Results

The soil samples were delivered under chain-of-custody documentation to BC Laboratories, Inc., a State-certified hazardous waste testing laboratory (Certification No. 1186) in Bakersfield, California, for analysis. Soil samples S-1 through S-20 were analyzed for total organochlorine pesticides and arsenic using Environmental Protection Agency (EPA) Methods SW846/8080 and 6010B. Samples AS-1 through AS-4 and L-1 through L-3 were analyzed for arsenic and lead using EPA Method 6010B. The results of the soil samples are shown on Table 1 below.



Table 1
Laboratory Analysis of Soil Samples
463 and 560 Honey Lane
Oakley, California
March 10, 2021

Sample ID	Depth (feet)	DDT (mg/Kg)	DDE (mg/Kg)	DDD (mg/Kg)	Toxaphene (mg/Kg)	Arsenic (mg/Kg)	Lead (mg/Kg)
S-1	0.5	0.0019	0.0031	<0.0005	<0.050	3.0	NA
S-2	0.5	0.0039	0.0063	<0.005	<0.050	1.7	NA
S-3	0.5	0.0019	0.0025	0.0002	<0.050	1.9	NA
S-4	0.5	0.00017	<0.0005	<0.0005	<0.050	2.0	NA
S-5	0.5	0.0013	0.0019	0.00022	0.042	5.2	NA
S-6	0.5	0.0038	0.0049	0.00042	0.037	3.6	NA
S-6	0.5	0.0038	0.0049	0.00042	0.037	3.6	NA
S-7	0.5	0.0013	0.0016	<0.0005	0.044	2.4	NA
S-8	0.5	0.0012	0.0020	0.00017	0.031	4.6	NA
S-9	0.5	0.0074	0.026	0.00077	0.12	3.3	NA
S-10	0.5	0.0011	0.0026	<0.0005	0.023	2.7	NA
S-11	0.5	0.0033	0.0068	0.00013	<0.050	2.2	NA
S-12	0.5	0.019	0.0032	<0.0005	<0.050	3.3	NA
S-13	0.5	0.011	0.036	0.0012	<0.050	2.3	NA
S-14	0.5	0.014	0.049	0.00043	<0.050	2.2	NA
S-15	0.5	0.0093	0.040	0.0010	<0.050	2.4	NA
S-16 ¹	0.5	0.0053	0.018	0.00058	0.046	2.4	NA
S-17	0.5	0.0058	0.023	0.00070	<0.050	2.6	NA
S-18	0.5	0.0054	0.025	0.00045	<0.050	2.2	NA
S-19	0.5	0.021	0.13	0.0024	<0.050	2.5	NA
S-20	0.5	0.00075	0.0010	0.0026	<0.050	4.0	NA
AS-1	3.0	NA	NA	NA	NA	3.8	NA
AS-2	3.0	NA	NA	NA	NA	3.6	NA
AS-3	3.0	NA	NA	NA	NA	3.3	NA
AS-4	3.0	NA	NA	NA	NA	2.3	NA
L-1	0.5	NA	NA	NA	NA	NA	7.0
L-2	0.5	NA	NA	NA	NA	NA	3.6
L-3	0.5	NA	NA	NA	NA	NA	7.9
<i>ESLs</i>	---	<i>1.9</i>	<i>1.8</i>	<i>2.7</i>	<i>0.51</i>	<i>0.067*</i>	<i>80</i>

mg/Kg = milligrams per kilogram (equivalent to parts per million [ppm])

< = less than laboratory detection limits (not detected)

NA = Not analyzed

¹ = Dieldrin was detected in sample S-16 at 0.00026 mg/Kg

* = Background levels are cleanup goals for arsenic, which are less than 10 ppm (Cal EPA)



8.3 Conclusions and Recommendations

Organochloride pesticides were mostly not detected; however, DDT, DDE, DDD, dieldrin, and toxaphene were either not detected (less than 0.0005 milligrams per kilogram [mg/Kg] to less than 0.050 mg/Kg) up to 0.12 mg/Kg for toxaphene. Similarly, lead was detected up to 7.9 mg/Kg. Arsenic was detected in all soil samples at concentrations ranging from 1.7 mg/Kg up to 4.0 mg/Kg in soil samples S-1 through S-10 and were within the order or magnitude of arsenic background soil samples AS-1 through AS-4, at concentrations up to 3.8 mg/Kg.

8.31 Potential Natural Arsenic Sources and Background Concentrations

Arsenic occurs in more than 200 minerals and is present mainly in the heavy-mineral fraction of soil as arsenate (As^{+5}) or the oxidized form of arsenic. Arsenic is naturally found in the arsenic-ore mineral arsenopyrite (FeAsS) and abundant concentrations of arsenic have been detected in the mineral's pyrite (up to 77,000 mg/Kg), marcasite (up to 126,000 mg/Kg), ferric oxyhydroxide and hematite (up to 77,000 mg/Kg) as trace elements (Campbell, 2006). Conversely, the lowest levels of arsenic are found in granitic sandy soils (Chang and et. al., 2004). Higher arsenic levels are associated with alluvial soils, rich in organic matter and soils derived from shales and hydrothermally altered bedrock, ancient hot-spring deposits (Campbell, 2006). Based on work conducted by Woolson et al. (1971), arsenic was found to accumulate in soils which had an appreciable amount of calcium, iron, and aluminum, especially in places where the reactive iron concentration of the soils was high.

The arsenic concentrations detected in all soil samples analyzed from both 463 Honey Lane and 560 Honey Lane are within background concentrations in the great Bay Area, which is below 10 mg/Kg.

Based on the no detectable to below the RWQCB's Environmental Screening Levels (ESLs) for DDT, DDE, DDD, dieldrin, toxaphene, and lead, and arsenic concentrations within background for the greater Bay Area, *GeoSolve, Inc.* recommends that further environmental assessment of the site is **not warranted**.

9.0 LIMITATIONS

This environmental site assessment was performed according to the recommended guidelines established by ASTM designation E1527-2013 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. This report has been prepared for



the specific application to this project in a manner consistent with the level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in this area. This report contains information reported to *GeoSolve, Inc.*, by other sources, accordingly, and errors or omissions may be present that *GeoSolve, Inc.* cannot be responsible for. The findings of this report apply to the present condition of the subject property only (as of March 10, 2021); the opinions expressed herein are subject to revision in light of new information relevant to the site and/or in its immediate surroundings. Results from Phase I environmental investigations are based on surficial evidence and public records and databases only. Subsurface conditions of the site cannot be rigorously evaluated without performing a subsurface environmental investigation and actually testing of the soil, and groundwater for potential contaminants.

10.0 INFORMATION SOURCES

ASTM, November 2013. *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*: ASTM Standards E1527-2013.

Campbell, R.D., March 2006. *Evaluation of Arsenic Levels and Speciation in Groundwater within Pleasanton, California, California State University East, Bay M.S. Geology Thesis, 165 pp.*

Chang, Andrew C., Page, Albert L. and Krage, Natalie J., November 2004. *Role of Fertilizer and Micronutrient Applications on Arsenic, Cadmium and Lead Accumulation in California Cropland Soils*, University of California at Riverside, Department of Environmental Sciences submitted to California Department of Food and Agriculture, 124 pages.

City of Oakley Building and Planning Departments.

City of Oakley Department.

Contra Costa County Health Services Department.

Environmental Data Resources (EDR) Radius Report dated February 18, 2021.

EDR Aerial Photography Decade Package dated February 18, 2021.

EDR Building Permit Report dated February 18, 2021.

EDR Environmental Lien and AUL Search Report dated February 19, 2021.



EDR Property Tax Map Report dated February 18, 2021.

EDR City Directory Image Report dated February 18, 2021.

EDR Sanborn Maps dated February 18, 2021.

EDR Historical Topographic Map Report dated February 18, 2021.

EDR Vapor Encroachment Screen Report dated February 18, 2021.

Helley, E.J and LaJoie, K.R. *Flatland Deposits of the San Francisco Bay Region, California – Their Geology and Engineering Properties and Their Importance to Comprehensive Planning*. Professional Paper 943, Plate 2.

Regional Water Quality Control Board – San Francisco Bay Region

United States Geological Survey, 15-Minute Byron Quadrangle Topographic Map dated 1914 and 1916, Scale 1:62500.

United States Geological Survey, 7.5-Minute Brentwood Topographic Maps dated 1954, 1968, 1978, and 2012, Scale 1:24000.

Online Documents/Resources

<https://pubs.usgs.gov/pp/0943/report.pdf>

https://documents.geotracker.waterboards.ca.gov/regulators/deliverable_documents/6420992791/101W.pdf

<https://www.contracosta.ca.gov/552/Maps-Property-Information>
(<https://www.contracosta.ca.gov/552/Maps-Property-Information>)

<https://cchealth.org/hazmat/>

<https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=463+honey+lane>

<https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=463+honey+lane%2C+oakely%2C+ca>



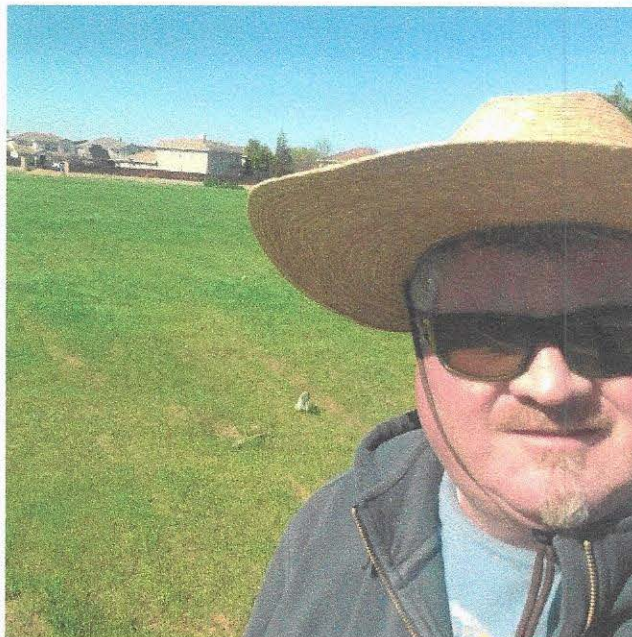
11.0 ENVIRONMENTAL PROFESSIONAL QUALIFICATION

This Phase I Environmental Site Assessment was performed by Mr. Robert D. Campbell, a qualified Environmental Professional as defined in 40 CFR Part 312.10.

Mr. Campbell holds a Baccalaureate degree from U.C. Davis (an accredited institution of higher education) and a Master of Science degree from C.S.U. East Bay (an accredited institution of higher education) in the discipline of Geology. Mr. Robert D. Campbell holds a valid Professional Geology license in the State of California (6454); a valid Certified Engineering Geology license in the State of California (2089); and a valid Professional Geology license in the State of Arizona.

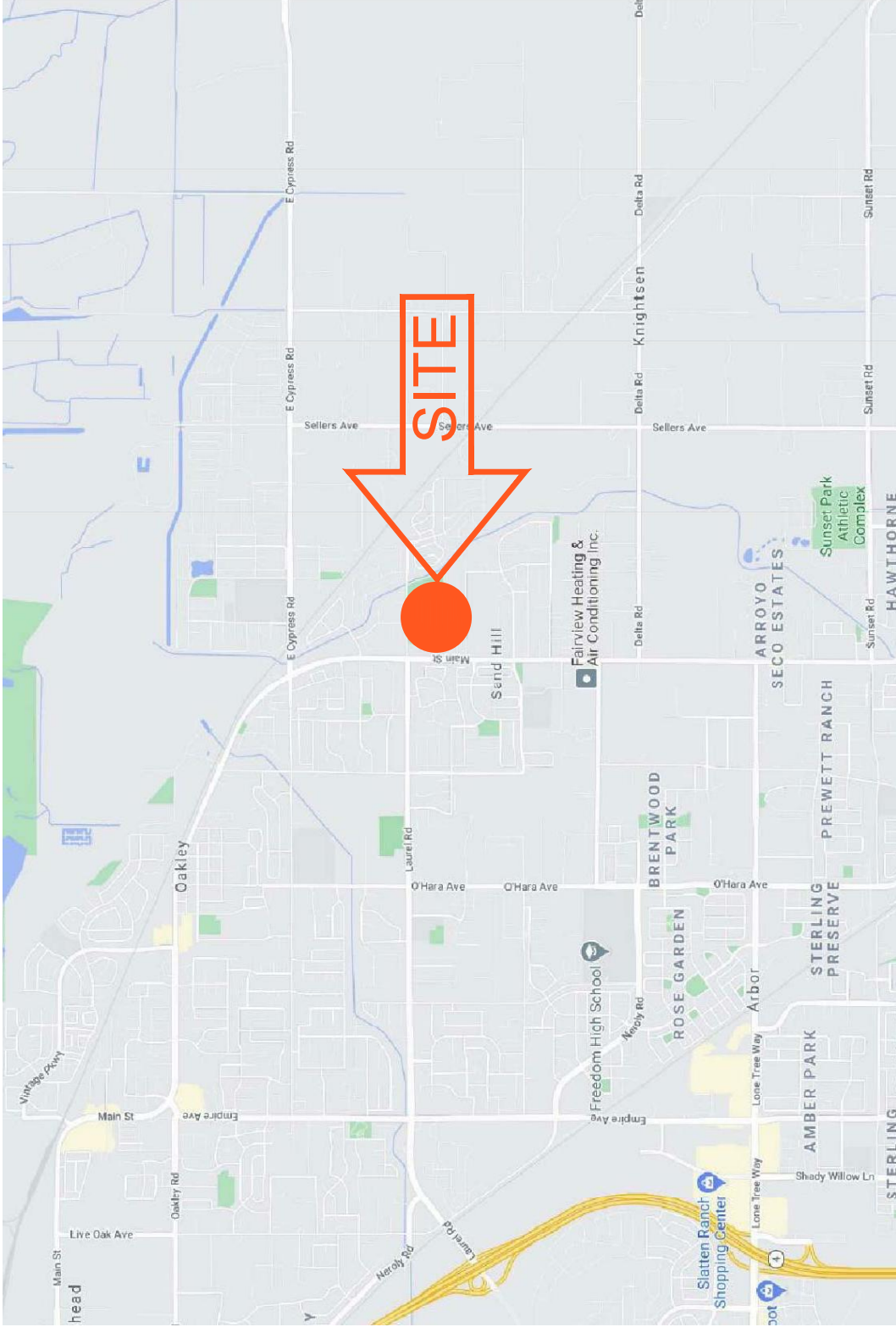
Mr. Campbell has over 30 years of environmental, geological, and hydrogeological experience, more specifically in environmental assessments including Phase I and Phase II Environmental Site Assessments (ESAs), which exceeds the regulatory requirement of three years of relevant experience.

Mr. Campbell remains current in his field and has received 1.6 Continuing Education Units (CEUs) and 12 Professional Development Hours (PDHs) in the previous 12-month period. He is also compliant with OSHA HAZWOPER 8-hour refresher requirements, including medical surveillance. As required in 40 CFR 312.27, Mr. Campbell directly conducted the Field Visit including the visual inspection of the Site, adjacent properties and surrounding areas on March 10, 2021 as shown below.



“All Appropriate Inquiry” was also conducted by Mr. Campbell as were all interviews. The record search, historical photo and topographic map search were conducted by EDR, Inc. The findings, opinions and recommendations of this Phase I Environmental Site Assessment are those of *GeoSolve, Inc.* as formulated by Mr. Robert D. Campbell.





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 Geoscience solutions rather than Status-Quo
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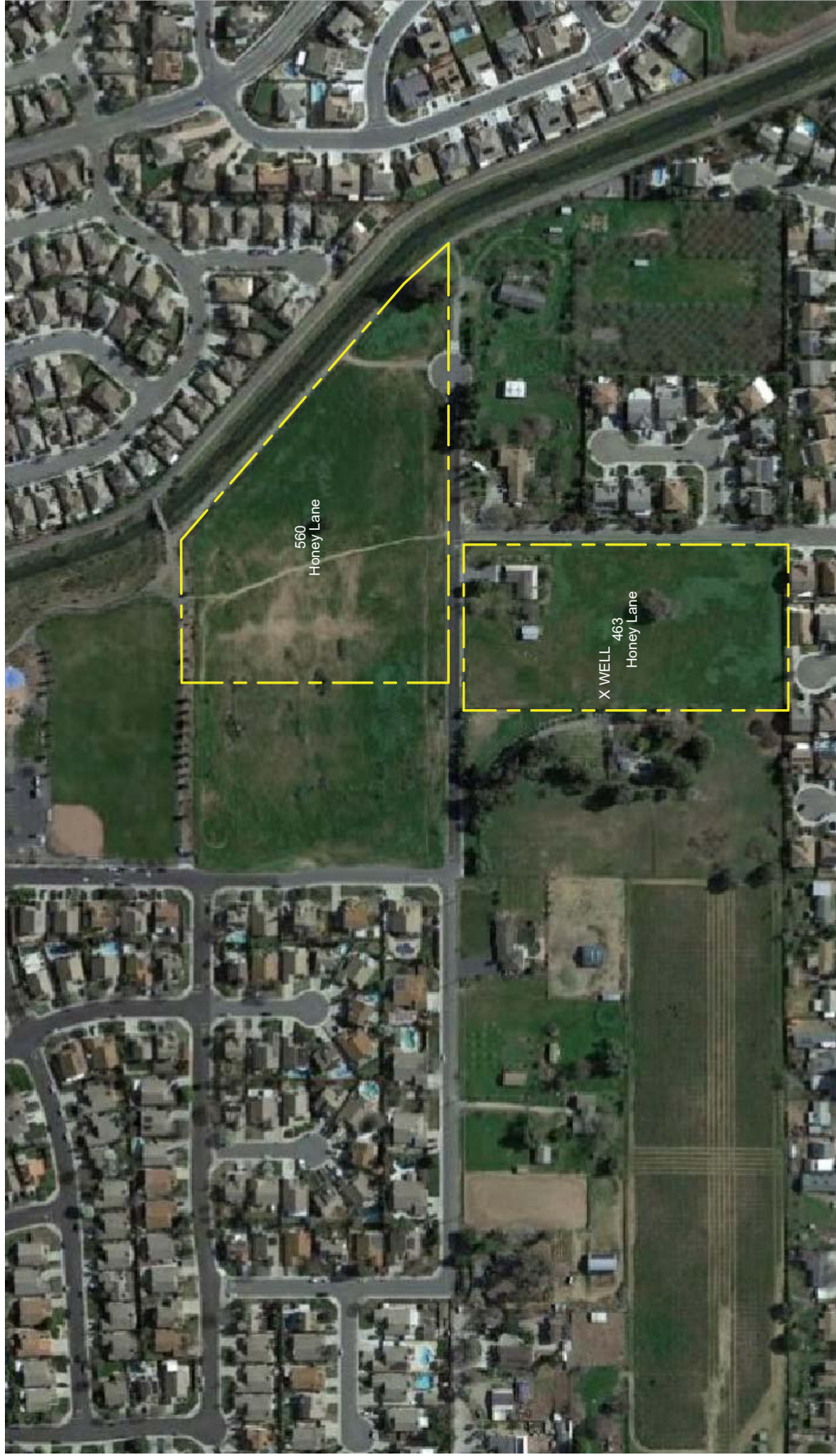
VICINITY MAP

**NUVERA HOMES
 PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS
 463 and 560 HONEY LANE
 OAKLEY, CALIFORNIA**

Project No.	2021-03	Drawn by:	GC
Scale:	NTS	Date:	03/2021

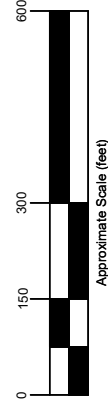
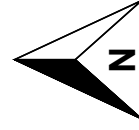
Figure No.

1



LEGEND

--- Site Property Line



GeoSolve, Inc.
 Geoscience solutions rather than Status-Quo
 Address: 1807 Santa Rita Rd, Suite D-165
 Pleasanton, California 94566

Visit us at www.geosolveinc.com

SITE PLAN

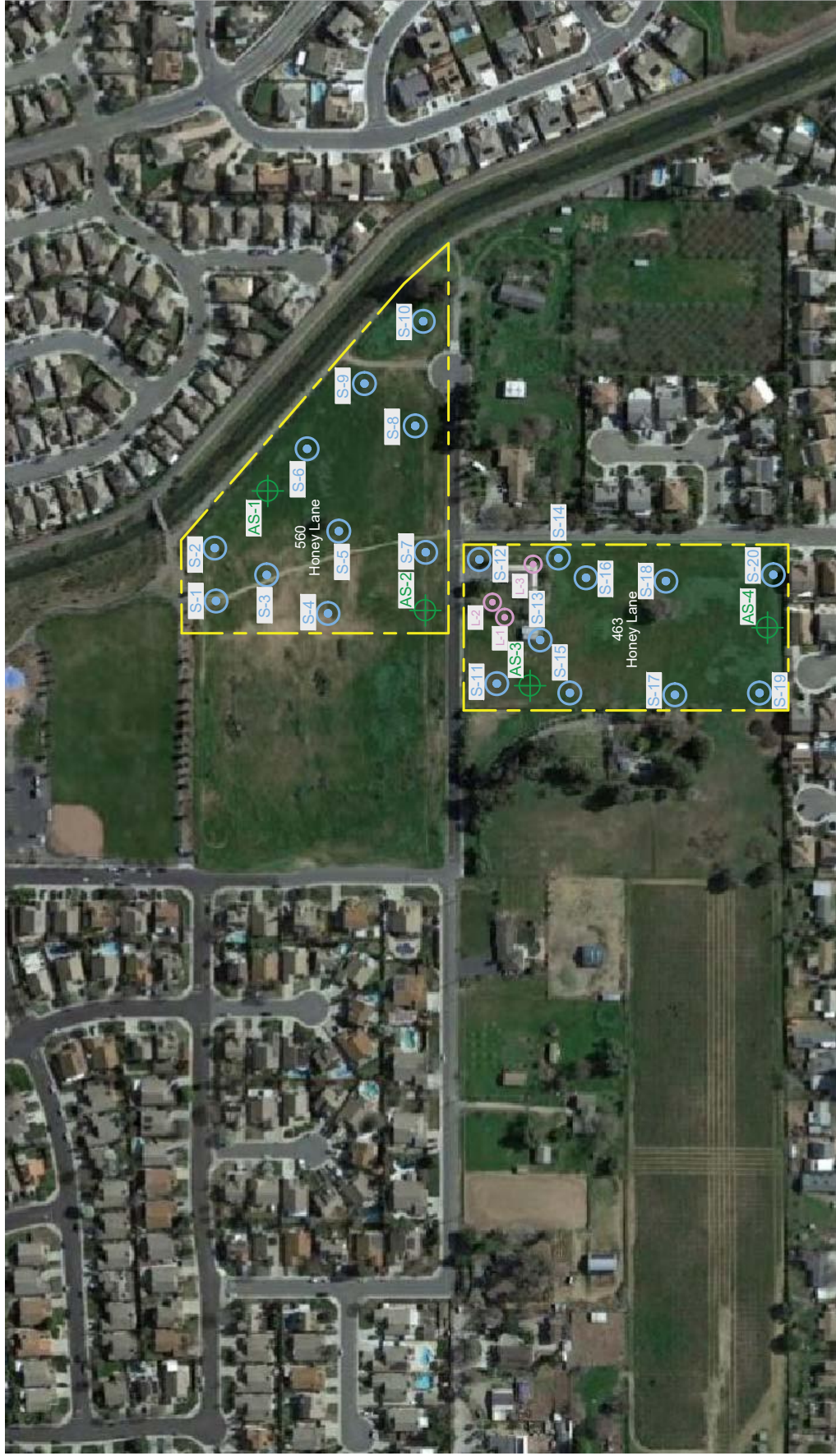
**NUVERA HOMES
 PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS
 463 and 560 HONEY LANE
 OAKLEY, CALIFORNIA**

Project No.
 2021-03
 Scale:
 AS SHOWN

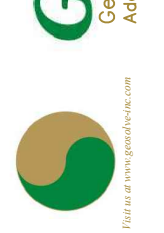
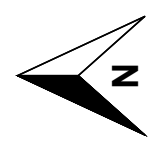
Drawn by:
 GC
 Date:
 03/2021

Figure No.

2



- LEGEND**
- Site Property Line
 - L-1 Surficial Lead Soil Sample
 - S-1 Surficial Soil Sample Location
 - ⊕ AS-1 Background Arsenic Sample Location



GeoSolve, Inc.
 Geoscience solutions rather than Status-Quo
 Address: 1807 Santa Rita Rd, Suite D-165
 Pleasanton, California 94566

SOIL SAMPLE LOCATIONS		Project No. 2021-03	Drawn by: GC	3
		Scale: AS SHOWN	Date: 03/2021	
NUVERA HOMES PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS 463 and 560 HONEY LANE OAKLEY, CALIFORNIA				
<p>GeoSolve, Inc. Geoscience solutions rather than Status-Quo Address: 1807 Santa Rita Rd, Suite D-165 Pleasanton, California 94566</p>				

Figure No.

SITE PHOTOGRAPHS





Photo 2A: Debris by Out-Building at 463 Honey Lane (viewing south)



Photo 2B: Water-Well at 463 Honey Lane (viewing south)



Photo 3A: Concrete Pad from Old Home at 560 Honey Lane



Photo 3B: Open Space at 560 Honey Lane (viewing east)



Photo 4A: Vacant Space at 560 Honey Lane (viewing north)



Photo 4B: Old Cattle Fencing in the middle of 560 Honey Lane (viewing north)



Photo 1A: Residence at 463 Honey Lane (viewing south)

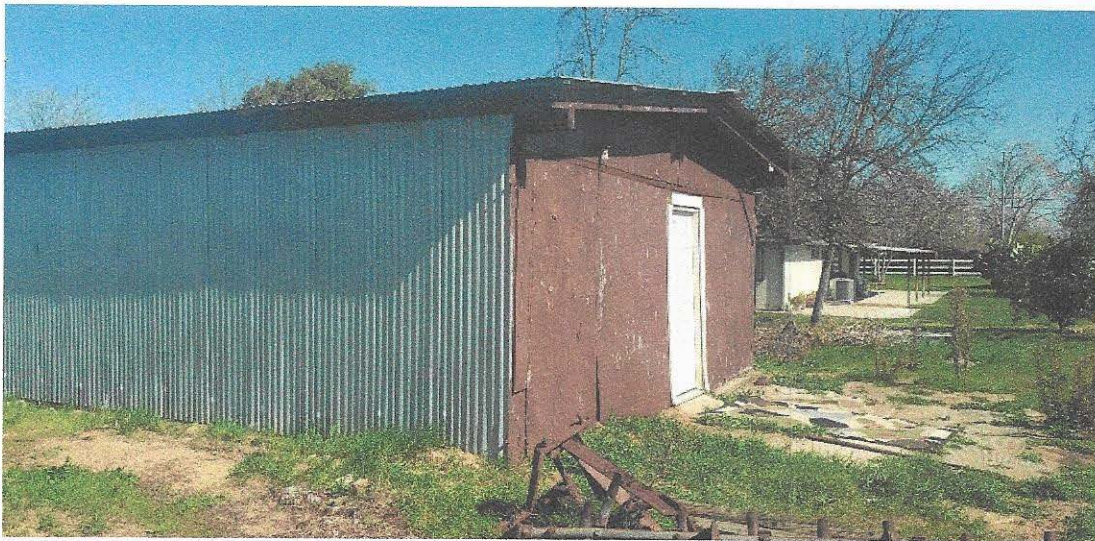


Photo 1B: Out-Building at 463 Honey Lane (viewing southwest)

PROPERTY DETAIL REPORTS





FULL PROPERTY DETAIL REPORT

Property Address:

463 HONEY LN OAKLEY CA 94561-2708

Parcel # (APN):

033-030-028-6

General Information

Parcel # (APN): **033-030-028-6**

Owner: **ANGELES ANGELA J**

Mailing Address: **PO BOX 1274 OAKLEY CA
94561-1274**

Legal Description: **PCL MAP 58 PG 46 PCL B**

Use Type: **RESID. SINGLE FAMILY**

Tax Rate Area: **019-029**



Assessment

Total Value:	\$254,778	Year Assd:	2020
Land:	\$162,639	Zoning:	
Structures:	\$92,139	Use Code:	11
Other:		Census Tract:	3020.08/2
% Improved:	36%	Price/SqFt:	\$125.00
Exempt Amt:			
HO Exempt:	N		

Sale History

	Sale 1	Sale 2	Sale 3	Transfer
Document Date:	03/17/1995	12/30/1994		09/03/2010
Document Number:	42921	304813		186911
Document Type:	GRANT DEED	GRANT DEED		
Transfer Amount:	\$166,000	\$133,000		
Seller (Grantor):				

Property Characteristics

Bedrooms:	3	Fireplace:		Units:	
Baths (Full):	2	A/C:		Stories:	
Baths (Half):		Heating:		Quality:	
Total Rooms:	7	Pool:		Building Class:	
Bldg/Liv Area:	1,328	Park Type:	Z	Condition:	
Lot Acres:	4.990	Spaces:		Site Influence:	
Lot SqFt:	217,364	Garage SqFt:	456	Timber Preserve:	
Year Built:	1987			Ag Preserve:	
Effective Year:	1988				



FULL PROPERTY DETAIL REPORT

Property Address:

560 HONEY LN OAKLEY CA 94561-2736

Parcel # (APN):

033-030-032-8

General Information

Parcel # (APN): **033-030-032-8**

Owner: **THOMAS JOLENE
CATHERINE TRE**

Mailing Address: **3052 MAJESTIC OAK CIR
COTTONWOOD CA 96022-
9562**

Legal Description: **PCL MAP 83 PG 8 PCL B EX
MR**

Use Type: **MISCELLANEOUS**

Tax Rate Area: **019-029**



Assessment

Total Value:	\$107,385	Year Assd:	2020
Land:	\$103,416	Zoning:	
Structures:	\$3,969	Use Code:	62
Other:		Census Tract:	3020.08/2
% Improved:	3%	Price/SqFt:	
Exempt Amt:			
HO Exempt:	N		

Sale History

	Sale 1	Sale 2	Sale 3	Transfer
Document Date:	05/10/2016	07/08/2009	12/31/1990	05/10/2016
Document Number:	87643	160241	16329-840	87643
Document Type:				
Transfer Amount:				
Seller (Grantor):				

Property Characteristics

Bedrooms:	Fireplace:	Units:
Baths (Full):	A/C:	Stories:
Baths (Half):	Heating:	Quality:
Total Rooms:	Pool:	Building Class:
Bldg/Liv Area:	Park Type:	Condition:
Lot Acres: 5.615	Spaces:	Site Influence:
Lot SqFt: 244,589	Garage SqFt:	Timber Preserve:
Year Built:		Ag Preserve:
Effective Year:		

NATURAL HAZARD REPORT PACKAGE



PARCELQUEST LITE

Subject Property

County:

APN:

033-030-032-8

Address:

560 HONEY LN
OAKLEY CA 94561-2736

Report Generated:

Monday, March 29, 2021



Natural Hazard Report Package contents:

1. Images Report
2. Special Flood Hazard Report
3. Dam Inundation Report
4. Fire Hazard Severity Report
5. Wildland Fire Hazard Report
6. Earthquake Fault Zone Report
7. Seismic Hazard Report

This ParcelQuest Hazard Report Package has been prepared based on proprietary information and information provided by public agencies. The content of this report is for informational purposes only. It is not a substitute for a report prepared by a licensed engineer, land surveyor, geologist, or expert in natural hazard discovery, nor is it intended to satisfy a transferor or listing agency's disclosure requirements under California Civil Code Section 1103.4.



Images Report

Property Address:

560 HONEY LN OAKLEY CA 94561-2736

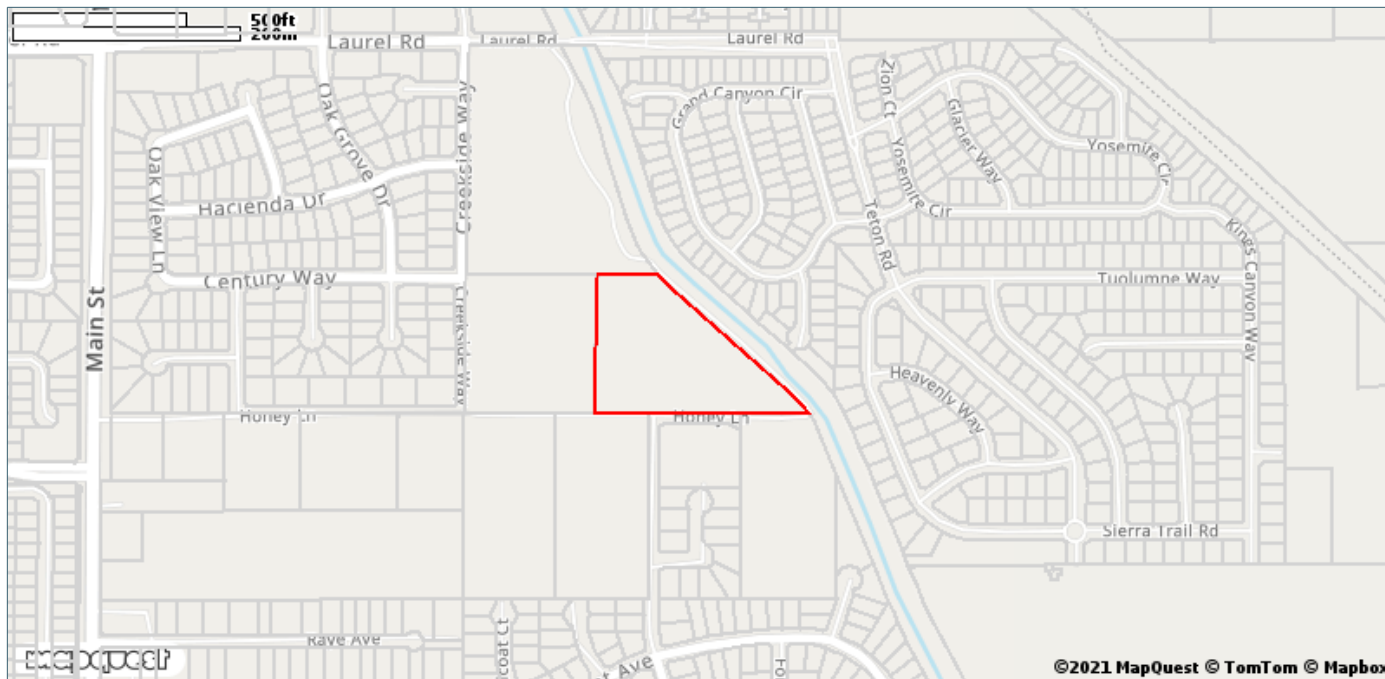
Parcel # (APN):

033-030-032-8

Vertical Aerial Photo



Street Map



Special Flood Hazard Report

The Federal Emergency Management Agency (FEMA) has prepared Flood Insurance Rate Maps, which delineate flood zones based on estimated flood risk. The zones pertinent to this report are Zone A and V (Special Flood Hazard Areas). Zone V is for coastal areas and Zone A is for inland areas. These zones are located within a 100-year flood plain. A 100-year flood has a one-percent chance of occurrence in any given year. Flood insurance is required by federally regulated lending institutions for the properties located within Zones A or V. Local flood control projects to mitigate flood hazard potential can change the flood risk of a specific area or property. The flood risk of a specific area or property may be updated through a Letter of Map Change filed with FEMA. Specific updated flood risk information, not included on the Flood Insurance Rate Maps, is not provided in this report. If a property is located within a Special Flood Hazard Area, ParcelQuest recommends contacting FEMA for the updated risk assessment of the property and the current flood insurance requirements. It should be noted that properties within a Special Flood Hazard Zone may never experience flooding, and conversely, properties not located within a Special Flood Hazard Zone may experience flooding. This report is not meant to predict flooding, but rather to identify properties for which flood insurance may be required by federally regulated lending institutions.

Dam Inundation Report

The California Office of Emergency Services (CA OES), also known as the California Emergency Management Agency (CEMA), has provided Inundation Maps, which delineate areas subject to flooding from a sudden, catastrophic failure of a dam with a full reservoir. Maps are not available for all dams in the state. Additional maps may become available subsequent to approval by the OES. Inundation from reservoir, dam, or dike failure can pose serious risks to large segments of the population. Cities and counties within the mapped areas are required to adopt emergency procedures for the evacuation of populated areas.

Fire Hazard Severity Report

The California Department of Forestry and Fire Protection (CDF), also known as Cal Fire, under the Bates Bill (AB 337) established Very High Fire Hazard Severity Zones (VHFHSZ) in the Local Responsibility Areas (LRA) of California. The maps prepared by Cal Fire show zones based on State criteria. Local agencies, by law, are allowed to make changes to the zones. Fire defense improvements are mandated for properties located within the zones under section 51178 and 51179 of the Government Code. Mandated improvements include a Class A roof for new development or replacement of an existing roof and brush clearing within 30 feet of a structure. For a complete listing of the mandated fire defense improvements and local zone changes, contact the local fire department. The Very High Fire Hazard Severity Zone Maps were prepared at a scale that does not always allow a conclusive determination to be made at zone boundaries. In these cases, the local fire department should be contacted to determine if the property is located within the zone.

Wildland Fire Hazard Report

The California Department of Forestry and Fire Protection (CDF), also known as Cal Fire, has established State Responsibility Areas (SRAs) for which the primary financial responsibility for prevention and suppression of fires is that of the State. However, the State is not responsible for protecting structures within these areas. The property owner is subject to certain maintenance requirements and may be responsible for fire protection of structures under Section 4291 of the Public Resources Code. If the property is located within a State Responsibility Area, ParcelQuest recommends contacting the county fire department to obtain a full listing of property owner maintenance and fire protection requirements. Public Resources Code Section 4326 reads, "A seller of real property which is located within a state responsibility area determined by the board, pursuant to Section 4125, shall disclose to any prospective purchase the fact that the property is located within a wild land area which may contain substantial forest fire risks and hazards and is subject to the requirements of Section 4291." The State Responsibility Area Maps were prepared as a scale that does not always allow a conclusive determination to be made at zone boundaries. In these cases, the county fire department should be contacted to determine if the property is located within the zone.

Earthquake Fault Zone Report

The state geologist has established regulatory zones around the mapped surface traces of active faults. These zones, typically one-quarter mile or less in width, have been delineated on maps around "sufficiently active and well-defined" faults and fault segments that "constitute a potential hazard to structures from surface faulting or fault creep." Faults that demonstrate movement during the past 11,000 years are considered active. The purpose of the Act under Section 2621-2630 of the Public Resources Code is to assist cities and counties in land use planning and development permit requirements. The State Mining and Geology Board provide additional regulations to guide cities and counties in their implementation of the law under California Code of Regulations, Title 14, and Division 2. Local agencies must regulate most types of development projects located within the zones. If this report indicates the subject property is located within an Earthquake Fault Zone, ParcelQuest recommends consulting a Certified Engineering Geologist to assess the site-specific potential for surface fault rupture. It should be noted that the State Earthquake Fault Zoning Program is ongoing and properties currently not situated in a zone may be located in a zone established in the future.

Seismic Hazard Report

The California Division of Mines and Geology under the Seismic Hazards Mapping Act has prepared maps delineating zones of potential seismic hazards. The legislation for the Act may be found in the California Public Resources Code, Division 2, Chapter 7.8, Sections 2690-2699.6 and Chapter 8, Article 10, Sections 3720-3725. The purpose of the Act is to provide cities and counties with zones where site-specific geo-technical studies are required prior to development. Local agencies must regulate most types of development projects located within the zones. The currently available Official Maps of Seismic Hazard Zones contains zones for the seismic hazards of liquefaction and earthquake induce land sliding for limited geographic areas only. However, future maps may contain additional seismic hazards and may cover the entire state. Due to limitations of the state Seismic Hazards Mapping Program, ParcelQuest recommends hiring a Certified Engineering Geologist to address any concerns regarding the seismic hazard potential of the subject site.

The Liquefaction Hazard Zones delineate areas where liquefaction has been recorded in the past and areas where local soil and groundwater conditions indicate a potential for permanent ground displacement from liquefaction that would require mitigation. Site-specific geo-technical studies are required prior to new development. Liquefaction is a process whereby saturated, unconsolidated, sandy soils, temporarily become liquefied as a result of strong ground shaking. Liquefaction is considered most likely when the ground water table is located less than 50 feet below the ground surface. Ground displacement may occur and buildings may be damaged as a result of liquefaction.

Earthquake-induced Landslide Zones include areas where geologic materials are considered susceptible to slope failure during strong earthquake ground shaking. Also included are areas with identified past landslide movement and areas with known earthquake-induced slope failure during historic earthquakes. Site-specific geo-technical studies are required prior to new development. It should be noted that the maps may not show all areas of potential liquefaction or earthquake-induced land sliding. In addition, the mapped areas within each zone will not be affected uniformly during an earthquake. As noted on the maps, "Liquefaction zones may also contain areas susceptible to the effects of earthquake-induced landslides. This situation typically exists at or near the toe of existing landslides, down slope from rock fall or debris flow source areas, or adjacent to steep stream beds."



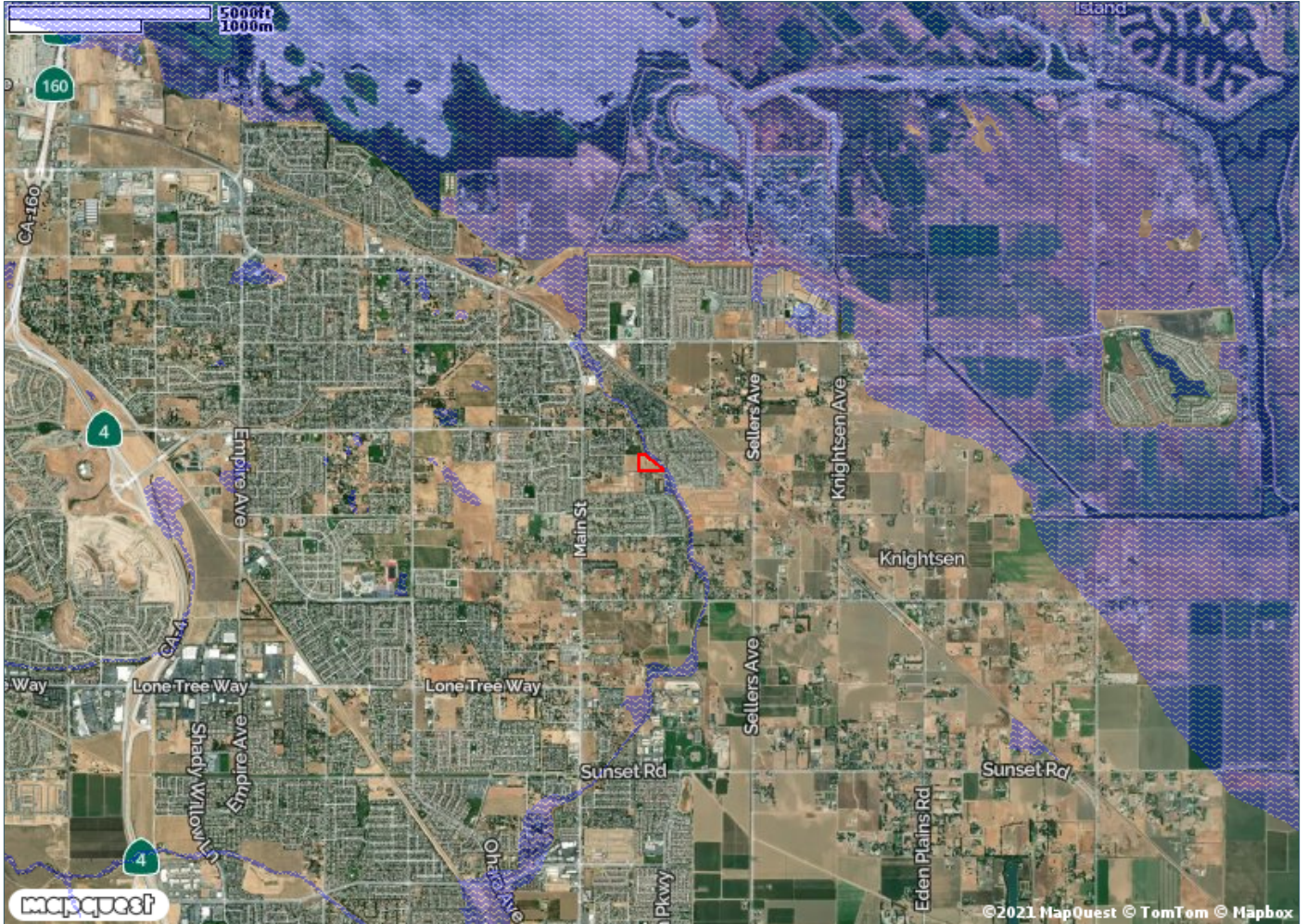
Special Flood Hazard Report

Property Address:


560 HONEY LN OAKLEY CA 94561-2736

Parcel # (APN):

033-030-032-8



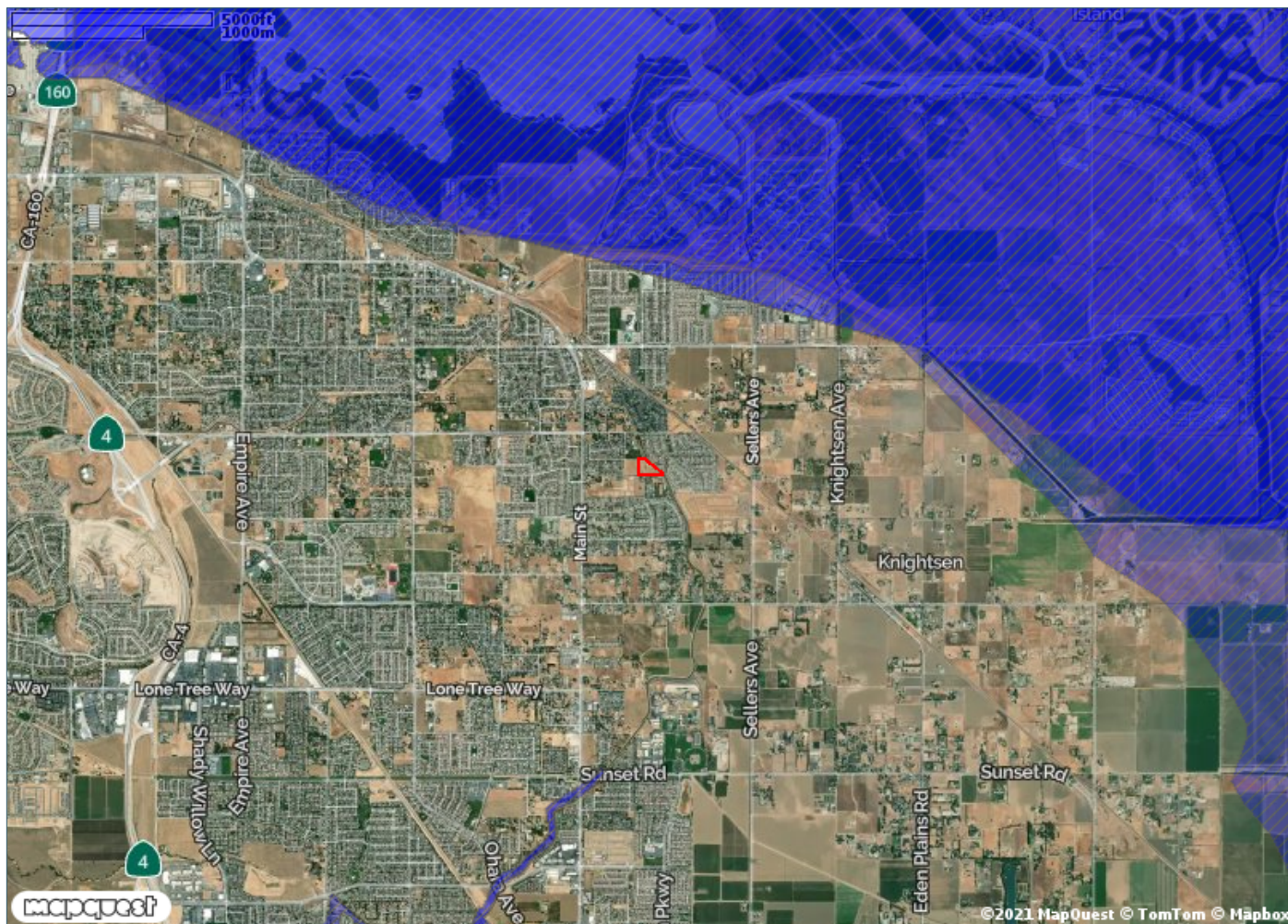
FEMA Flood Zone Legend

 FEMA Flood Zones type 'A' or 'V'


Dam Inundation Report

Property Address:
560 HONEY LN OAKLEY CA 94561-2736

Parcel # (APN):
033-030-032-8



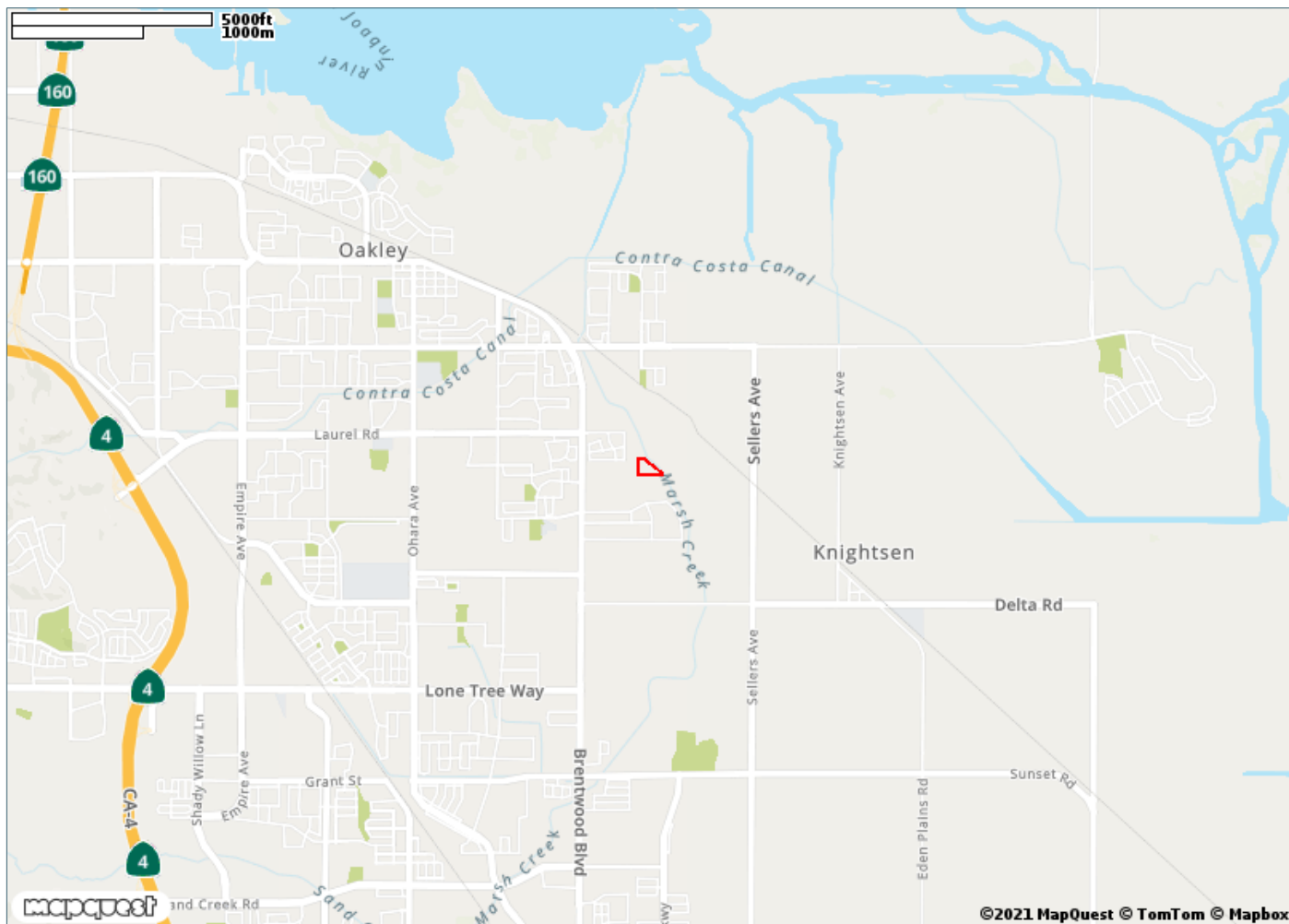
CEMA Dam Inundation Legend

-  CEMA Dam Inundation Zone(s)

Fire Hazard Severity Report

Property Address:
560 HONEY LN OAKLEY CA 94561-2736

Parcel # (APN):
033-030-032-8



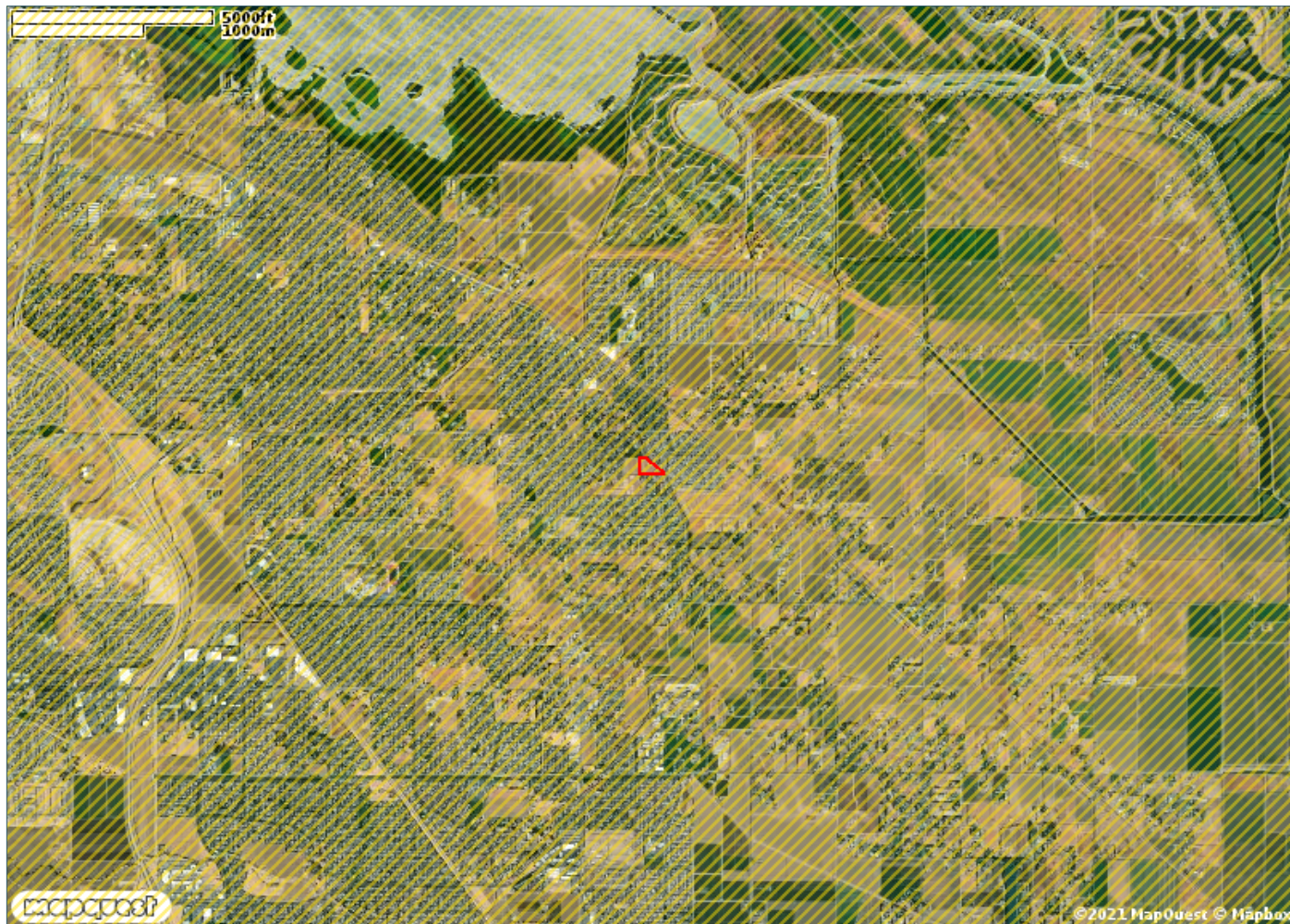
Cal Fire Hazard Severity Legend

- Moderate Fire Hazard Severity
- High Fire Hazard Severity
- Very High Fire Hazard Severity
- Fire Hazard Severity Not Reported




Wildland Fire Hazard Report

Property Address:
560 HONEY LN OAKLEY CA 94561-2736

Parcel # (APN):
033-030-032-8



Cal Fire Wildland Fire Hazard Legend

-  Local Responsibility Area
-  State Responsibility Area
-  Federal Responsibility Area



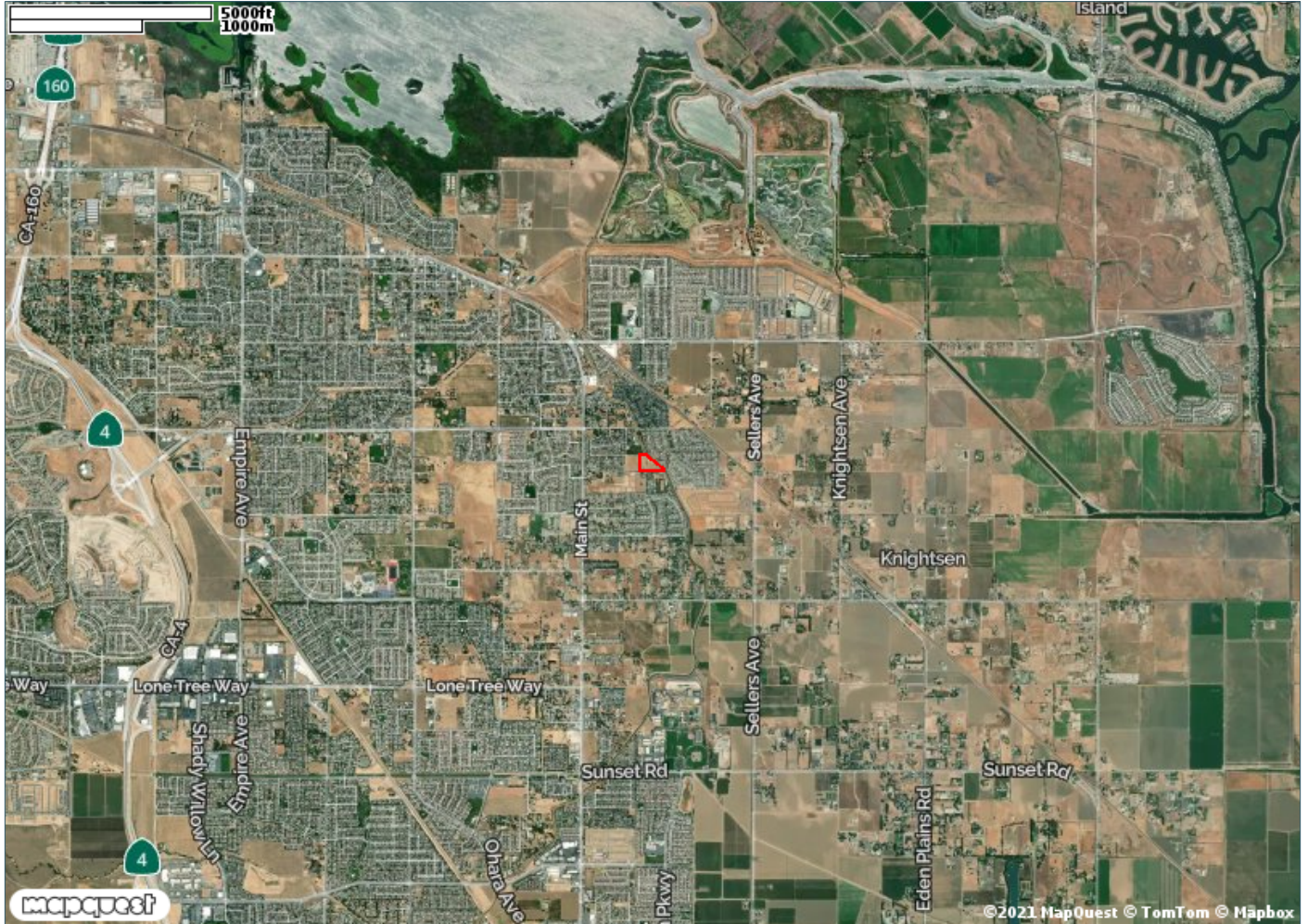
Earthquake Fault Zone Report

Property Address:

560 HONEY LN OAKLEY CA 94561-2736

Parcel # (APN):

033-030-032-8



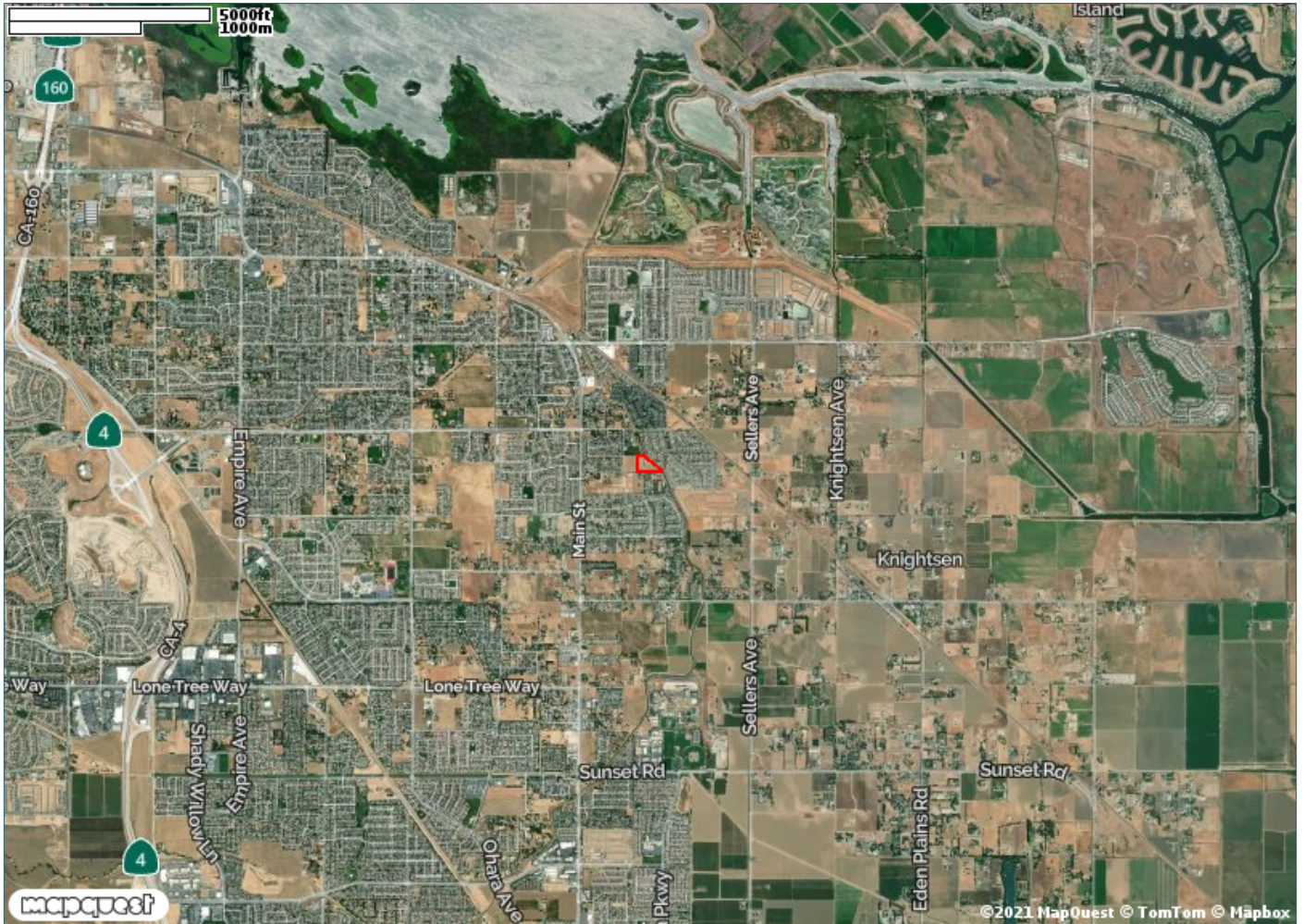
CA Geological Survey Earthquake Legend

- Earthquake Fault Zone(s)





Seismic Hazard Report

Property Address:
560 HONEY LN OAKLEY CA 94561-2736
Parcel # (APN):
033-030-032-8



CA Geological Survey Seismic Legend

-  Landslide Zone
-  Liquefaction Zone

Statement of Liability, Limitations, Conditions, Terms and Assumptions

The content of this report, herein referred to as "Report" concerns the property identified in the Report, herein referred to as "Property" which does NOT include any property beyond the lines of the area described, or referred to in this Report, nor any real property described as an easement, nor any right, title, interest, estate or easement in abutting streets, roads, alleys, lanes, ways, or waterways. ParcelQuest has not made a physical inspection of the Property. This Report is not a substitute for a physical inspection of the Property, examination of its physical conditions, and/or its surroundings, and is not a substitute for a title report or title insurance and may not be relied upon as such. ParcelQuest is not a licensed engineer, land surveyor, geologist, or expert in natural hazard discovery.

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ParcelQuest is not responsible for the accuracy of the address or APN in this report. No opinion is rendered, nor responsibility assumed, and no representation is made as to whether the Property is comprised of legal lots in conformance with the California Subdivision Map Act and local ordinances enacted pursuant thereto.

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This Report is issued as of the date specified herein. ParcelQuest has no obligation to advise the purchaser of this report or any other interested party of any relevant fact, circumstance or change that occurs after the date specified herein which pertains to the Property or which modified or otherwise affects the information provided in this Report.

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**AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS
CERTIFIED SANBORN MAP REPORT
CITY DIRECTORIES**





Vacant Properties

463 & 560 Honey Lane

Oakley, CA 94561

Inquiry Number: 6371926.11

February 18, 2021

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

02/18/21

Site Name:

Vacant Properties
463 & 560 Honey Lane
Oakley, CA 94561
EDR Inquiry # 6371926.11

Client Name:

GeoSolve
1807 Santa Rita Road
Pleasanton, CA 94566-0000
Contact: Robert Campbell



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: January 01, 1993	USGS/DOQQ
1984	1"=500'	Flight Date: September 01, 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
1949	1"=500'	Flight Date: October 13, 1949	USGS
1939	1"=500'	Flight Date: June 28, 1939	USDA

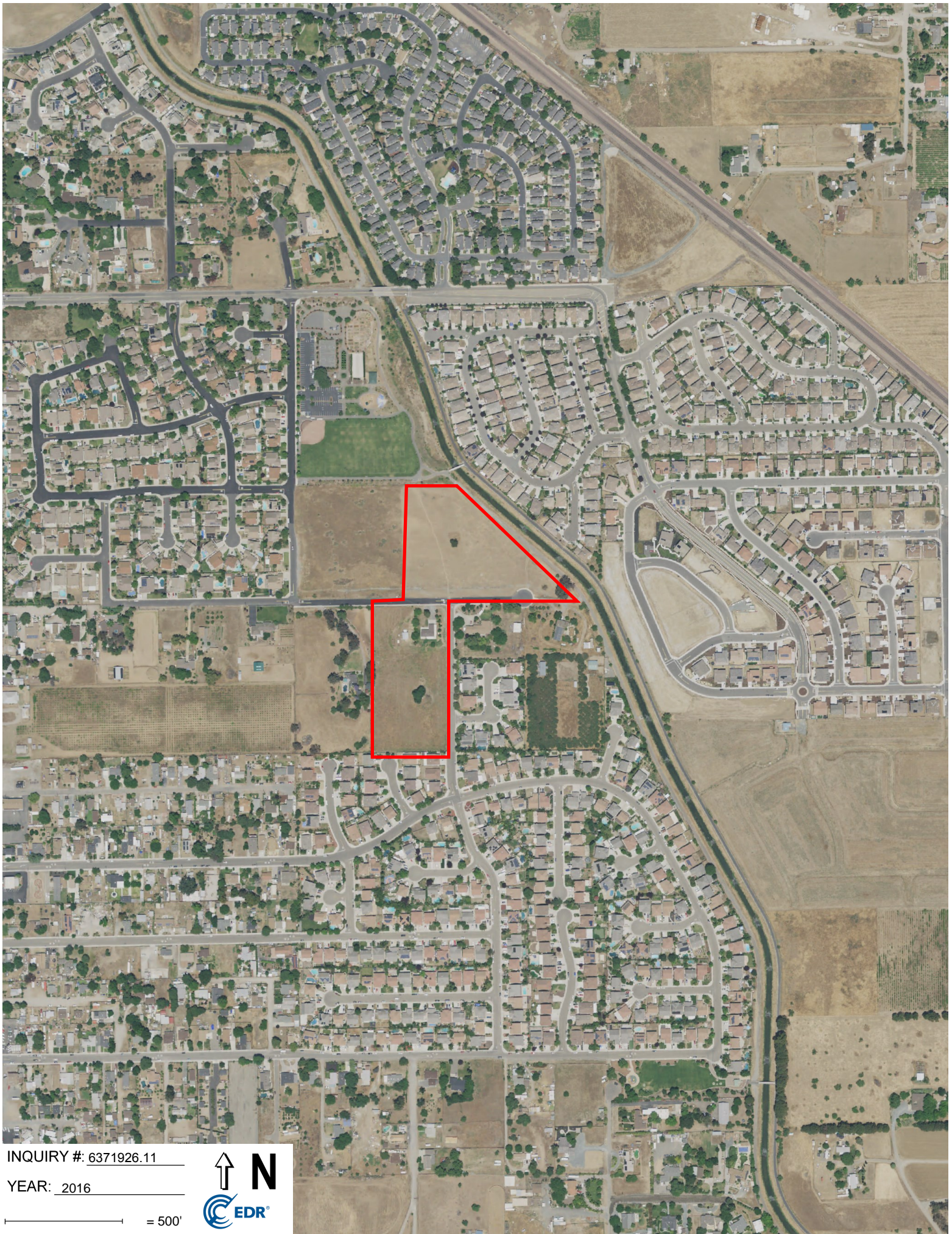
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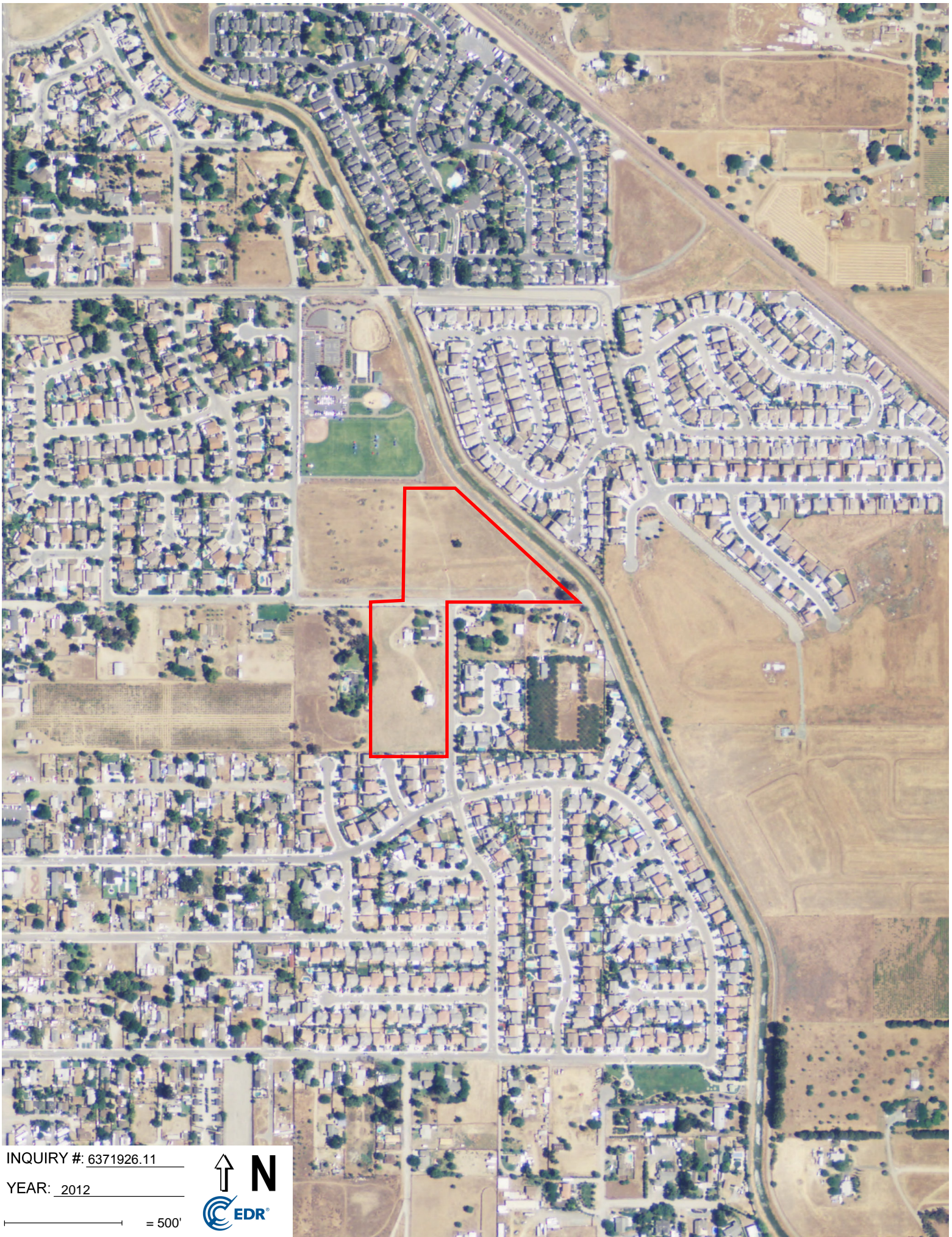


INQUIRY #: 6371926.11

YEAR: 2016

— = 500'





INQUIRY #: 6371926.11

YEAR: 2012

— = 500'





INQUIRY #: 6371926.11

YEAR: 2009

— = 500'





INQUIRY #: 6371926.11

YEAR: 2006

— = 500'





INQUIRY #: 6371926.11

YEAR: 1998

— = 500'





INQUIRY #: 6371926.11

YEAR: 1993

 = 500'



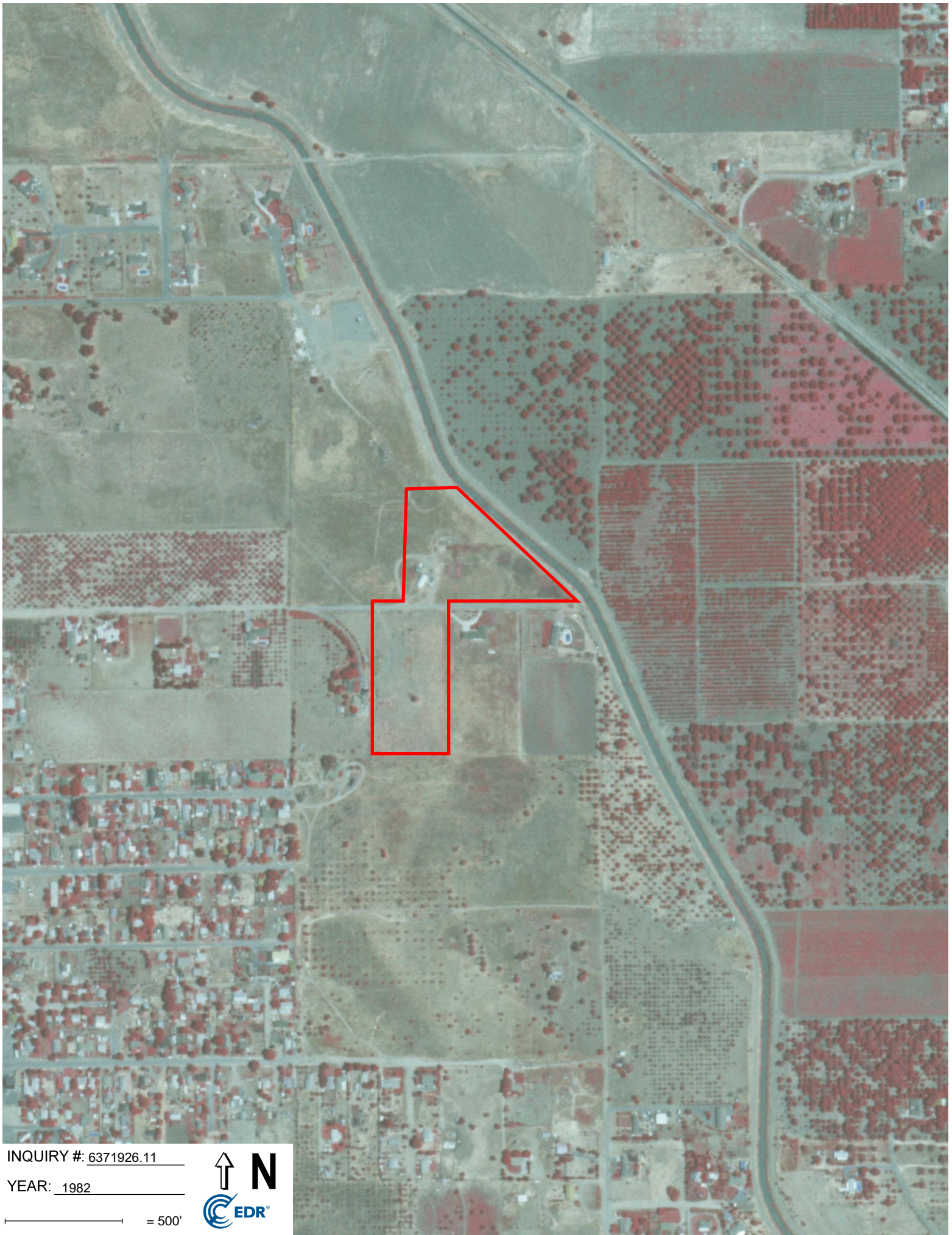


INQUIRY #: 6371926.11

YEAR: 1984

— = 500'



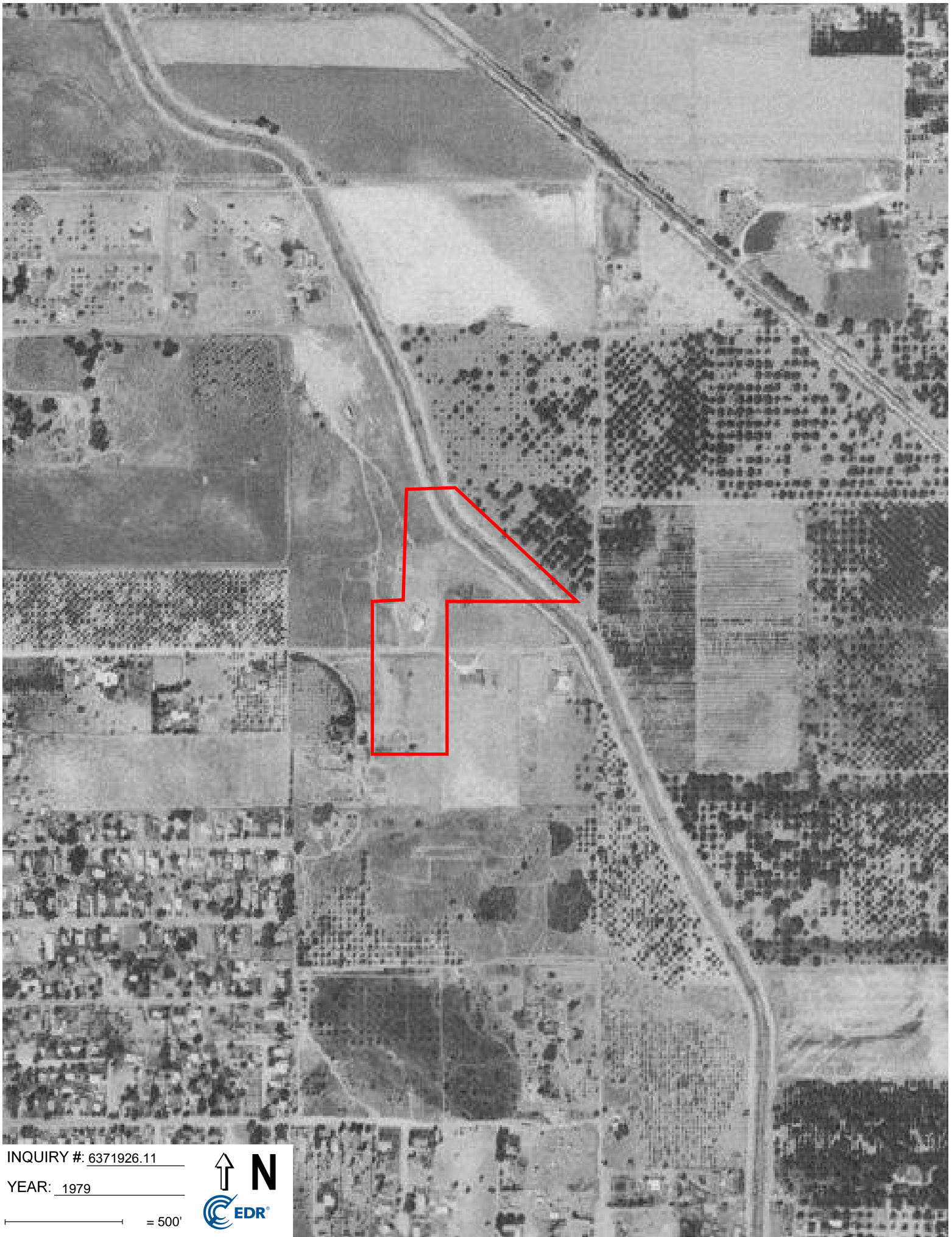


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YEAR: 1982

— = 500'





INQUIRY #: 6371926.11

YEAR: 1979

— = 500'



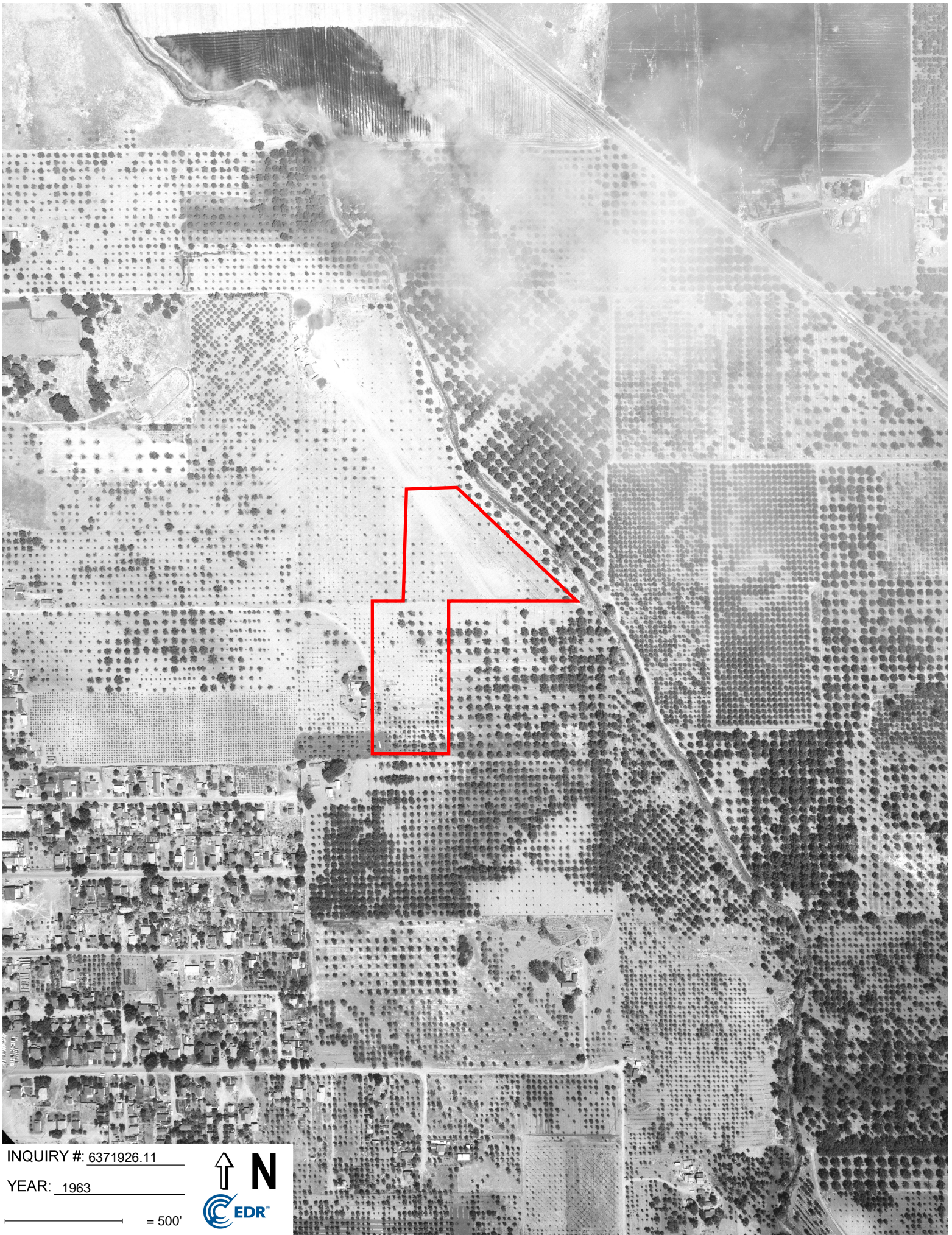


INQUIRY #: 6371926.11

YEAR: 1966

— = 500'



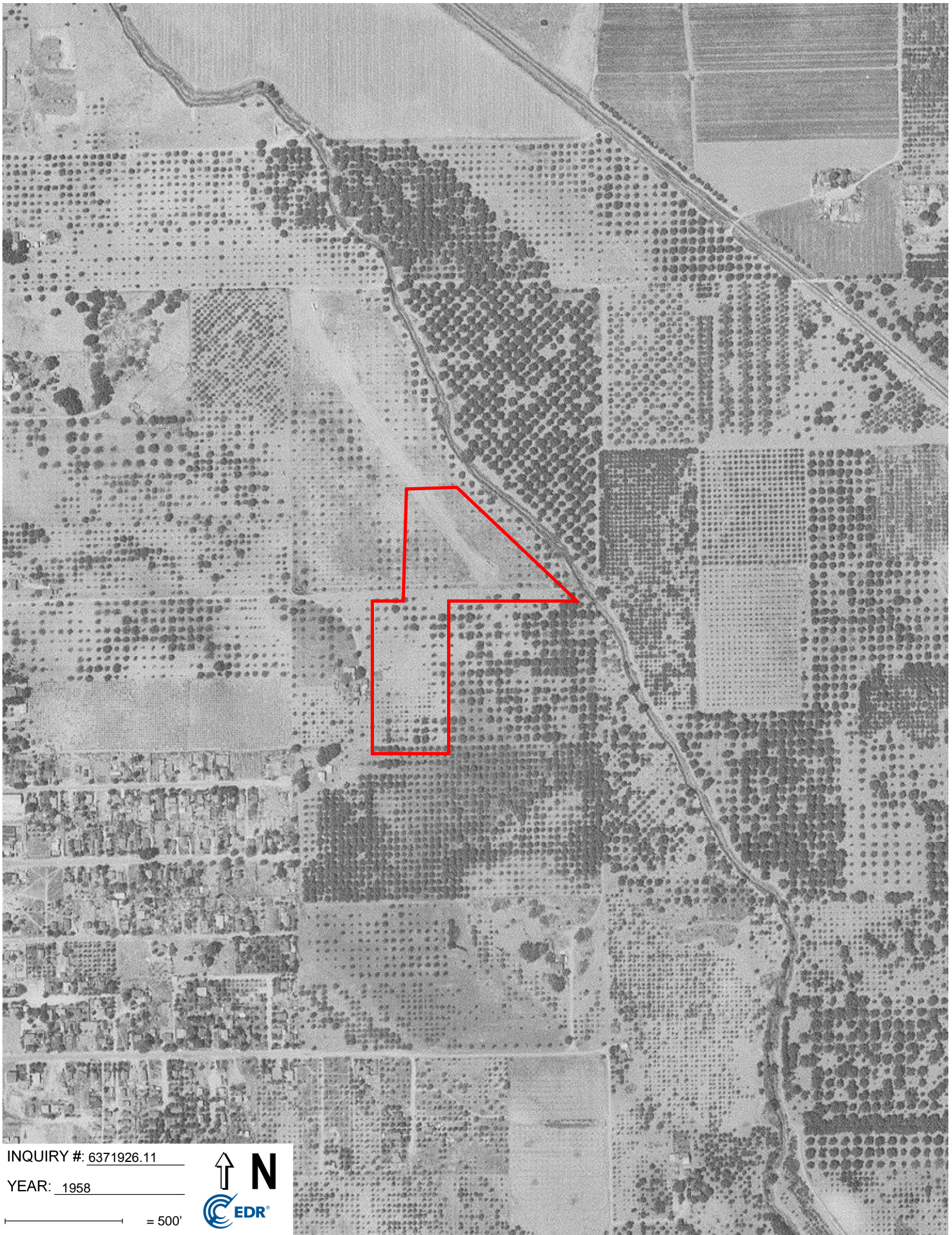


INQUIRY #: 6371926.11

YEAR: 1963

— = 500'



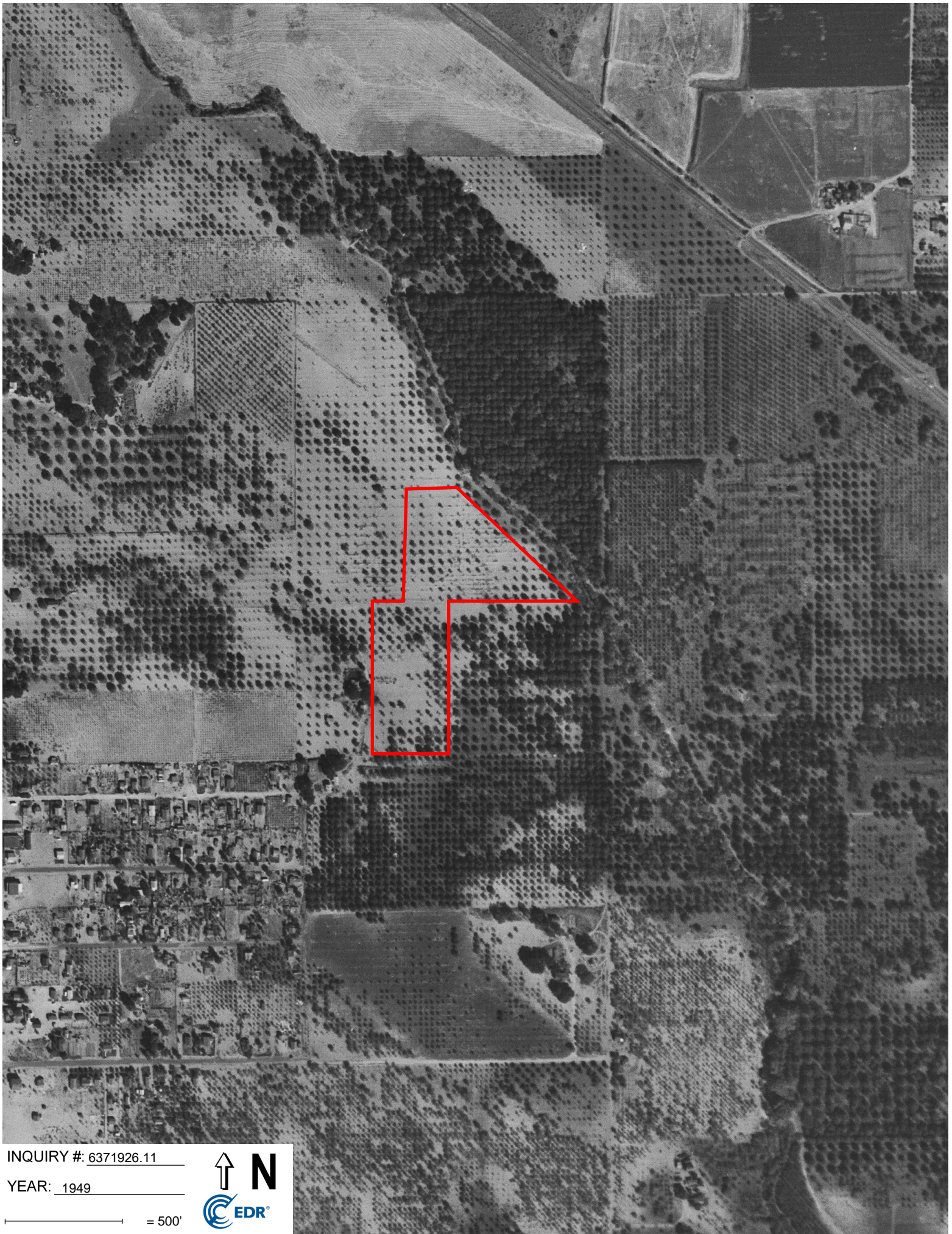


INQUIRY #: 6371926.11

YEAR: 1958

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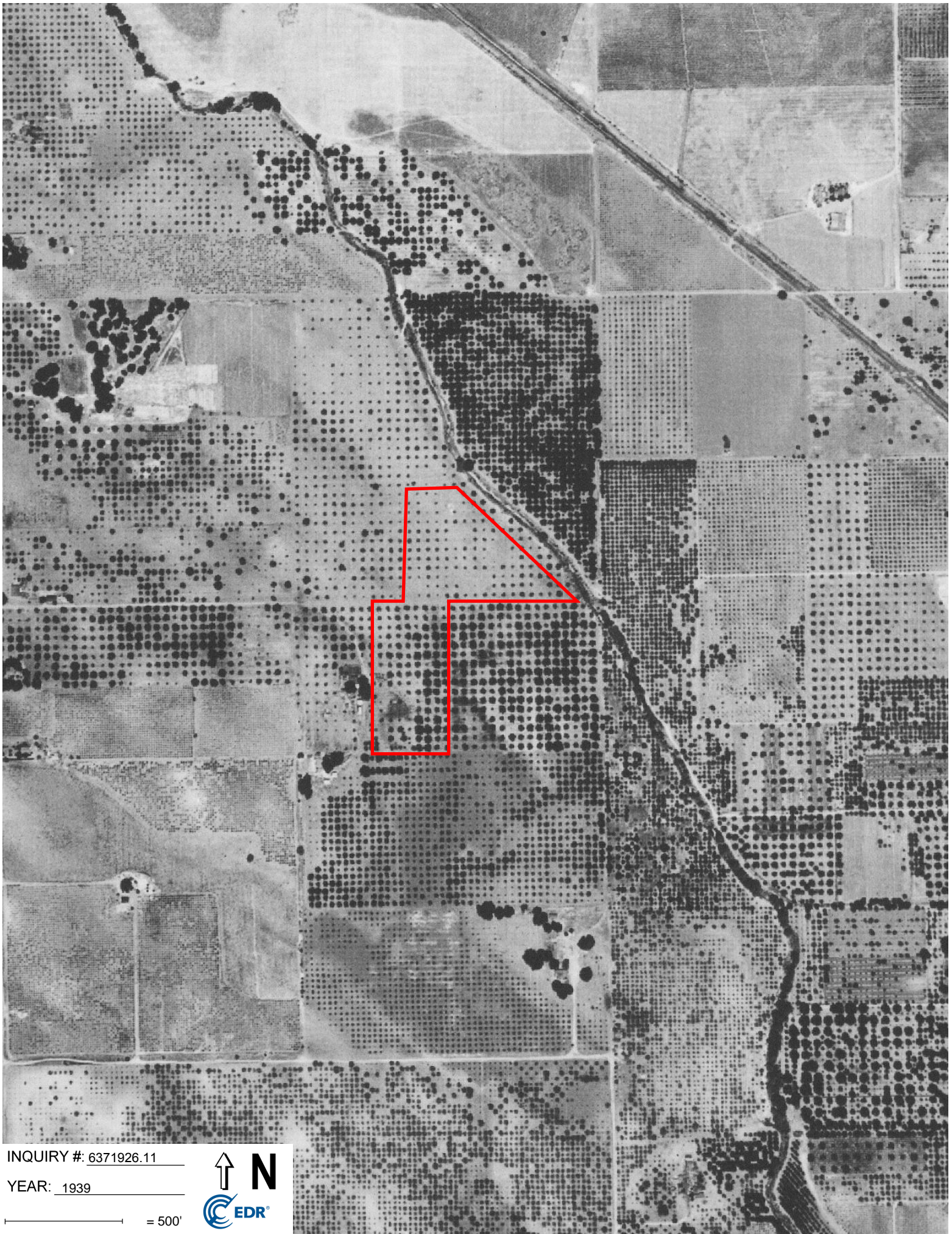


INQUIRY #: 6371926.11

YEAR: 1949

— = 500'





INQUIRY #: 6371926.11

YEAR: 1939

— = 500'



Vacant Properties

463 & 560 Honey Lane

Oakley, CA 94561

Inquiry Number: 6371926.4

February 18, 2021

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

02/18/21

Site Name:

Vacant Properties
463 & 560 Honey Lane
Oakley, CA 94561
EDR Inquiry # 6371926.4

Client Name:

GeoSolve
1807 Santa Rita Road
Pleasanton, CA 94566-0000
Contact: Robert Campbell



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by GeoSolve 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.#	2021-03	Latitude:	37.979701 37° 58' 47" North
Project:	2021-03	Longitude:	-121.689412 -121° 41' 22" West
		UTM Zone:	Zone 10 North
		UTM X Meters:	615100.30
		UTM Y Meters:	4204372.98
		Elevation:	31.92' above sea level

Maps Provided:

2012
1978
1968
1954
1943
1940
1916
1914

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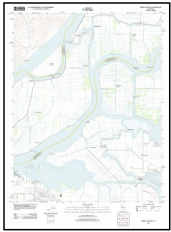
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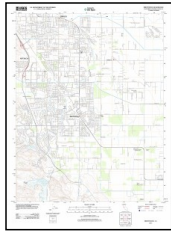
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

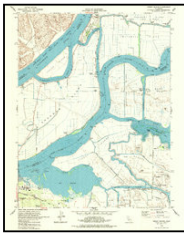


Jersey Island
2012
7.5-minute, 24000

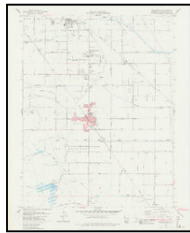


Brentwood
2012
7.5-minute, 24000

1978 Source Sheets

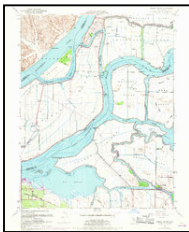


Jersey Island
1978
7.5-minute, 24000
Aerial Photo Revised 1974

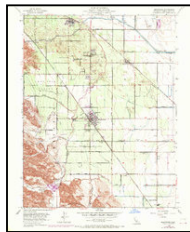


Brentwood
1978
7.5-minute, 24000
Aerial Photo Revised 1974

1968 Source Sheets

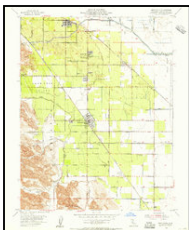


Jersey Island
1968
7.5-minute, 24000
Aerial Photo Revised 1968



Brentwood
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1954 Source Sheets

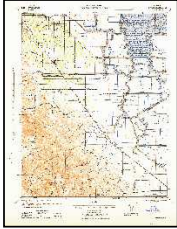


Brentwood
1954
7.5-minute, 24000
Aerial Photo Revised 1949

Topo Sheet Key

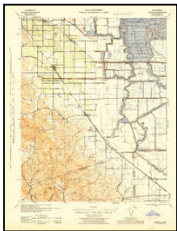
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets



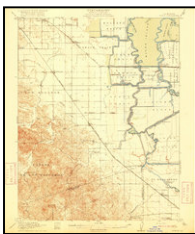
BYRON
1943
15-minute, 62500

1940 Source Sheets



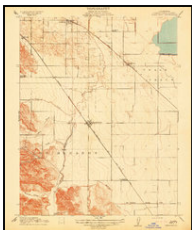
Byron
1940
15-minute, 62500
Aerial Photo Revised 1940

1916 Source Sheets

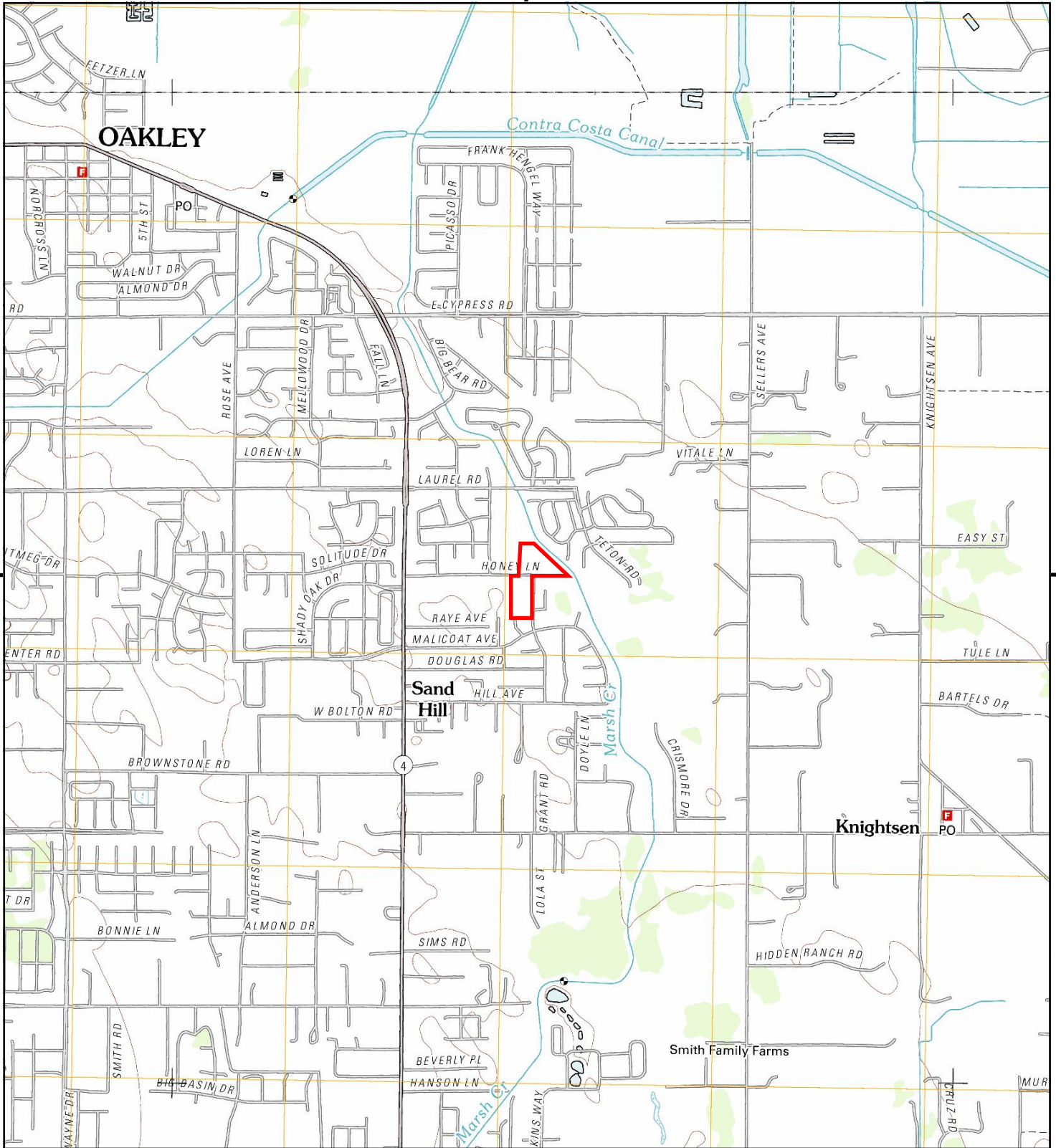


Byron
1916
15-minute, 62500

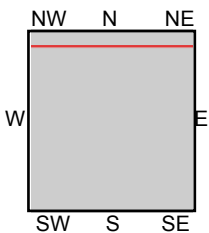
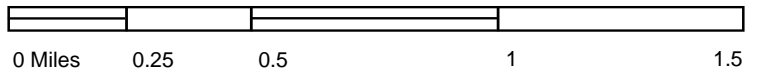
1914 Source Sheets



Brentwood
1914
7.5-minute, 31680



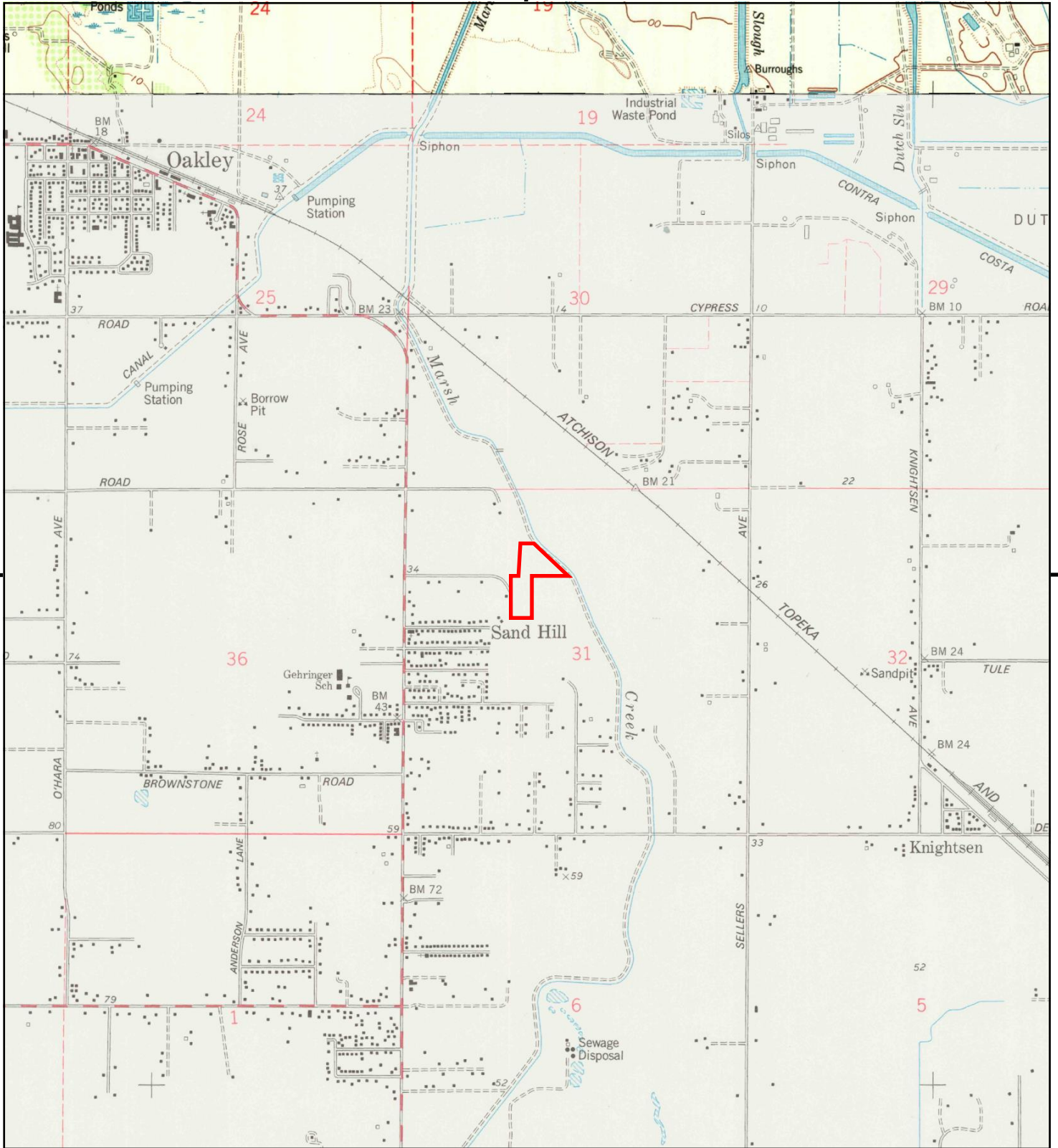
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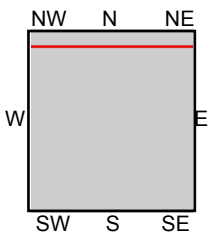
TP, Brentwood, 2012, 7.5-minute
N, Jersey Island, 2012, 7.5-minute

SITE NAME: Vacant Properties
ADDRESS: 463 & 560 Honey Lane
Oakley, CA 94561
CLIENT: GeoSolve





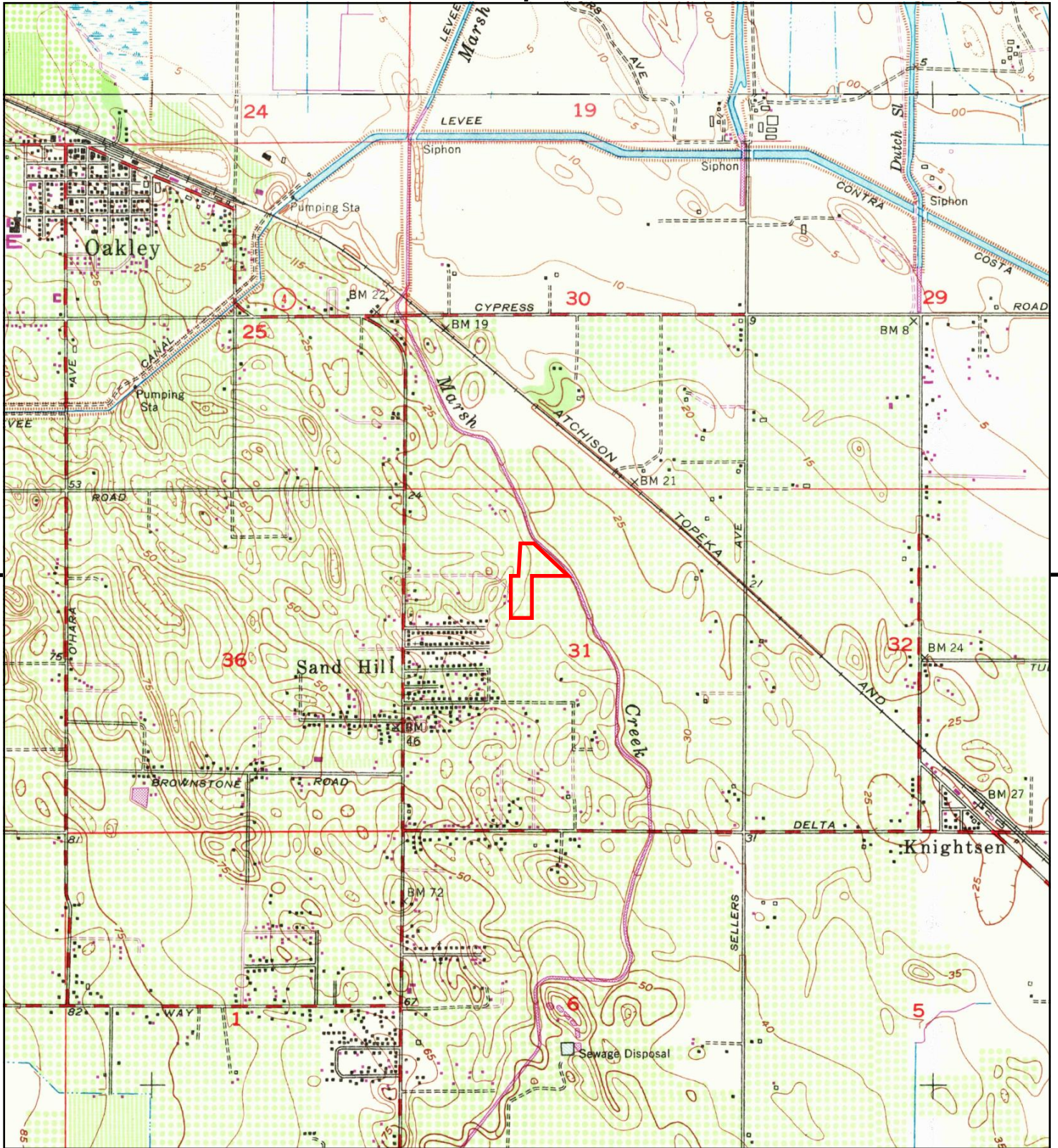
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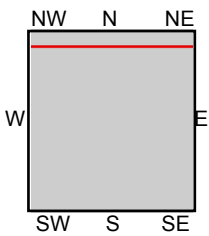
TP, Brentwood, 1978, 7.5-minute
N, Jersey Island, 1978, 7.5-minute

SITE NAME: Vacant Properties
ADDRESS: 463 & 560 Honey Lane
Oakley, CA 94561
CLIENT: GeoSolve





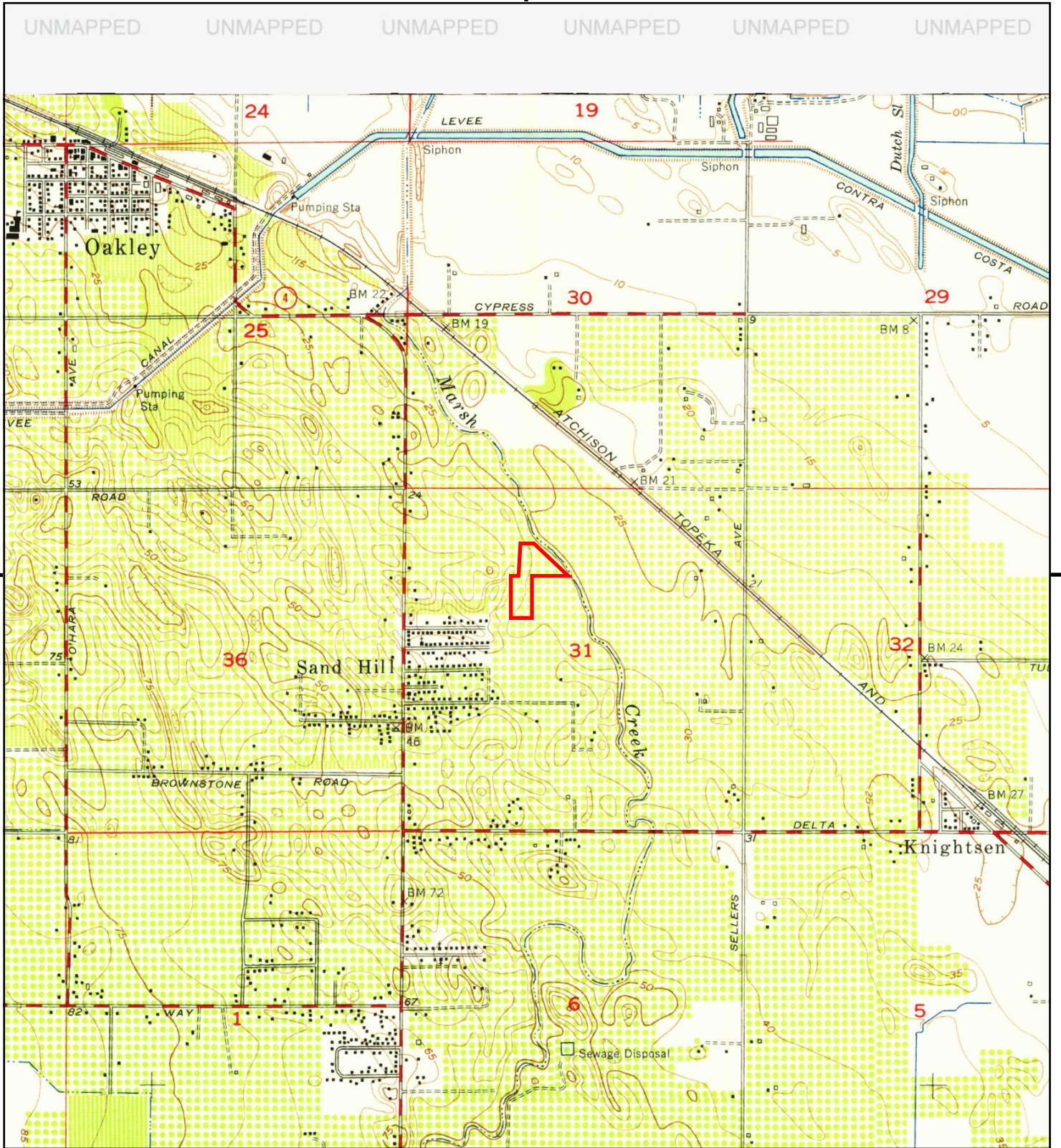
This report includes information from the following map sheet(s).



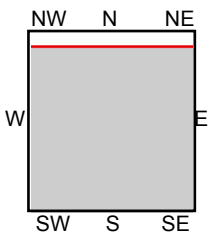
TP, Brentwood, 1968, 7.5-minute
N, Jersey Island, 1968, 7.5-minute

SITE NAME: Vacant Properties
ADDRESS: 463 & 560 Honey Lane
Oakley, CA 94561
CLIENT: GeoSolve





This report includes information from the following map sheet(s).



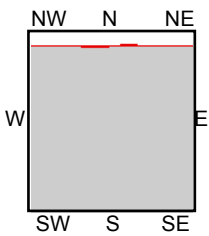
TP, Brentwood, 1954, 7.5-minute

SITE NAME: Vacant Properties
ADDRESS: 463 & 560 Honey Lane
 Oakley, CA 94561
CLIENT: GeoSolve





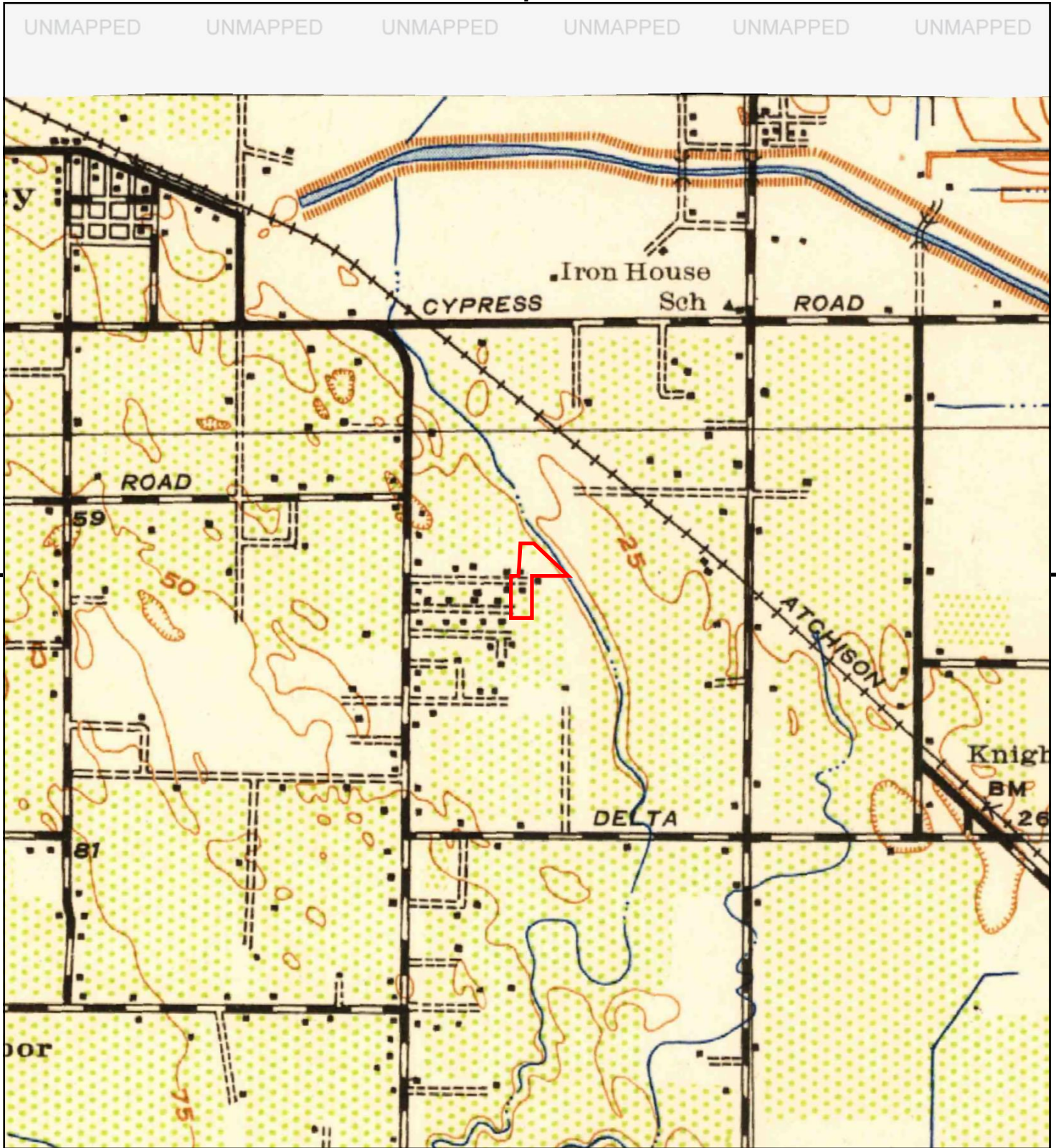
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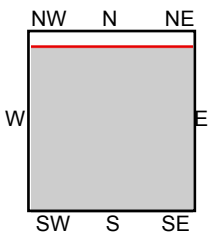
TP, BYRON, 1943, 15-minute

SITE NAME: Vacant Properties
 ADDRESS: 463 & 560 Honey Lane
 Oakley, CA 94561
 CLIENT: GeoSolve





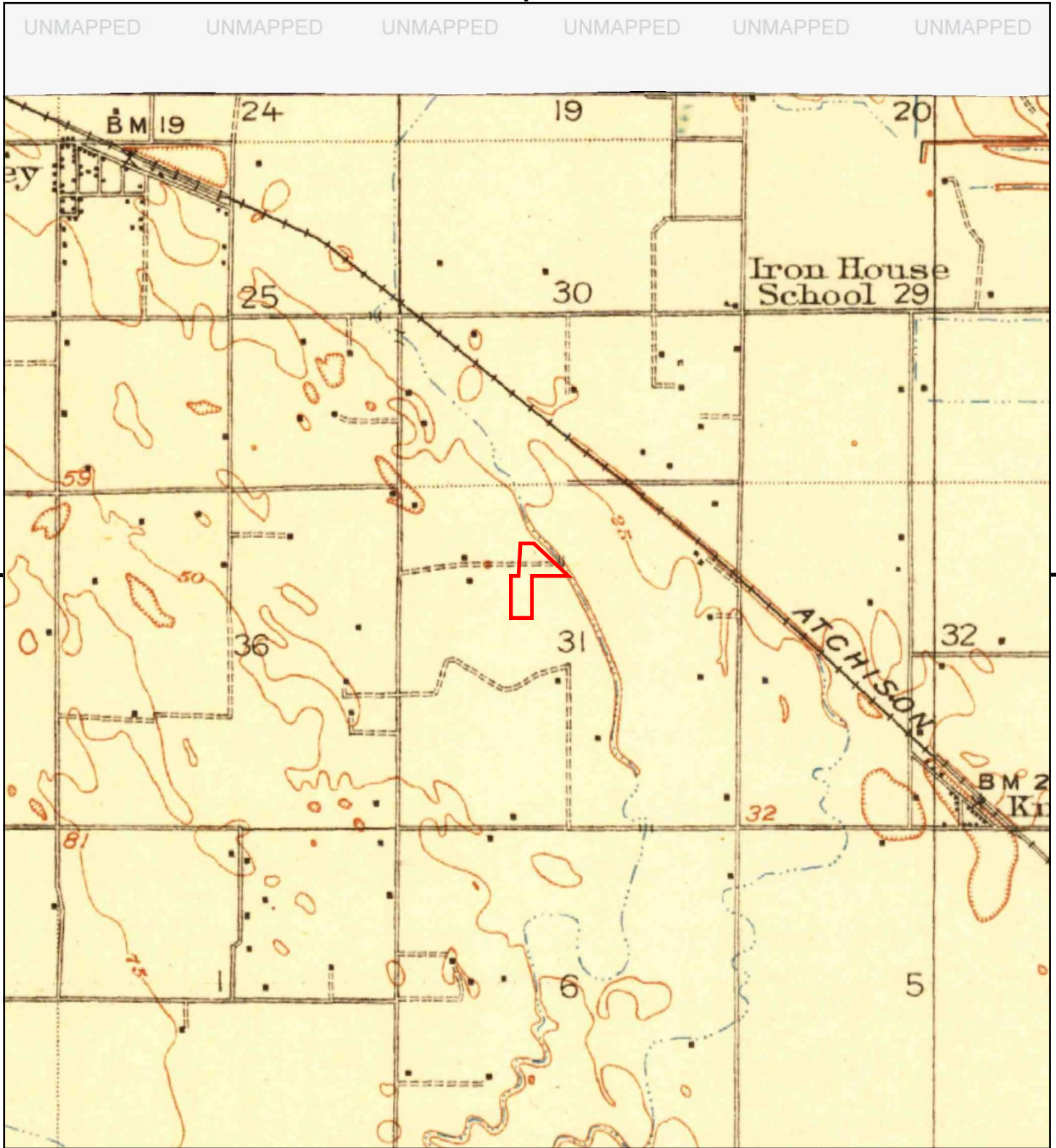
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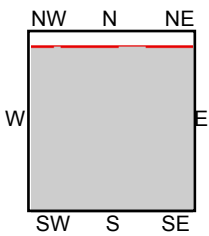
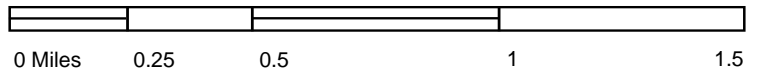
TP, Byron, 1940, 15-minute

SITE NAME: Vacant Properties
 ADDRESS: 463 & 560 Honey Lane
 Oakley, CA 94561
 CLIENT: GeoSolve





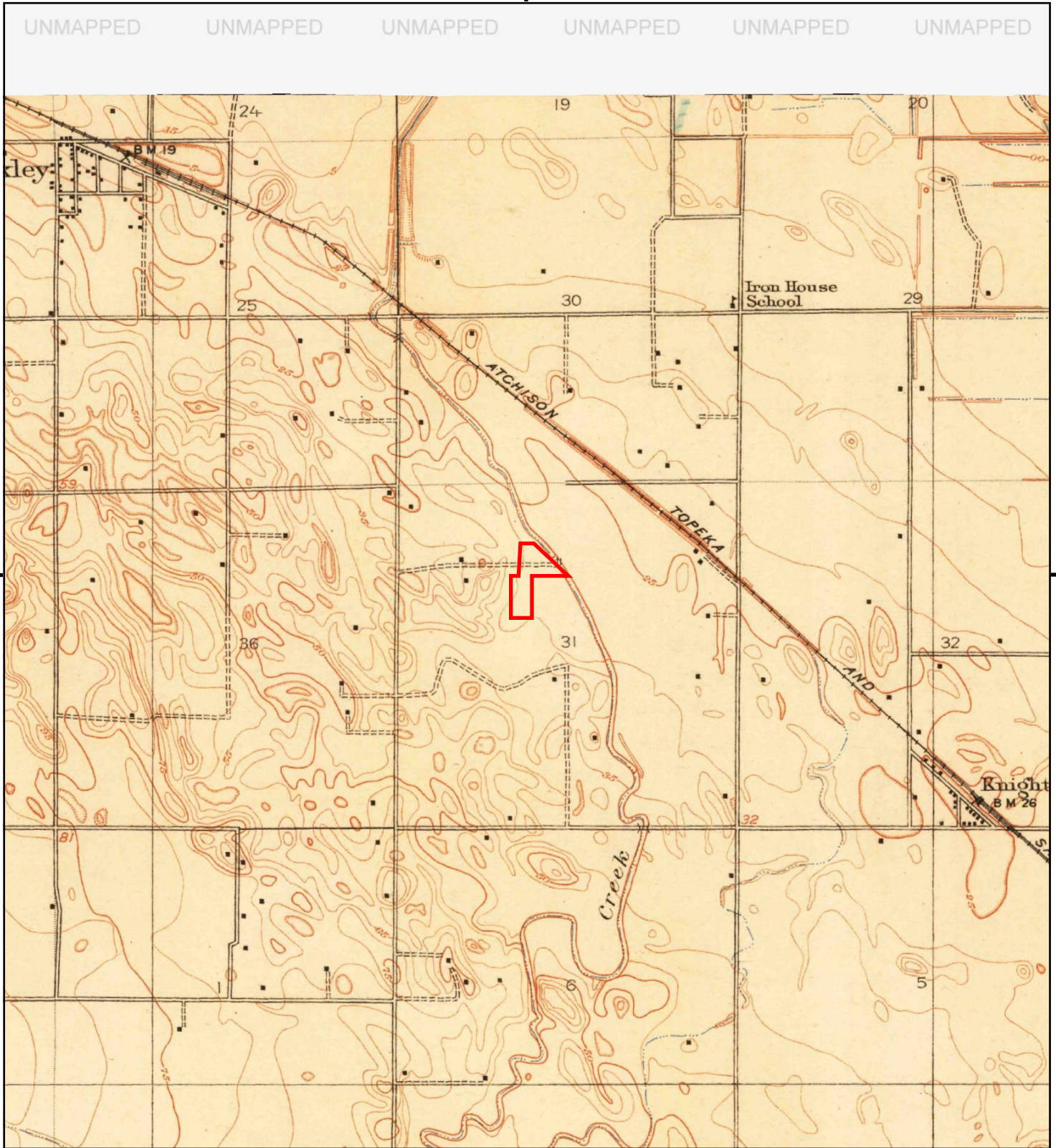
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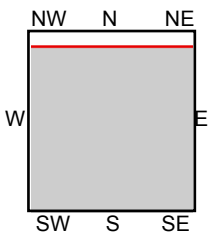
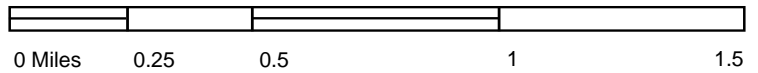
TP, Byron, 1916, 15-minute

SITE NAME: Vacant Properties
ADDRESS: 463 & 560 Honey Lane
Oakley, CA 94561
CLIENT: GeoSolve





This report includes information from the following map sheet(s).



TP, Brentwood, 1914, 7.5-minute

SITE NAME: Vacant Properties
ADDRESS: 463 & 560 Honey Lane
 Oakley, CA 94561
CLIENT: GeoSolve



Vacant Properties

463 & 560 Honey Lane
Oakley, CA 94561

Inquiry Number: 6371926.7
February 19, 2021

EDR Environmental Lien and AUL Search

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

463 & 560 Honey Lane
Vacant Properties
Oakley, CA 94561

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found Not Found

RESEARCH SOURCE

Source 1:

Contra Costa Recorder
Contra Costa, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed: deed
Title is vested in: Angela J Angeles
Title received from: Trinidad C & Angela J Angeles
Deed Dated: 8/20/2010
Deed Recorded: 9/3/2010
Book: NA
Page: na
Volume: na
Instrument: na
Docket: NA
Land Record Comments:
Miscellaneous Comments:

Legal Description: See Exhibit

Legal Current Owner: Angela J Angeles

Parcel # / Property Identifier: 033-030-028-6

Comments: See Exhibit

Deed Exhibit 1

5

RECORDING REQUESTED BY
North American Title Company, Inc.

AND WHEN RECORDED MAIL DOCUMENT TO:
Angela J Angeles
463 Honey Lane
Oakley, CA 94561



CONTRA COSTA Co Recorder Office
STEPHEN L. WEIR, Clerk-Recorder
DOC- 2010-0186911-00

Acct 9-North American Title
Friday, SEP 03, 2010 08:00:00
S38 \$10.00:MOD \$5.00:REC \$15.00
FTC \$4.00:RED \$1.00:ERD \$1.00
Ttl Pd \$36.00 Nbr-0000580306
MNH/R2/1-5

Space Above This Line for Recorder's Use Only

A.P.N.: 033-030-028-6

File No.: 54709-1003151-10 (NAT)

INTERSPOUSAL TRANSFER GRANT DEED

(Excluded from Reappraisal under California Constitution Article 13A 1 et seq.)

The Undersigned Grantor(s) declare(s): DOCUMENTARY TRANSFER TAX \$-0-; CITY TRANSFER TAX \$-0-;
SURVEY MONUMENT FEE \$-0-

This conveyance is solely between spouses and establishes the sole and separate property of a spouse and is EXEMPT from the imposition of the Documentary Transfer Tax pursuant to Section 11930 and/or 11911 et seq. of the Revenue and Taxation Code.

This is an Interspousal Transfer and not a change in ownership under Section 63 of the Revenue and Taxation Code, and transfer by Grantor(s) is excluded from reappraisal as a creation, transfer, solely between the spouses of any co-owner's interest.

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **Trinidad C Angeles and Angela J Angeles, Husband and Wife as Joint Tenants**


hereby GRANTS to **Angela J Angeles, an unmarried woman**

the following described property in the City of **Oakley**, County of **Contra Costa**, State of **California**:

See Exhibit A attached hereto for legal description.

It is the express intent of the Grantor, being the spouse of the Grantee, to convey all right, title and interest of the Grantor, community or otherwise, in and to the herein described property to the Grantee as his/her sole and separate property.

Dated: 08/20/2010



Trinidad C Angeles



Angela J Angeles

Mail Tax Statements To: **SAME AS ABOVE**

STATE OF California)SS
COUNTY OF Contra Costa)

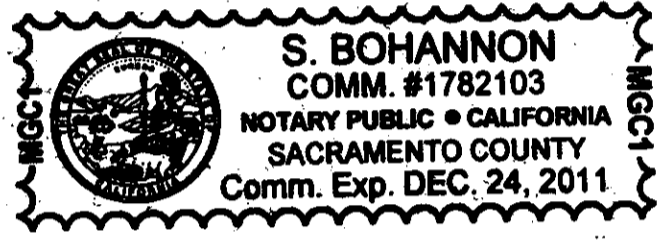
On 20 Aug 2010, before me, S. Bohannon, Notary Public, personally appeared Trinidad C. Angeles

Trinidad C. Angeles, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature
S. Bohannon



My Commission Expires: _____

This area for official notarial seal

Notary Name: _____

Notary Phone: _____

Notary Registration Number: _____

County of Principal Place of Business: _____

STATE OF California)SS
COUNTY OF Contra Costa)

On 1 Sept 2010 before me, S Bohannon, Notary Public, personally appeared Angela J Angeles

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature S Bohannon



My Commission Expires: _____

This area for official notarial seal

Notary Name: _____
Notary Registration Number: _____

Notary Phone: _____
County of Principal Place of Business: _____

EXHIBIT A

PARCEL ONE:

PARCEL "B", PARCEL MAP MS-62-75, FILED OCTOBER 25, 1977, IN BOOK 58 OF PARCEL MAPS, PAGES 46 AND 47, CONTRA COSTA COUNTY RECORDS.

EXCEPTING THEREFROM:

CLYDE CLAPP, AS A SINGLE MAN, AS TO AN UNDIVIDED 1/3 INTEREST; DELORES G. BLOODWORTH, AN UNMARRIED WOMAN, AS TO AN UNDIVIDED 1/3 INTEREST; AND LARRY L. LINDSEY AND PATRICIA A. LINDSEY, HIS WIFE, AS TO AN UNDIVIDED 1/3 INTEREST, ALL OIL, GAS, CASINGHEAD GASOLINE AND OTHER HYDROCARBONS AND MINERAL SUBSTANCES BELOW A POINT 500 FEET BELOW THE SURFACE OF SAID LANDS, TOGETHER WITH THE RIGHT TO TAKE, REMOVE, MINE, PASS THROUGH AND DISPOSE OF ALL SAID OIL, GAS, CASINGHEAD GASOLINE AND OTHER MINERAL SUBSTANCES, BUT WITHOUT ANY RIGHT WHATSOEVER TO ENTER UPON THE SURFACE OF SAID LAND.

PARCEL TWO:

A NON-EXCLUSIVE EASEMENT FOR ROADWAY, UTILITY PURPOSES AND DRAINAGE OVER, UNDER, ALONG AND ACROSS THOSE PORTIONS OF PARCELS A, C AND D LYING WITHIN THE 30 FOOT STRIP OF LAND DEDICATED TO THE COUNTY OF CONTRA COSTA COUNTY.

PARCEL THREE:

A NON-EXCLUSIVE RIGHT OF WAY AS AN APPURTENANCE TO THE PARCEL OF LAND DESCRIBED AS PARCEL ONE IN THE DEED TO DONALD G. SCHANZ, ET UX, RECORDED AUGUST 3, 1962 IN BOOK 4174, OFFICIAL RECORDS, PAGE 375, OR ANY PORTION THEREOF, FOR USE AS A ROADWAY FOR VEHICLES OF ALL KINDS, PEDESTRIANS AND ANIMALS, FOR WATER, GAS, OIL AND SEWER PIPE LINES, AND FOR TELEPHONE, ELECTRICAL LIGHT AND POWER LINES, TOGETHER WITH THE NECESSARY POLES OR CONDUITS, OVER THE SOUTH 15 FEET, RIGHT ANGLE MEASUREMENTS OF THE SOUTH 1/2 OF THE SOUTH 1/2 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 2 NORTH, RANGE 3 EAST, MOUNT DIABLO BASE AND MERIDIAN.

PARCEL FOUR:

A NON-EXCLUSIVE RIGHT OF WAY, AS AN APPURTENANT TO THE PARCEL OF LAND DESCRIBED AS PARCEL ONE IN THE DEED TO DONALD G. SCHANZ, ET UX, RECORDED AUGUST 3, 1962, BOOK 4174, OFFICIAL RECORDS, PAGE 375, OR ANY PORTION THEREOF, FOR USE AS A ROADWAY FOR VEHICLES OF ALL KINDS, PEDESTRIANS AND ANIMALS, FOR WATER, GAS, OIL AND SEWER PIPE LINES, AND FOR TELEPHONE, ELECTRIC LIGHT AND POWER LINES, TOGETHER WITH THE NECESSARY POLES OR CONDUITS, OVER THE NORTH 15 FEET, RIGHT ANGLE MEASUREMENTS OF THE NORTH 1/2 OF THE NORTH 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 2 NORTH, RANGE 3 EAST, MOUNT DIABLO BASE AND MERIDIAN.

PARCEL FIVE:

AN EASEMENT (NOT TO BE EXCLUSIVE) AS AN APPURTENANCE TO PARCEL ONE ABOVE FOR USE AS A ROADWAY FOR VEHICLES OF ALL KINDS, PEDESTRIANS AND ANIMALS, AND AS A RIGHT OF WAY FOR WATER, GAS, OIL AND SEWER PIPE LINES, AND FOR TELEVISION, TELEPHONE, ELECTRIC LIGHT AND POWER LINES, TOGETHER WITH THE NECESSARY POLES OR CONDUITS TO CARRY SAID LINES OVER THE SOUTH 30 FEET OF A RIGHT ANGLE MEASUREMENT OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 31, TOWNSHIP 2 NORTH, RANGE 3 EAST, MOUNT DIABLO BASE AND MERIDIAN.

END OF DOCUMENT

Vacant Properties

463 & 560 Honey Lane
Oakley, CA 94561

Inquiry Number: 6371926.6
February 18, 2021

The EDR Property Tax Map Report

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

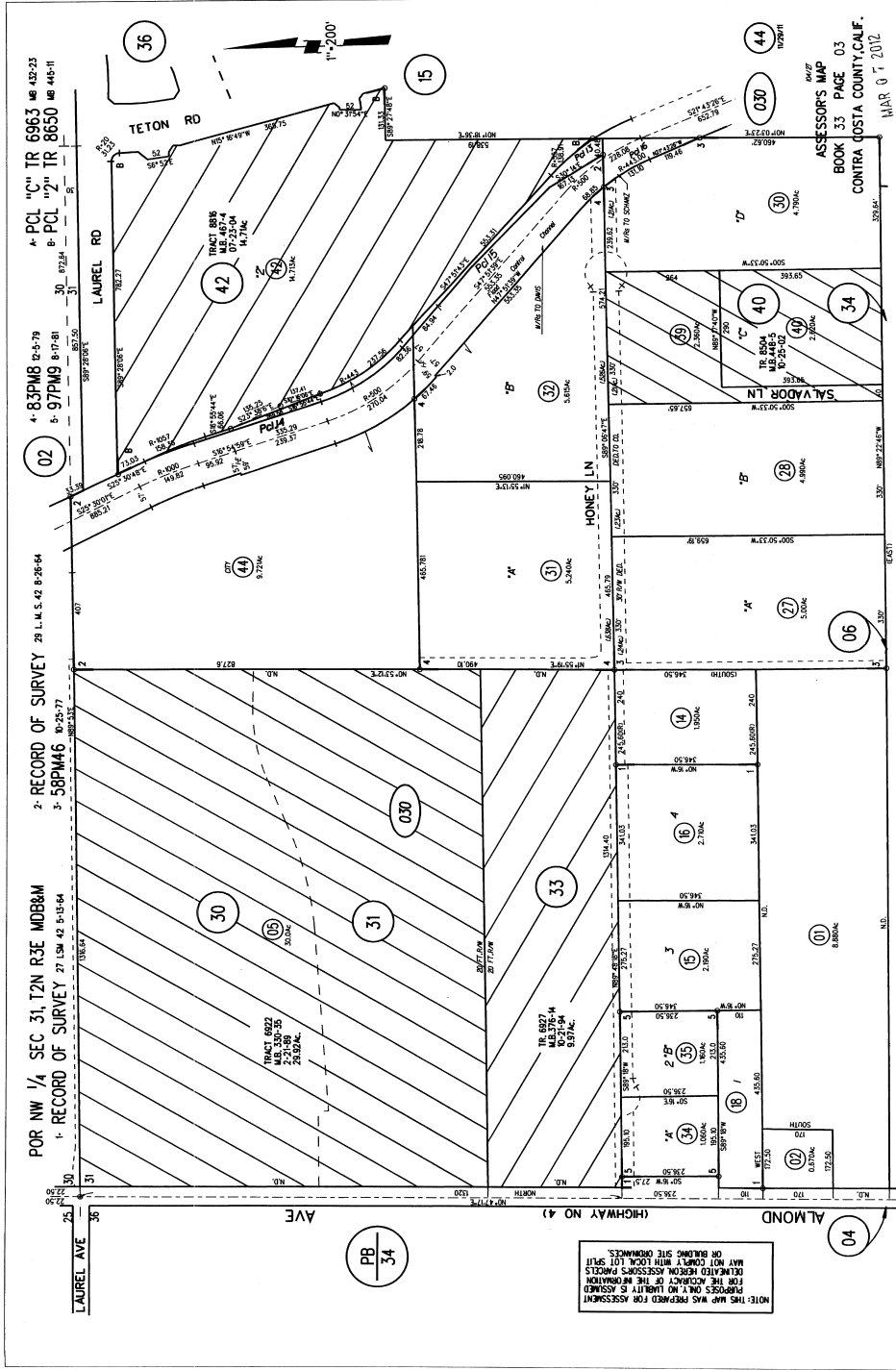
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Vacant Properties

463 & 560 Honey Lane

Oakley, CA 94561

Inquiry Number: 6371926.3

February 18, 2021

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

02/18/21

Site Name:

Vacant Properties
463 & 560 Honey Lane
Oakley, CA 94561
EDR Inquiry # 6371926.3

Client Name:

GeoSolve
1807 Santa Rita Road
Pleasanton, CA 94566-0000
Contact: Robert Campbell



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by GeoSolve 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 # CCCE-4000-91EE
PO # 2021-03
Project 2021-03

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 #: CCCE-4000-91EE

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Vacant Properties

463 & 560 Honey Lane
Oakley, CA 94561

Inquiry Number: 6371926.8
February 18, 2021

EDR Building Permit Report

Target Property and Adjoining Properties

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Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting 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), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.



EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of GeoSolve on Feb 18, 2021.

TARGET PROPERTY

463 & 560 Honey Lane
Oakley, CA 94561

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Oakley

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>
2019	City of Oakley, Building and Code Enforcement Divisio		X
2018	City of Oakley, Building and Code Enforcement Divisio		X
2017	City of Oakley, Building and Code Enforcement Divisio		X
	City of Oakley, Building and Code Enforcement Divisio	X	
2016	City of Oakley, Building and Code Enforcement Divisio		X
2015	City of Oakley, Building and Code Enforcement Divisio		X
2014	City of Oakley, Building and Code Enforcement Divisio		X
2013	City of Oakley, Building and Code Enforcement Divisio		
2012	City of Oakley, Building and Code Enforcement Divisio		
2011	City of Oakley, Building and Code Enforcement Divisio		X
2010	City of Oakley, Building and Code Enforcement Divisio		X
2009	City of Oakley, Building and Code Enforcement Divisio		X
2008	City of Oakley, Building and Code Enforcement Divisio		X
2007	City of Oakley, Building and Code Enforcement Divisio		X
2006	City of Oakley, Building and Code Enforcement Divisio		X
2005	City of Oakley, Building and Code Enforcement Divisio		X
2004	City of Oakley, Building and Code Enforcement Divisio		X
2003	City of Oakley, Building and Code Enforcement Divisio		X
2002	City of Oakley, Building and Code Enforcement Divisio		
2001	City of Oakley, Building and Code Enforcement Divisio		X
2000	City of Oakley, Building and Code Enforcement Divisio		
1999	City of Oakley, Building and Code Enforcement Divisio		
1998	City of Oakley, Building and Code Enforcement Divisio		
1997	City of Oakley, Building and Code Enforcement Divisio		
1996	City of Oakley, Building and Code Enforcement Divisio		
1995	City of Oakley, Building and Code Enforcement Divisio		
1994	City of Oakley, Building and Code Enforcement Divisio		
1993	City of Oakley, Building and Code Enforcement Divisio		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>
1992	City of Oakley, Building and Code Enforcement Divisio		
1991	City of Oakley, Building and Code Enforcement Divisio		
1990	City of Oakley, Building and Code Enforcement Divisio		
1989	City of Oakley, Building and Code Enforcement Divisio		
1988	City of Oakley, Building and Code Enforcement Divisio		
1987	City of Oakley, Building and Code Enforcement Divisio		
1986	City of Oakley, Building and Code Enforcement Divisio		
1985	City of Oakley, Building and Code Enforcement Divisio		
1984	City of Oakley, Building and Code Enforcement Divisio		
1983	City of Oakley, Building and Code Enforcement Divisio		
1982	City of Oakley, Building and Code Enforcement Divisio		
1981	City of Oakley, Building and Code Enforcement Divisio		
1980	City of Oakley, Building and Code Enforcement Divisio		
1979	City of Oakley, Building and Code Enforcement Divisio		
1978	City of Oakley, Building and Code Enforcement Divisio		
1977	City of Oakley, Building and Code Enforcement Divisio		
1976	City of Oakley, Building and Code Enforcement Divisio		

Contra Costa County

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>
2021	Contra Costa County, Public Works Services		
2020	Contra Costa County, Public Works Services		
2019	Contra Costa County, Public Works Services		
2018	Contra Costa County, Public Works Services		
2017	Contra Costa County, Public Works Services		
2016	Contra Costa County, Public Works Services		
2015	Contra Costa County, Public Works Services		
2014	Contra Costa County, Public Works Services		
2013	Contra Costa County, Public Works Services		
2012	Contra Costa County, Public Works Services		
2011	Contra Costa County, Public Works Services		
2010	Contra Costa County, Public Works Services		
2009	Contra Costa County, Public Works Services		
2008	Contra Costa County, Public Works Services		
2007	Contra Costa County, Public Works Services		
2006	Contra Costa County, Public Works Services		
2005	Contra Costa County, Public Works Services		
2004	Contra Costa County, Public Works Services		
2003	Contra Costa County, Public Works Services		
2002	Contra Costa County, Public Works Services		
2001	Contra Costa County, Public Works Services		
2000	Contra Costa County, Public Works Services		
1999	Contra Costa County, Public Works Services	X	
1998	Contra Costa County, Public Works Services		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>
1997	Contra Costa County, Public Works Services		
1996	Contra Costa County, Public Works Services		X
1995	Contra Costa County, Public Works Services		X
1994	Contra Costa County, Public Works Services		
1993	Contra Costa County, Public Works Services		
1992	Contra Costa County, Public Works Services		
1991	Contra Costa County, Public Works Services		
1990	Contra Costa County, Public Works Services		
1989	Contra Costa County, Public Works Services		
1988	Contra Costa County, Public Works Services		
1987	Contra Costa County, Public Works Services		
1986	Contra Costa County, Public Works Services		
1985	Contra Costa County, Public Works Services		
1984	Contra Costa County, Public Works Services		
1983	Contra Costa County, Public Works Services		
1982	Contra Costa County, Public Works Services		
1981	Contra Costa County, Public Works Services		
1980	Contra Costa County, Public Works Services		
1979	Contra Costa County, Public Works Services		
1978	Contra Costa County, Public Works Services		
1977	Contra Costa County, Public Works Services		
1976	Contra Costa County, Public Works Services		
1975	Contra Costa County, Public Works Services		
1974	Contra Costa County, Public Works Services		
1973	Contra Costa County, Public Works Services		
1972	Contra Costa County, Public Works Services		
1971	Contra Costa County, Public Works Services		
1970	Contra Costa County, Public Works Services		
1969	Contra Costa County, Public Works Services		
1968	Contra Costa County, Public Works Services		
1967	Contra Costa County, Public Works Services		
1966	Contra Costa County, Public Works Services		
1965	Contra Costa County, Public Works Services		
1964	Contra Costa County, Public Works Services		
1963	Contra Costa County, Public Works Services		
1962	Contra Costa County, Public Works Services		
1961	Contra Costa County, Public Works Services		
1960	Contra Costa County, Public Works Services		
1959	Contra Costa County, Public Works Services		
1958	Contra Costa County, Public Works Services		
1957	Contra Costa County, Public Works Services		
1956	Contra Costa County, Public Works Services		
1955	Contra Costa County, Public Works Services		
1954	Contra Costa County, Public Works Services		
1953	Contra Costa County, Public Works Services		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>
1952	Contra Costa County, Public Works Services		
1951	Contra Costa County, Public Works Services		
1950	Contra Costa County, Public Works Services		
1949	Contra Costa County, Public Works Services		
1948	Contra Costa County, Public Works Services		
1947	Contra Costa County, Public Works Services		
1946	Contra Costa County, Public Works Services		
1945	Contra Costa County, Public Works Services		
1944	Contra Costa County, Public Works Services		
1943	Contra Costa County, Public Works Services		
1942	Contra Costa County, Public Works Services		
1941	Contra Costa County, Public Works Services		
1940	Contra Costa County, Public Works Services		
1939	Contra Costa County, Public Works Services		
1938	Contra Costa County, Public Works Services		

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Contra Costa County
Years: 1938-2021
Source: Contra Costa County, Public Works Services, Martinez, CA
Phone: (925) 335-1360

Name: Oakley
Years: 1976-2019
Source: City of Oakley, Building and Code Enforcement Division, OAKLEY, CA
Phone: (925) 625-7000

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

**463 & 560 Honey Lane
Oakley, CA 94561**

463 HONEY LN

Date: **9/7/2017**
Permit Type:
Description: **HVAC-AC ONLY**
Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2017-1340**
Status:
Valuation: **\$2,475.00**
Contractor Company:
Contractor Name: **ECO SYSTEMS**

Date: **6/2/1999**
Permit Type: **Building/Manufactured Home/MH/Setup**
Description: **MOBILE HOME SET-UP**
Permit Description:
Work Class: **Setup**
Proposed Use:
Permit Number: **BIMH0000236194**
Status: **Finaled**
Valuation: **\$0.00**
Contractor Company:
Contractor Name:

TARGET PROPERTY FINDINGS

Date:

Permit Type:

Description:

Permit Description:

Work Class:

Proposed Use:

Permit Number: BIRF920129

Status:

Valuation: \$0.00

Contractor Company:

Contractor Name:

Date:

Permit Type:

Description:

Permit Description:

Work Class:

Proposed Use:

Permit Number: BIRF980294

Status:

Valuation: \$0.00

Contractor Company:

Contractor Name:

Date:

Permit Type:

Description:

Permit Description:

Work Class:

Proposed Use:

Permit Number: CDLP98-02014

Status:

Valuation: \$0.00

Contractor Company:

Contractor Name:

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

AMADOR CT

110 AMADOR CT

Date: **7/27/2004**
Permit Type: **Residential Pool/Spa**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2004-0735
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

Date: **2/5/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0134
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

112 AMADOR CT

Date: **8/12/2011**
Permit Type: **solar**
Description: **SOLAR PHOTOVOLTAIC**

Permit Description: **PHOTO VOLTAIC/SOLAR PANEL**
Work Class:
Proposed Use:
Permit Number: **BLD-2011-2037**
Status: **final**
Valuation: **\$5,000.00**
Contractor Company:
Contractor Name: **DIABLO SOLAR SERVICES**

Date: **10/1/2010**
Permit Type: **r3rep**
Description: **CONVERTING 3RD GARAGE TO OFFICE**

Permit Description: **R3 Misc Rep/Alterations/T-rep**
Work Class:
Proposed Use:
Permit Number: **BLD-2010-1086**
Status: **final**
Valuation: **\$500.00**
Contractor Company:
Contractor Name: **SAITZ**

Date: **3/25/2008**
Permit Type: **r3rep**
Description: **OUTSIDE BATHROOM-46.5 SQ FT.**

Permit Description: **R3 Misc Rep/Alterations/T-rep**
Work Class:
Proposed Use:
Permit Number: **BLD-2008-0268**
Status:
Valuation: **\$0.00**
Contractor Company:
Contractor Name: **SAITZ**

ADJOINING PROPERTY FINDINGS

Date: **10/19/2006**
Permit Type:
Description: **INSTALL RESIDENTIAL SPA ON CONCRETE SLAB**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2004-1250
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: ANDREW SAITZ

Date: **5/12/2005**
Permit Type: **R3 Patio Cover**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2005-0476
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: ANDREW SAITZ

Date: **10/13/2004**
Permit Type: **Residential Pool/Spa**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2004-1091
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **6/19/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0133
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

114 AMADOR CT

Date: **6/15/2017**
Permit Type:
Description: **SOLAR**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2017-0816
Status:
Valuation: \$5,000.00
Contractor Company:
Contractor Name: PETERSEN-DEAN INC

Date: **6/19/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0132
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

116 AMADOR CT

Date: **8/9/2005**
Permit Type: **R3 Patio Cover**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2005-1030
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: FIDEL MARTINEZ

Date: **6/19/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0131
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

118 AMADOR CT

Date: **11/18/2004**
Permit Type: **Plumbing**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2004-1263
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: JOSE IBARRA

Date: **11/16/2004**
Permit Type: **Residential Pool/Spa**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2004-1181
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: JOSE IBARRA

Date: **6/19/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0130
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

119 AMADOR CT

Date: **7/11/2003**
Permit Type: **Retaining/Sound Walls**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0679
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

Date: **2/5/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0107
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

120 AMADOR CT

Date: **6/19/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0129
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

121 AMADOR CT

Date: **5/14/2018**
Permit Type:
Description: **SOLAR**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2018-0711
Status:
Valuation: \$5,000.00
Contractor Company:
Contractor Name: TESLA ENERGY OPERATIONS, INC.

ADJOINING PROPERTY FINDINGS

Date: **2/5/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0125
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

122 AMADOR CT

Date: **6/19/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0128
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

123 AMADOR CT

Date: **7/13/2015**

Permit Type:

Description: **SOLAR**

Permit Description:

Work Class:

Proposed Use:

Permit Number: BLD-2015-0892

Status:

Valuation: \$5,000.00

Contractor Company:

Contractor Name: HIGH DEFINITION SOLAR

Date: **7/2/2015**

Permit Type:

Description: **HVAC-FURNACE AND AC**

Permit Description:

Work Class:

Proposed Use:

Permit Number: BLD-2015-0896

Status:

Valuation: \$16,000.00

Contractor Company:

Contractor Name: SERVICE CHAMPIONS

Date: **10/27/2004**

Permit Type: **Residential Pool/Spa**

Description:

Permit Description:

Work Class:

Proposed Use:

Permit Number: BLD-2004-1107

Status:

Valuation: \$0.00

Contractor Company:

Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/5/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0126
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

124 AMADOR CT

Date: **6/19/2003**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0127
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

CRATER LAKE CT

110 CRATER LAKE CT

Date: 1/12/2007
Permit Type:
Description: **BONUS ROOM TO A BEDROOM**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2007-0025
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

Date: 4/28/2005
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2005-0037
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

112 CRATER LAKE CT

Date: **4/28/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2005-0038**
Status:
Valuation: **\$0.00**
Contractor Company:
Contractor Name:

CREEKSIDE WAY

3887 CREEKSIDE WAY

Date: **8/14/2017**
Permit Type:
Description: **HVAC-AC ONLY**

Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2017-1205**
Status:
Valuation: **\$6,500.00**
Contractor Company:
Contractor Name: **PETE'S HVAC & PATIO COVERS**

ADJOINING PROPERTY FINDINGS

Date: **2/5/1996**
Permit Type: **Building/Residential/E/Misc. Electrical**
Description: **ELECTRICAL FOR SPA**

Permit Description:
Work Class: Misc. Electrical
Proposed Use:
Permit Number: BIE0000206324
Status: Finaled
Valuation: \$0.00
Contractor Company:
Contractor Name:

Date: **8/3/1995**
Permit Type: **Building/Residential/R/New Single Family-Duplex**
Description: **TRACT 6927,PLAN 240,3 CAR**

Permit Description:
Work Class: New Single Family-Duplex
Proposed Use:
Permit Number: BIR0000202303
Status: Finaled
Valuation: \$175,177.00
Contractor Company:
Contractor Name:

3891 CREEKSIDE WAY

Date: **9/16/2019**
Permit Type:
Description: **FRENCH DOOR- STARTED PRIOR TO PERMIT**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2019-1341
Status:
Valuation: \$600.00
Contractor Company:
Contractor Name: KENNETH SPOSITO

ADJOINING PROPERTY FINDINGS

Date: **8/9/2019**
Permit Type:
Description: **RE-INSPECTION FEE BLD-2019-1097**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2019-1175
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: FREEDOM FOREVER LLC

Date: **7/31/2019**
Permit Type:
Description: **SOLAR WITH PANEL UPGRADE**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2019-1097
Status:
Valuation: \$5,000.00
Contractor Company:
Contractor Name: FREEDOM FOREVER LLC

Date: **10/23/1995**
Permit Type: **Building/Residential/R/New Single Family-Duplex**
Description: **TRACT 6927,PLAN 220,3 CAR**

Permit Description:
Work Class: New Single Family-Duplex
Proposed Use:
Permit Number: BIR0000204344
Status: Finaled
Valuation: \$165,350.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **2/7/1995**
Permit Type: **Building/Commercial/EC/Electrical**
Description: **POWER POLE FOR CONST. TRAILER**

Permit Description:
Work Class: Electrical
Proposed Use:
Permit Number: BIEC0000198612
Status: Finaled
Valuation: \$0.00
Contractor Company:
Contractor Name:

3900 CREEKSIDE WAY

Date: **4/16/2015**
Permit Type:
Description: **BULLETIN BOARD - CREEKSIDE PARK, NO FEE PERMIT**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2015-0414
Status:
Valuation: \$600.00
Contractor Company:
Contractor Name: CITY OF OAKLEY

Date: **6/10/2009**
Permit Type: **pcvr**
Description: **30 X 50 METAL SHADE COVER-BUILT PRIOR TO ISSUANCE OF PERMIT**

Permit Description: **R3 Patio Cover**
Work Class:
Proposed Use:
Permit Number: BLD-2009-0744
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: RADBACK ENERGY

ADJOINING PROPERTY FINDINGS

Date: **4/14/2009**
Permit Type: **c-misc**
Description: **PRE-FAB RESTROOM BUILDING**

Permit Description: **Commercial Misc**
Work Class:
Proposed Use:
Permit Number: BLD-2009-0473
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: WALKER CONSTRUCTION

Date: **6/23/2008**
Permit Type: **elect**
Description: **ELECTRIC METER PEDESTAL**

Permit Description: **Electrical**
Work Class:
Proposed Use:
Permit Number: BLD-2008-0734
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: GOODLAND LANSCAPE CONSTRUCTION

ADJOINING PROPERTY FINDINGS

GRAND CANYON CIR

48 GRAND CANYON CIR

Date: **11/10/2014**
Permit Type:
Description: **SOLAR**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2014-1391
Status:
Valuation: \$5,000.00
Contractor Company:
Contractor Name: VIVINT SOLAR

Date: **11/6/2008**
Permit Type: **sfr-s**
Description: **NEW SINGAL FAMILY RESIDENCE**
***** RENEWAL OF PERMIT # BLD-2005-1711 & 2007-1563*****

Permit Description: **Single Family Residence-Slab Floor**
Work Class:
Proposed Use:
Permit Number: BLD-2008-1217
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: HAWKEYE BUILDERS INC

ADJOINING PROPERTY FINDINGS

Date: **12/12/2007**
Permit Type:
Description: **NEW SINGAL FAMILY RESIDENCE**
***** RENEWAL OF PERMIT # BLD-2005-1711 *****

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2007-1563
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

Date: **12/21/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2005-1711
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

50 GRAND CANYON CIR

Date: **12/21/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2005-1712**
Status:
Valuation: **\$0.00**
Contractor Company:
Contractor Name:

52 GRAND CANYON CIR

Date: **8/25/2016**
Permit Type:
Description: **SOLAR**

Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2016-1117**
Status:
Valuation: **\$5,000.00**
Contractor Company:
Contractor Name: **SUNRUN-SACRAMENTO**

ADJOINING PROPERTY FINDINGS

Date: **11/6/2008**
Permit Type: **sfr-s**
Description: **NEW SINGLE FAMILY RESIDENCE**
***** RENEWAL OF PERMIT # BLD-2005-1713 & 2007-1565*****

Permit Description: **Single Family Residence-Slab Floor**
Work Class:
Proposed Use:
Permit Number: BLD-2008-1219
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: HAWKEYE BUILDERS INC

Date: **12/12/2007**
Permit Type:
Description: **NEW SINGLE FAMILY RESIDENCE**
***** RENEWAL OF PERMIT # BLD-2005-1713*****

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2007-1565
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

Date: **12/21/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2005-1713
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

54 GRAND CANYON CIR

Date: **12/21/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2005-1714**
Status:
Valuation: **\$0.00**
Contractor Company:
Contractor Name:

56 GRAND CANYON CIR

Date: **4/28/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2005-0031**
Status:
Valuation: **\$0.00**
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

58 GRAND CANYON CIR

Date: **4/28/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2005-0032
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

60 GRAND CANYON CIR

Date: **4/28/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2005-0033
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

62 GRAND CANYON CIR

Date: **4/28/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2005-0034**
Status:
Valuation: **\$0.00**
Contractor Company:
Contractor Name:

64 GRAND CANYON CIR

Date: **4/28/2005**
Permit Type: **Single Family Residence-Slab Floor**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: **BLD-2005-0035**
Status:
Valuation: **\$0.00**
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

HONEY LN

361 HONEY LN

Date: **3/11/2015**
Permit Type:
Description: **WATER HEATER**

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2015-0267
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name: HENSON PLUMBING SERVICE

Date: **6/27/2001**
Permit Type: **Residential Pool/Spa**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2001-0603
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

555 HONEY LN

Date: **9/2/2003**
Permit Type: **Residential HVAC Replacement**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-0948
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

SALVADOR LN

4710 SALVADOR LN

Date: **11/13/2003**
Permit Type: **Electrical**
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number: BLD-2003-1216
Status:
Valuation: \$0.00
Contractor Company:
Contractor Name:

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeyman:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000

Permit Type: Bldg -

New Permit Number: 101000000405

Status: Valuation: \$1,000,000.00

Contractor Company: OWNER-BUILDER

Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

Vacant Properties

463 & 560 Honey Lane
Oakley, CA 94561

Inquiry Number: 6371926.5
February 18, 2021

The EDR-City Directory Image Report

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SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1994	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
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 type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1975	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

463 & 560 Honey Lane
Oakley, CA 94561

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

HONEY 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	
1994	pg A6	Haines Criss-Cross Directory	
1990	pg A7	Haines Criss-Cross Directory	
1985	pg A8	Haines Criss-Cross Directory	
1980	-	Haines Criss-Cross Directory	Target and Adjoining not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

HONEY LN 2017

47	ESPINDOLA, RICARDO L
125	COSTENBADER, MATTHEW R
150	OQUENDO, TULIO D
200	HOOD, LINDA A
209	MALLET, FRANK W
240	HARRIS, JAMES Z
264	FRICK, BOBBY L
283	JOHNSTON, KENNETH D
463	HAURY, ROCH
555	AMADOR, DONALD C
637	JONES, RONALD W

HONEY LN 2014

43 ESPINDOLA, MIGUEL
47 OCCUPANT UNKNOWN,
87 JUAREZ, BERTHA
88 OCCUPANT UNKNOWN,
125 OCCUPANT UNKNOWN,
150 SCALISE, MATTHEW
200 HOOD, LINDA A
209 BAKER, DARREL I
240 HARRIS, JAMES Z
264 FRICK, BOBBY L
283 JOHNSTON, KENNETH D
463 MILLER CHIROPRACTIC
555 AMADOR, DONALD C

HONEY LN 2010

43	ESPINDOLA, MIGUEL
47	ESPINDOLA, RICARDO L
87	OSCAR, GAXIOLA
88	NAVARRO, LOURDES
125	FLUX MAGNETICS ORTON, GREGORY A
150	AIR SPACE ONE HEATING & AC OCCUPANT UNKNOWN,
200	HOOD, JOEL D
209	MALLET, FRANK W
240	HARRIS, JAMES Z
264	FRICK, BOBBY L
283	JOHNSTON, KENNETH D
555	AMADOR, DONALD C
637	CLANCY, LINDA S

HONEY LN 2005

5 HARDCASTLE, DOUG F
43 ESPINDOLA, MIGUEL
47 ESPINOLA, MARIA
87 TOLEDO, GILBERTO
88 NAVARRO, LOURDES
125 ORTON, GREGORY A
150 MAGOON, RANDALL E
200 HOOD, LINDA A
209 BAKER, DARREL I
240 OCCUPANT UNKNOWN,
264 FRICK, BOBBY L
283 JOHNSTON, KENNETH D
361 OCCUPANT UNKNOWN,
463 ANGELES, TRINIDAD C
555 AMADOR, DONALD C
637 OCCUPANT UNKNOWN,

HONEY LN 2000

5 HARDCASTLE, DOUG
43 ESPINDOLA, J R
87 OCCUPANT UNKNOWN,
125 ORTON, GREGORY A
150 SCHUMANN, JAKE M
200 KENDRICK, J
209 BAKER, C S
240 RYAN, GARY A
264 FRICK, BOBBY
283 JOHNSTON, KENNETH
463 LOPEZ, SAMUEL
555 AMADO, ELLEN
560 OCCUPANT UNKNOWN,
637 BROWN, LELAND J

HONEY LN 1994

HONEY LN 94561
OAKLEY

WEALTH CODE 3

5	HARDCASTLE Doug	625-0401	3
125	XXXX	00	
283	JOHNSTON Joyce	625-1928	+4
	JOHNSTON Kenneth	625-1928	+4
637	ANDERSON D	625-3319	3
★	0 BUS	5 RES	2 NEW

HONEY LN 1990

HONEY LN 94561 OAKLEY

5	HARDCASTLE Doug	625-0401	2
NO #	AMADOR Donald	625-2551	5
NO #	ANDERSON Bill	625-9919	
NO #	JOHNSTON Joyce	625-1928	
NO #	JOHNSTON Kenneth	625-1928	
NO #	PRINGLE Charles	625-1979	
★	0 BUS	6 RES	0 NEW

HONEY LN 1985

HONEY LN 94561 OAKLEY

S	HARDCASTLE DOUG	625-0401	2
NO #	AMADOR DONALD	625-2551	+5
NO #	ANDERSON BILL	625-3319	0
NO #	JOHNSTON KENNETH	625-1928	2
NO #	RHOADS BARBARA	625-1083	4
NO #	RHOADS JERRY	625-2016	3
★	0 BUS	6 RES	1 NEW

EDR RADIUS MAP WITH GEOCHECK



Vacant Properties

463 & 560 Honey Lane
Oakley, CA 94561

Inquiry Number: 6371926.2s
February 18, 2021

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

463 & 560 HONEY LANE
OAKLEY, CA 94561

COORDINATES

Latitude (North): 37.9797010 - 37° 58' 46.92"
Longitude (West): 121.6894120 - 121° 41' 21.88"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 615103.2
UTM Y (Meters): 4204167.5
Elevation: 32 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:
463 & 560 HONEY LANE
OAKLEY, CA 94561

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	AMADOR SUBDIVISION 8	SALVADOR LANE AND AM	CIWQS	Higher	3, 0.001,
2	SIGNATURE HOMES	5360 MAIN ST	RCRA NonGen / NLR	Higher	935, 0.177, WSW
A3	COOKS BATTERY SITE	138 HILL AVE.	SEMS-ARCHIVE, LEAD SMELTERS	Higher	1363, 0.258, SSW
A4	COOK'S BATTERY	139 HILL AVENUE	US BROWNFIELDS	Higher	1472, 0.279, SSW
A5	COOK BATTERY (OAKLEY	139 HILL AVENUE	RESPONSE, ENVIROSTOR, CPS-SLIC, HIST Cal-Sites,...	Higher	1472, 0.279, SSW
A6	COOK BATTERY RECLAMA	139 HILL AVENUE	CPS-SLIC, CA BOND EXP. PLAN	Higher	1472, 0.279, SSW
7	BAY AREA AUTO SALES	5600 MAIN STREET	US BROWNFIELDS, FINDS	Higher	1991, 0.377, SW
8	CYPRESS ROAD SCHOOL	4901 FRANK HENGEL WA	ENVIROSTOR, SCH, CERS	Lower	3652, 0.692, North
9	CYPRESS ROAD NEW ELE	CYPRESS ROAD/HIGHWAY	ENVIROSTOR, SCH	Lower	3942, 0.747, NNW
10	FOOD & LIQUOR #86	HWY 4 & CYPRESS AVEN	Notify 65	Higher	4134, 0.783, NNW
11	ZOCCHI ELEMENTARY SC	BROWNSTONE ROAD/ANDE	ENVIROSTOR, SCH	Higher	4322, 0.819, SW
12	BALDOCCHI PROPERTY	6390 SELLERS AVENUE	ENVIROSTOR, VCP	Lower	4434, 0.840, NE
13	76-ACRE FOURTH HIGH	DELTA AND SELLERS	ENVIROSTOR, SCH	Higher	4670, 0.884, SE

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 RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

EXECUTIVE SUMMARY

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

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

State and tribal leaking storage tank lists

LUST..... Geotracker's Leaking Underground Fuel Tank Report

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Active UST Facilities

AST..... Aboveground Petroleum Storage Tank Facilities

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database

SWRCY..... Recycler Database

HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

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

CERS HAZ WASTE..... CERS HAZ WASTE

Toxic Pits..... Toxic Pits Cleanup Act Sites

US CDL..... National Clandestine Laboratory Register

PFAS..... PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST..... SWEEPS UST Listing

HIST UST..... Hazardous Substance Storage Container Database

CA FID UST..... Facility Inventory Database

CERS TANKS..... California Environmental Reporting System (CERS) Tanks

EXECUTIVE SUMMARY

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
ECHO..... Enforcement & Compliance History Information
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
CUPA Listings..... CUPA Resources List

EXECUTIVE SUMMARY

DRYCLEANERS.....	Cleaner Facilities
EMI.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
HAZNET.....	Facility and Manifest Data
ICE.....	ICE
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
CONTRA COSTA CO. SITE LIST.....	Site List
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
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)
MINES MRDS.....	Mineral Resources Data System
HWTS.....	Hazardous Waste Tracking System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/28/2020 has revealed that there is 1 SEMS-ARCHIVE 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>
COOKS BATTERY SITE Site ID: 0904346 EPA Id: CAD983613910	138 HILL AVE.	SSW 1/4 - 1/2 (0.258 mi.)	A3	12

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>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COOK BATTERY (OAKLEY) Database: RESPONSE, Date of Government Version: 10/26/2020 AWP Facility Id: 07360035 Status: Certified / Operation & Maintenance Facility Id: 07360035	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A5	21

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,

EXECUTIVE SUMMARY

identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/26/2020 has revealed that there are 6 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>
COOK BATTERY (OAKLEY) Facility Id: 07360035 Status: Certified / Operation & Maintenance	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A5	21
ZOCCHI ELEMENTARY SC Facility Id: 60000254 Status: No Further Action	BROWNSTONE ROAD/ANDE	SW 1/2 - 1 (0.819 mi.)	11	73
76-ACRE FOURTH HIGH Facility Id: 70000141 Status: No Further Action	DELTA AND SELLERS	SE 1/2 - 1 (0.884 mi.)	13	83
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CYPRESS ROAD SCHOOL Facility Id: 07000006 Status: No Further Action	4901 FRANK HENGEL WA	N 1/2 - 1 (0.692 mi.)	8	66
CYPRESS ROAD NEW ELE Facility Id: 07820005 Status: No Action Required	CYPRESS ROAD/HIGHWAY	NNW 1/2 - 1 (0.747 mi.)	9	70
BALDOCCHI PROPERTY Facility Id: 60000650 Status: No Further Action	6390 SELLERS AVENUE	NE 1/2 - 1 (0.840 mi.)	12	77

State and tribal leaking storage tank lists

CPS-SLIC: 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.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites 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>
COOK BATTERY (OAKLEY) Database: CPS-SLIC, Date of Government Version: 09/08/2020 Facility Status: Completed - Case Closed Global Id: SLT5S1103150	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A5	21
COOK BATTERY RECLAMA Database: SLIC REG 5, Date of Government Version: 04/01/2005	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A6	60

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 09/14/2020 has revealed that there are 2 US BROWNFIELDS sites 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>
COOK'S BATTERY ACRES property ID: 15606 Cleanup Completion Date: -	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A4	13
BAY AREA AUTO SALES ACRES property ID: 15609 Cleanup Completion Date: -	5600 MAIN STREET	SW 1/4 - 1/2 (0.377 mi.)	7	61

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>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COOK BATTERY (OAKLEY)	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A5	21

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 12/14/2020 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SIGNATURE HOMES	5360 MAIN ST	WSW 1/8 - 1/4 (0.177 mi.)	2	9

EXECUTIVE SUMMARY

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>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COOK BATTERY RECLAMA	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A6	60

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>
COOK BATTERY (OAKLEY) Envirostor Id: 7360035 Cleanup Status: CERTIFIED / OPERATION & MAINTENANCE	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A5	21

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COOK BATTERY (OAKLEY) Reg Id: 07360035	139 HILL AVENUE	SSW 1/4 - 1/2 (0.279 mi.)	A5	21

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 12/07/2020 has revealed that there is 1 Notify 65 site 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>
FOOD & LIQUOR #86	HWY 4 & CYPRESS AVEN	NNW 1/2 - 1 (0.783 mi.)	10	72

CIWQS: 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.

A review of the CIWQS list, as provided by EDR, and dated 11/30/2020 has revealed that there is 1 CIWQS site within approximately 0.001 miles of the target property.

EXECUTIVE SUMMARY

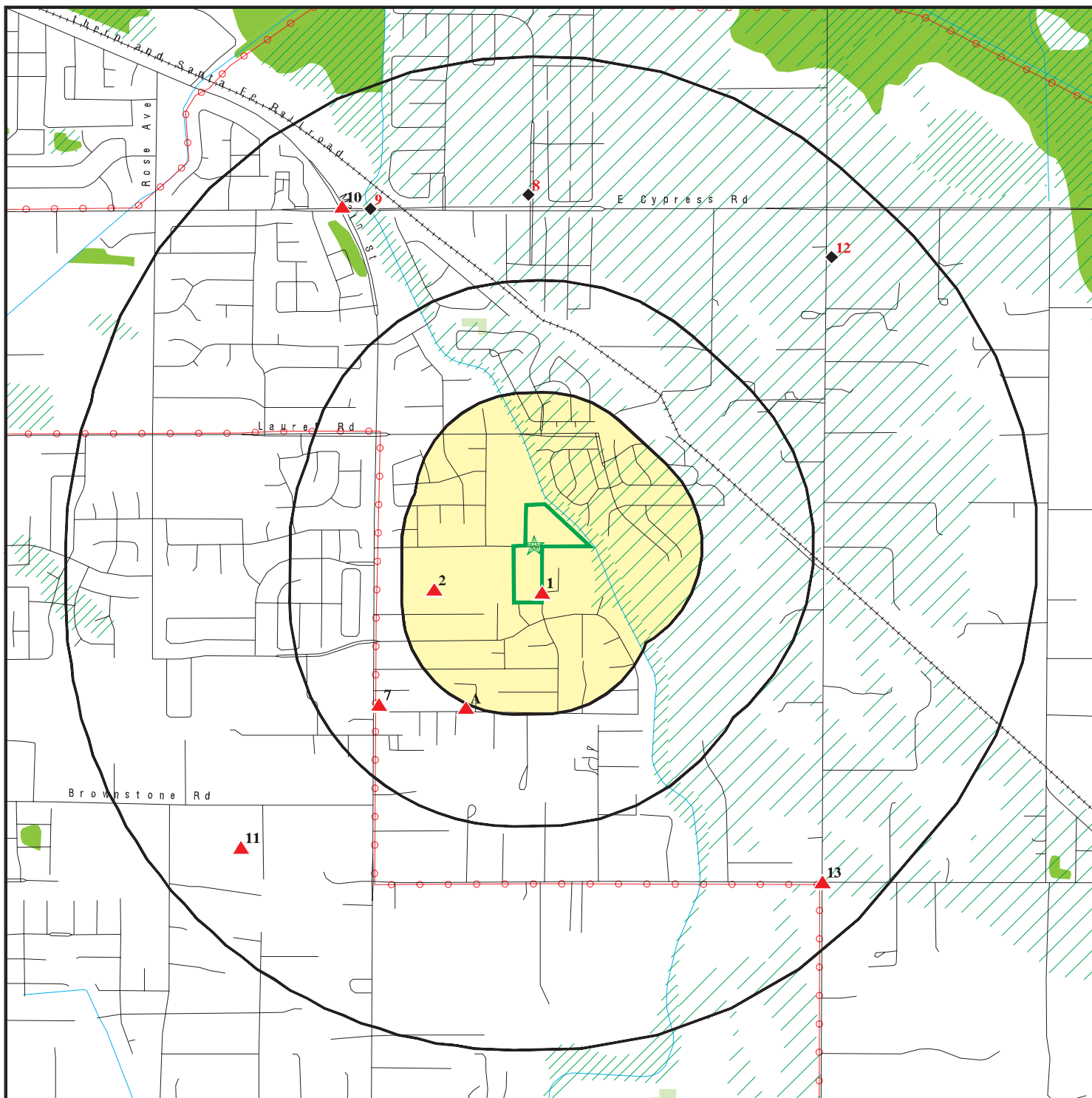
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AMADOR SUBDIVISION 8	SALVADOR LANE AND AM	0 - 1/8 (0.001 mi.)	1	9

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

<u>Site Name</u>	<u>Database(s)</u>
MARSH CANYON SANITARY LANDFILL	SWF/LF
COWELL RANCH/J.MARSH ST HIST PARK	SWF/LF
COWELL RANCH/VINEYARDS AT MARSH CR	CPS-SLIC
OAKLEY FUTURE ELEMENTARY SCHOOL	ENVIROSTOR

OVERVIEW MAP - 6371926.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

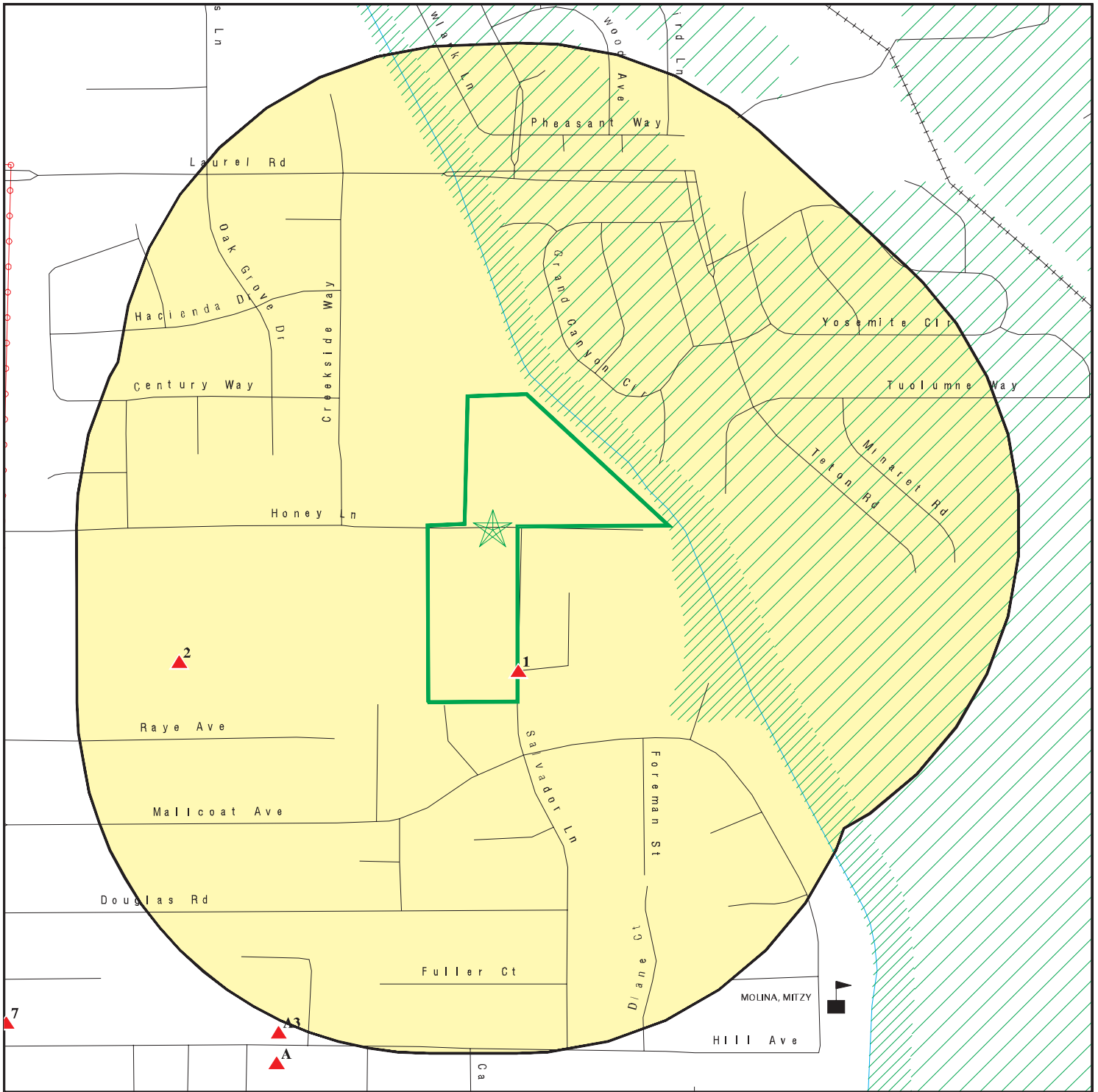


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.


SITE NAME: Vacant Properties
 ADDRESS: 463 & 560 Honey Lane
 Oakley CA 94561
 LAT/LONG: 37.979701 / 121.689412


CLIENT: GeoSolve
 CONTACT: Robert Campbell
 INQUIRY #: 6371926.2s
 DATE: February 18, 2021 1:41 pm

DETAIL MAP - 6371926.2S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 Sensitive Receptors

 National Priority List Sites


 Dept. Defense Sites

 Indian Reservations BIA

 Power transmission lines

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 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: Vacant Properties
 ADDRESS: 463 & 560 Honey Lane
 Oakley CA 94561
 LAT/LONG: 37.979701 / 121.689412

CLIENT: GeoSolve
 CONTACT: Robert Campbell
 INQUIRY #: 6371926.2s
 DATE: February 18, 2021 1:43 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	1	NR	NR	1
<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</i>								
RESPONSE	1.000		0	0	1	0	NR	1
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	1.000		0	0	1	5	NR	6
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<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	2	NR	NR	2
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	2	NR	NR	2
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
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
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	1	0	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	0	NR	NR	NR	0
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
<i>Local Lists of Registered Storage Tanks</i>								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
<i>Local Land Records</i>								
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		0	1	NR	NR	NR	1
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
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	1	0	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	1	NR	NR	1
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	1	NR	1
CONTRA COSTA CO. SITE USE	0.250		0	0	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		1	NR	NR	NR	NR	1
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
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals --			0	1	1	11	6	0	19
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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>
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

1
 < 1/8
 0.001 mi.
 3 ft.

**AMADOR SUBDIVISION 8504
 SALVADOR LANE AND AMADOR CT
 OAKLEY, CA 95758**

**CIWQS S121619763
 N/A**

**Relative:
 Higher
 Actual:
 32 ft.**

CIWQS:
 Name: AMADOR SUBDIVISION 8504
 Address: SALVADOR LANE AND AMADOR CT
 City,State,Zip: OAKLEY, CA 95758
 Agency: KB Home South Bay Inc
 Agency Address: 5431 West Dori Ave, Fresno, CA 93722
 Place/Project Type: Construction - Residential
 SIC/NAICS: Not reported
 Region: 5S
 Program: CONSTW
 Regulatory Measure Status: Terminated
 Regulatory Measure Type: Storm water construction
 Order Number: 99-08DW
 WDID: 5S07C319263
 NPDES Number: CAS000002
 Adoption Date: 01/01/1900
 Effective Date: 11/03/2002
 Termination Date: 07/01/2005
 Expiration/Review Date: 01/01/1900
 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: Not reported
 Longitude: Not reported

2
 WSW
 1/8-1/4
 0.177 mi.
 935 ft.

**SIGNATURE HOMES
 5360 MAIN ST
 OAKLEY, CA 94561**

**RCRA NonGen / NLR 1026472548
 CAC003078191**

**Relative:
 Higher
 Actual:
 44 ft.**

RCRA NonGen / NLR:
 Date Form Received by Agency: 2020-08-06 00:00:00.0
 Handler Name: SIGNATURE HOMES
 Handler Address: 5360 MAIN ST
 Handler City,State,Zip: OAKLEY, CA 94561
 EPA ID: CAC003078191
 Contact Name: SIGNATURE HOMES
 Contact Address: 4670 WILLOW ROAD SUITE 200
 Contact City,State,Zip: PLEASANTON, CA 94588
 Contact Telephone: 925-989-7652
 Contact Fax: Not reported
 Contact Email: SJONES@SIGHOMES.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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SIGNATURE HOMES (Continued)

1026472548

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4670 WILLOW ROAD SUITE 200
Mailing City, State, Zip:	PLEASANTON, CA 94588
Owner Name:	SIGNATURE HOMES
Owner Type:	Other
Operator Name:	SIGNATURE HOMES
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-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:	2020-08-14 15:10:10.0
Recognized Trader-Importer:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SIGNATURE HOMES (Continued)

1026472548

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: SIGNATURE HOMES
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4670 WILLOW ROAD SUITE 200
Owner/Operator City,State,Zip: PLEASANTON, CA 94588
Owner/Operator Telephone: 925-989-7652
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: SIGNATURE HOMES
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4670 WILLOW ROAD SUITE 200
Owner/Operator City,State,Zip: PLEASANTON, CA 94588
Owner/Operator Telephone: 925-989-7652
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2020-08-06 00:00:00.0
Handler Name: SIGNATURE HOMES
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SIGNATURE HOMES (Continued)

1026472548

Evaluation Action Summary:
 Evaluations:

No Evaluations Found

A3
SSW
1/4-1/2
0.258 mi.
1363 ft.

COOKS BATTERY SITE
138 HILL AVE.
OAKLEY, CA 94561
Site 1 of 4 in cluster A

SEMS-ARCHIVE **1003879667**
LEAD SMELTERS **CAD983613910**

Relative:
Higher
Actual:
39 ft.

SEMS Archive:
 Site ID: 0904346
 EPA ID: CAD983613910
 Name: COOKS BATTERY SITE
 Address: 138 HILL AVE.
 Address 2: Not reported
 City,State,Zip: OAKLEY, CA 94561
 Cong District: 07
 FIPS Code: 06013
 FF: N
 NPL: Not on the NPL
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region: 09
 Site ID: 0904346
 EPA ID: CAD983613910
 Site Name: COOKS BATTERY SITE
 NPL: N
 FF: N
 OU: 00
 Action Code: VS
 Action Name: ARCH SITE
 SEQ: 1
 Start Date: 1999-07-07 04:00:00
 Finish Date: 1999-07-07 04:00:00
 Qual: Not reported
 Current Action Lead: EPA Perf In-Hse

Region: 09
 Site ID: 0904346
 EPA ID: CAD983613910
 Site Name: COOKS BATTERY SITE
 NPL: N
 FF: N
 OU: 00
 Action Code: DS
 Action Name: DISCVRY
 SEQ: 1
 Start Date: 1991-11-02 05:00:00
 Finish Date: 1991-11-02 05:00:00
 Qual: Not reported
 Current Action Lead: EPA Perf

Region: 09
 Site ID: 0904346
 EPA ID: CAD983613910
 Site Name: COOKS BATTERY SITE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

COOKS BATTERY SITE (Continued)

1003879667

NPL: N
 FF: N
 OU: 00
 Action Code: OO
 Action Name: SITE REASS
 SEQ: 1
 Start Date: 2013-07-01 05:00:00
 Finish Date: 2014-03-14 04:00:00
 Qual: N
 Current Action Lead: EPA Perf

Region: 09
 Site ID: 0904346
 EPA ID: CAD983613910
 Site Name: COOKS BATTERY SITE
 NPL: N
 FF: N
 OU: 00
 Action Code: PA
 Action Name: PA
 SEQ: 1
 Start Date: 1999-04-01 05:00:00
 Finish Date: 1999-05-14 04:00:00
 Qual: Not reported
 Current Action Lead: St Perf

Lead Smelter Sites:
 Site ID: 904346
 Facility Region Id: 9
 Latitude: Not reported
 Longitude: Not reported
 CoC Ind: Not reported
 Contaminant Name: Not reported
 FF Ind: N
 NAI: N
 Non-Primary Site-Sub Type: Not reported
 NPL: Not on the NPL
 Primary Site-Sub Type: Batteries/scrap metals/secondary smelting/precious metal recovery (Recycling)
 Special Initiative: Not reported

A4
SSW
1/4-1/2
0.279 mi.
1472 ft.

COOK'S BATTERY
139 HILL AVENUE
OAKLEY, CA 94561
Site 2 of 4 in cluster A

US BROWNFIELDS 1008377017
N/A

Relative:
Higher
Actual:
40 ft.

US BROWNFIELDS:
 Name: COOK'S BATTERY
 Address: 139 HILL AVENUE
 City,State,Zip: OAKLEY, CA 94561
 Recipient Name: Oakley, City of
 Grant Type: Assessment
 Property Number: 033-090-028
 Parcel size: 2
 Latitude: 37.9742

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK'S BATTERY (Continued)

1008377017

Longitude:	-121.6886
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	-
Datum:	-
Acres Property ID:	15606
IC Data Access:	-
Start Date:	10/01/2004
Redev Completion Date:	-
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	1
Cleanup Funding Source:	-
Assessment Funding:	-
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	Private/Other Funding
Grant Type:	-
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	97973701
Start Date:	04/30/2005
Ownership Entity:	-
Completion Date:	04/30/2005
Current Owner:	State Orphan
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	U
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	Y
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	-

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK'S BATTERY (Continued)

1008377017

Other cleaned up:	Y
Other metals found:	Y
Other metals cleaned:	Y
Other contaminants found:	Y
Other contams found description:	Low Soil pH
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	methane
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK'S BATTERY (Continued)

1008377017

Building material media cleaned up: -
Indoor air media cleaned up: -
Unknown media cleaned up: -
Past Use: Multistory Not reported
Property Description: agriculture, battery reclamation, state Superfund property
Below Poverty Number: 285
Below Poverty Percent: 8.77
Meidan Income: 2125
Meidan Income Number: 1003
Meidan Income Percent: 30.85
Vacant Housing Number: 42
Vacant Housing Percent: 4.62
Unemployed Number: 179
Unemployed Percent: 5.51

Name: COOK'S BATTERY
Address: 139 HILL AVENUE
City,State,Zip: OAKLEY, CA 94561
Recipient Name: Oakley, City of
Grant Type: Assessment
Property Number: 033-090-028
Parcel size: 2
Latitude: 37.9742
Longitude: -121.6886
HCM Label: -
Map Scale: -
Point of Reference: -
Highlights: -
Datum: -
Acres Property ID: 15606
IC Data Access: -
Start Date: 10/01/2004
Redev Completion Date: -
Completed Date: -
Acres Cleaned Up: -
Cleanup Funding: 1
Cleanup Funding Source: -
Assessment Funding: 200
Assessment Funding Source: -
Redevelopment Funding: -
Redev. Funding Source: -
Redev. Funding Entity Name: -
Redevelopment Start Date: -
Assessment Funding Entity: US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity: Private/Other Funding
Grant Type: -
Accomplishment Type: Phase I Environmental Assessment
Accomplishment Count: Y
Cooperative Agreement Number: 97973701
Start Date: 02/28/2005
Ownership Entity: -
Completion Date: 02/28/2005
Current Owner: State Orphan
Did Owner Change: N
Cleanup Required: Y
Video Available: N
Photo Available: Y

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK'S BATTERY (Continued)

1008377017

Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	U
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	Y
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	-
Other cleaned up:	Y
Other metals found:	Y
Other metals cleaned:	Y
Other contaminants found:	Y
Other contaminants found description:	Low Soil pH
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	methane
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

COOK'S BATTERY (Continued)

1008377017

Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	Not reported
Property Description:	agriculture, battery reclamation, state Superfund property
Below Poverty Number:	285
Below Poverty Percent:	8.77
Meidan Income:	2125
Meidan Income Number:	1003
Meidan Income Percent:	30.85
Vacant Housing Number:	42
Vacant Housing Percent:	4.62
Unemployed Number:	179
Unemployed Percent:	5.51
Name:	COOK'S BATTERY
Address:	139 HILL AVENUE
City,State,Zip:	OAKLEY, CA 94561
Recipient Name:	Oakley, City of
Grant Type:	Assessment
Property Number:	033-090-028
Parcel size:	2
Latitude:	37.9742
Longitude:	-121.6886
HCM Label:	-
Map Scale:	-
Point of Reference:	-
Highlights:	-
Datum:	-
Acres Property ID:	15606
IC Data Access:	-
Start Date:	10/01/2004
Redev Completion Date:	-
Completed Date:	-

Map ID
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Elevation

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COOK'S BATTERY (Continued)

1008377017

Acres Cleaned Up:	-
Cleanup Funding:	1
Cleanup Funding Source:	-
Assessment Funding:	1800
Assessment Funding Source:	-
Redevelopment Funding:	-
Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	Private/Other Funding
Grant Type:	-
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	97973701
Start Date:	02/28/2005
Ownership Entity:	-
Completion Date:	02/28/2005
Current Owner:	State Orphan
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	U
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	Y
Groundwater cleaned:	Y
Lead contaminant found:	Y
Lead cleaned up:	Y
No media affected:	Not reported
Unknown media affected:	-
Other cleaned up:	Y
Other metals found:	Y
Other metals cleaned:	Y
Other contaminants found:	Y
Other contams found description:	Low Soil pH
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-

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COOK'S BATTERY (Continued)

1008377017

Sediments found:	-
Sediments cleaned:	-
Soil affected:	Y
Soil cleaned up:	Y
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	methane
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	Not reported
Property Description:	agriculture, battery reclamation, state Superfund property
Below Poverty Number:	285
Below Poverty Percent:	8.77
Meidan Income:	2125
Meidan Income Number:	1003
Meidan Income Percent:	30.85
Vacant Housing Number:	42

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COOK'S BATTERY (Continued)

1008377017

Vacant Housing Percent: 4.62
 Unemployed Number: 179
 Unemployed Percent: 5.51

A5
SSW
1/4-1/2
0.279 mi.
1472 ft.
Relative:
Higher
Actual:
40 ft.

COOK BATTERY (OAKLEY BATTERY)
139 HILL AVENUE
OAKLEY, CA 94561
Site 3 of 4 in cluster A

RESPONSE
ENVIROSTOR
CPS-SLIC
HIST Cal-Sites
LIENS
Cortese
HIST CORTESE
CERS

S101272690
N/A

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
 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

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COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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: 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
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

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COOK BATTERY (OAKLEY BATTERY) (Continued)

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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
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.

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COOK BATTERY (OAKLEY BATTERY) (Continued)

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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.

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.

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COOK BATTERY (OAKLEY BATTERY) (Continued)

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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 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.

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COOK BATTERY (OAKLEY BATTERY) (Continued)

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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)
Completed Date: 03/14/2014
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: 07/08/2010
Comments: Upon observing the current site conditions, DTSC concludes that the

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COOK BATTERY (OAKLEY BATTERY) (Continued)

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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: 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

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COOK BATTERY (OAKLEY BATTERY) (Continued)

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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: 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: 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

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COOK BATTERY (OAKLEY BATTERY) (Continued)

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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
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
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: 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

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COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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: 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: 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

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COOK BATTERY (OAKLEY BATTERY) (Continued)

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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
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

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: 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: Correspondence
Completed Date: 06/30/2011
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2021
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:

Name: 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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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: 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.

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: 06/25/1996
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.

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

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EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
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COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 08/29/2017

Map ID
Direction
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Elevation

MAP FINDINGS

Site

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EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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: 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: 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

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: 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.

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.

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: 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: 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
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

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: 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: 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: 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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
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.

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: 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
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: Correspondence
Completed Date: 06/30/2011
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2021
Schedule Area Name: Not reported
Schedule 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

Schedule Document Type: Not reported
Schedule Due Date: Not reported
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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
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

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:	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
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

Map ID
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MAP FINDINGS

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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:	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
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

Map ID
Direction
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

For Residential Reuse: 0
Unknown Type: 0
Facility ID: 07360035
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: BTRY
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.

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

Map ID
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Elevation

MAP FINDINGS

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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: 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
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

Map ID
Direction
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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: 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

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.

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: 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.
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

Map ID
Direction
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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: 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
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

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
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
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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: 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 OF CONTAMINATED 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
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

Map ID
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MAP FINDINGS

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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: 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
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

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Database(s)

EDR ID Number
 EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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
Enf Type: Not reported
Swat R: Not reported
Flag: envirostor
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COOK BATTERY (OAKLEY BATTERY) (Continued)

S101272690

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

A6
SSW
1/4-1/2
0.279 mi.
1472 ft.

COOK BATTERY RECLAMATION (OAKLEY BATTERY)
139 HILL AVENUE
OAKLEY, CA 94561

CPS-SLIC S100833369
CA BOND EXP. PLAN N/A

Site 4 of 4 in cluster A

Relative:
Higher
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
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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

COOK BATTERY RECLAMATION (OAKLEY BATTERY) (Continued)

S100833369

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.

7
SW
1/4-1/2
0.377 mi.
1991 ft.

BAY AREA AUTO SALES
5600 MAIN STREET
OAKLEY, CA 94561

US BROWNFIELDS 1016345717
FINDS N/A

Relative:
Higher

Actual:
39 ft.

US BROWNFIELDS:

Name: BAY AREA AUTO SALES
 Address: 5600 MAIN STREET
 City,State,Zip: OAKLEY, CA 94561
 Recipient Name: Oakley, City of
 Grant Type: Assessment
 Property Number: 33-053-010
 Parcel size: 1
 Latitude: 37.9743
 Longitude: -121.6959
 HCM Label: Address Matching-House Number
 Map Scale: 1:24000
 Point of Reference: Entrance Point of a Facility or Station
 Highlights: The Bay Area Auto Sales property does not warrant a Phase II assessment because it is clean. The property is therefore ready for redevelopment, and the owner is willing to sell it. (PPF attached to QR 7, 4/1/05-6/30/05)

Datum: -
 Acres Property ID: 15609
 IC Data Access: -
 Start Date: -
 Redev Completion Date: -
 Completed Date: -
 Acres Cleaned Up: -
 Cleanup Funding: -
 Cleanup Funding Source: -
 Assessment Funding: -
 Assessment Funding Source: -
 Redevelopment Funding: -

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAY AREA AUTO SALES (Continued)

1016345717

Redev. Funding Source:	-
Redev. Funding Entity Name:	-
Redevelopment Start Date:	-
Assessment Funding Entity:	-
Cleanup Funding Entity:	-
Grant Type:	-
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	N
Cooperative Agreement Number:	97973701
Start Date:	04/29/2005
Ownership Entity:	-
Completion Date:	04/29/2005
Current Owner:	K. and L. Ritthaler
Did Owner Change:	N
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	Not reported
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BAY AREA AUTO SALES (Continued)

1016345717

VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	Not reported
Property Description:	farm land and almond orchards
Below Poverty Number:	333
Below Poverty Percent:	9.04
Meidan Income:	5228
Meidan Income Number:	1037
Meidan Income Percent:	28.14
Vacant Housing Number:	49
Vacant Housing Percent:	4.59
Unemployed Number:	200
Unemployed Percent:	5.43
Name:	BAY AREA AUTO SALES
Address:	5600 MAIN STREET

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAY AREA AUTO SALES (Continued)

1016345717

City,State,Zip: OAKLEY, CA 94561
Recipient Name: Oakley, City of
Grant Type: Assessment
Property Number: 33-053-010
Parcel size: 1
Latitude: 37.9743
Longitude: -121.6959
HCM Label: Address Matching-House Number
Map Scale: 1:24000
Point of Reference: Entrance Point of a Facility or Station
Highlights: The Bay Area Auto Sales property does not warrant a Phase II assessment because it is clean. The property is therefore ready for redevelopment, and the owner is willing to sell it. (PPF attached to QR 7, 4/1/05-6/30/05)
Datum: -
Acres Property ID: 15609
IC Data Access: -
Start Date: -
Redev Completion Date: -
Completed Date: -
Acres Cleaned Up: -
Cleanup Funding: -
Cleanup Funding Source: -
Assessment Funding: 3600
Assessment Funding Source: -
Redevelopment Funding: -
Redev. Funding Source: -
Redev. Funding Entity Name: -
Redevelopment Start Date: -
Assessment Funding Entity: US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity: -
Grant Type: -
Accomplishment Type: Phase I Environmental Assessment
Accomplishment Count: Y
Cooperative Agreement Number: 97973701
Start Date: 02/28/2005
Ownership Entity: -
Completion Date: 02/28/2005
Current Owner: K. and L. Ritthaler
Did Owner Change: N
Cleanup Required: N
Video Available: N
Photo Available: Y
Institutional Controls Required: N
IC Category Proprietary Controls: -
IC Cat. Info. Devices: -
IC Cat. Gov. Controls: -
IC Cat. Enforcement Permit Tools: -
IC in place date: -
IC in place: N
State/tribal program date: -
State/tribal program ID: -
State/tribal NFA date: -
Air cleaned: -
Asbestos found: -
Asbestos cleaned: -
Controlled substance found: -

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BAY AREA AUTO SALES (Continued)

1016345717

Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	Not reported
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	-
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BAY AREA AUTO SALES (Continued)

1016345717

Nickel contaminant found: -
 No contaminant found: -
 Pesticides contaminant found: -
 Selenium contaminant found: -
 SVOCs contaminant found: -
 Unknown contaminant found: -
 Future Use: Multistory -
 Media affected Bluiding Material: -
 Media affected indoor air: -
 Building material media cleaned up: -
 Indoor air media cleaned up: -
 Unknown media cleaned up: -
 Past Use: Multistory Not reported
 Property Description: farm land and almond orchards
 Below Poverty Number: 333
 Below Poverty Percent: 9.04
 Meidan Income: 5228
 Meidan Income Number: 1037
 Meidan Income Percent: 28.14
 Vacant Housing Number: 49
 Vacant Housing Percent: 4.59
 Unemployed Number: 200
 Unemployed Percent: 5.43

FINDS:

Registry ID: 110038698530

Click Here:

Environmental Interest/Information System:

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is a federal online database for Brownfields Grantees to electronically submit data directly to EPA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

8
North
1/2-1
0.692 mi.
3652 ft.

CYPRESS ROAD SCHOOL
4901 FRANK HENGEL WAY
OAKLEY, CA 94561

ENVIROSTOR **S106568162**
SCH **N/A**
CERS

Relative:
Lower
Actual:
16 ft.

ENVIROSTOR:
 Name: CYPRESS ROAD SCHOOL
 Address: 4901 FRANK HENGEL WAY
 City,State,Zip: OAKLEY, CA 94561
 Facility ID: 07000006
 Status: No Further Action
 Status Date: 09/28/2004
 Site Code: 204143
 Site Type: School Cleanup
 Site Type Detailed: School
 Acres: 12
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Jose Luevano
 Supervisor: Mark Malinowski

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CYPRESS ROAD SCHOOL (Continued)

S106568162

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: 37.99304
Longitude: -121.6912
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - LIVESTOCK
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: SOIL
Alias Name: OAKLEY UNION ESD-PRPSD CYPRESS ROAD ES
Alias Type: Alternate Name
Alias Name: 110021875773
Alias Type: EPA (FRS #)
Alias Name: 204143
Alias Type: Project Code (Site Code)
Alias Name: 07000006
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/27/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 12/16/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/06/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 09/28/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CYPRESS ROAD SCHOOL (Continued)

S106568162

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: CYPRESS ROAD SCHOOL
Address: 4901 FRANK HENGEL WAY
City,State,Zip: OAKLEY, CA 94561
Facility ID: 07000006
Site Type: School Cleanup
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: Jose Luevano
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Site Code: 204143
Assembly: 11
Senate: 07
Special Program Status: Not reported
Status: No Further Action
Status Date: 09/28/2004
Restricted Use: NO
Funding: School District
Latitude: 37.99304
Longitude: -121.6912
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - LIVESTOCK
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: SOIL
Alias Name: OAKLEY UNION ESD-PRPSD CYPRESS ROAD ES
Alias Type: Alternate Name
Alias Name: 110021875773
Alias Type: EPA (FRS #)
Alias Name: 204143
Alias Type: Project Code (Site Code)
Alias Name: 07000006
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/27/2005
Comments: Not reported

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

CYPRESS ROAD SCHOOL (Continued)

S106568162

Completed Date: 12/16/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/06/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 09/28/2004
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

CERS:

Name: CYPRESS ROAD SCHOOL
Address: 4901 FRANK HENGEL WAY
City,State,Zip: OAKLEY, CA 94561
Site ID: 336563
CERS ID: 07000006
CERS Description: School Cleanup

Affiliation:

Affiliation Type Desc: Supervisor
Entity Name: MARK MALINOWSKI
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: Lead Project Manager
Entity Name: JOSE LUEVANO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CYPRESS ROAD SCHOOL (Continued)

S106568162

Affiliation Zip: Not reported
Affiliation Phone: Not reported

9
NNW
1/2-1
0.747 mi.
3942 ft.

CYPRESS ROAD NEW ELEMENTARY SCHOOL
CYPRESS ROAD/HIGHWAY 4
OAKLEY, CA 94561

ENVIROSTOR **S118757483**
SCH **N/A**

Relative:
Lower
Actual:
27 ft.

ENVIROSTOR:
Name: CYPRESS ROAD NEW ELEMENTARY SCHOOL
Address: CYPRESS ROAD/HIGHWAY 4
City,State,Zip: OAKLEY, CA 94561
Facility ID: 07820005
Status: No Action Required
Status Date: 12/15/2000
Site Code: 204060
Site Type: School Investigation
Site Type Detailed: School
Acres: 9
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Juan Koponen
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: 37.99064
Longitude: -121.6961
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: CYPRESS ROAD NEW ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: OAKLEY UNION ELEM SD-CYP RD NEW ELEM SCH
Alias Type: Alternate Name
Alias Name: 204060
Alias Type: Project Code (Site Code)
Alias Name: 07820005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 12/15/2000
Comments: Not reported

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

CYPRESS ROAD NEW ELEMENTARY SCHOOL (Continued)

S118757483

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/20/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/15/2001
Comments: DTSC sent a CRU to the accounting unit to summarize costs associated with the Phase 1

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: CYPRESS ROAD NEW ELEMENTARY SCHOOL
Address: CYPRESS ROAD/HIGHWAY 4
City,State,Zip: OAKLEY, CA 94561
Facility ID: 07820005
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 9
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Juan Koponen
Division Branch: Northern California Schools & Santa Susana
Site Code: 204060
Assembly: 11
Senate: 07
Special Program Status: Not reported
Status: No Action Required
Status Date: 12/15/2000
Restricted Use: NO
Funding: School District
Latitude: 37.99064
Longitude: -121.6961
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: NONE SPECIFIED, No Contaminants found
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: CYPRESS ROAD NEW ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: OAKLEY UNION ELEM SD-CYP RD NEW ELEM SCH
Alias Type: Alternate Name

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CYPRESS ROAD NEW ELEMENTARY SCHOOL (Continued)

S118757483

Alias Name: 204060
Alias Type: Project Code (Site Code)
Alias Name: 07820005
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 12/15/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/20/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/15/2001
Comments: DTSC sent a CRU to the accounting unit to summarize costs associated with the Phase 1

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

10
NNW
1/2-1
0.783 mi.
4134 ft.

**FOOD & LIQUOR #86
HWY 4 & CYPRESS AVENUE
OAKLEY, CA 92546**

**Notify 65 S100178935
N/A**

Relative:
Higher
Actual:
32 ft.

NOTIFY 65:
Name: FOOD & LIQUOR #86
Address: HWY 4 & CYPRESS AVENUE
City,State,Zip: OAKLEY, CA 92546
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

11
SW
1/2-1
0.819 mi.
4322 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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZOCCHI ELEMENTARY SCHOOL (Continued)

S107737654

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZOCCHI ELEMENTARY SCHOOL (Continued)

S107737654

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZOCCHI ELEMENTARY SCHOOL (Continued)

S107737654

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
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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ZOCCHI ELEMENTARY SCHOOL (Continued)

S107737654

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

12
NE
1/2-1
0.840 mi.
4434 ft.

**BALDOCCHI PROPERTY
6390 SELLERS AVENUE
OAKLEY, CA 94561**

**ENVIROSTOR S108649760
VCP N/A**

**Relative:
Lower
Actual:
13 ft.**

ENVIROSTOR:
Name: BALDOCCHI PROPERTY
Address: 6390 SELLERS AVENUE
City,State,Zip: OAKLEY, CA 94561
Facility ID: 60000650
Status: No Further Action
Status Date: 05/29/2020
Site Code: 202256
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 23
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Allan Fone
Supervisor: Whitney Smith
Division Branch: Cleanup Berkeley
Assembly: 11
Senate: 07
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.98961
Longitude: -121.6752
APN: 032010002
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC: Chlordane DDT Lead
Confirmed COC: Chlordane DDT Lead
Potential Description: SOIL
Alias Name: 032010002
Alias Type: APN
Alias Name: 110033617076
Alias Type: EPA (FRS #)
Alias Name: 201746
Alias Type: Site Code - Historical
Alias Name: 202256
Alias Type: Project Code (Site Code)
Alias Name: 60000650
Alias Type: Envirostor ID Number

Completed Info:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BALDOCCHI PROPERTY (Continued)

S108649760

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/10/2009
Comments: Spoke to Tim Saunders about the site. There is no possibility that this project will restart due to the housing market in the next 3-5 years.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 10/25/2007
Comments: No comments received on NOE.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/28/2007
Comments: VCA signed 06/28/2007

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/10/2013
Comments: DTSC has sent a letter to the City of Oakley with our concerns about the contamination on the property that has not been remediated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 06/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Form 1479 - Site and Collections Summary
Completed Date: 04/30/2013
Comments: NFCRA approved 10/3/2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/29/2007
Comments: Removal Action Workplan approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 09/21/2007
Comments: Community Profile approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/18/2007
Comments: 30-Day public comment period scheduled to begin on Sept. 24, 2007.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BALDOCCHI PROPERTY (Continued)

S108649760

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/18/2007
Comments: 30-Day public comment period scheduled to begin on Sept. 24, 2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 06/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 06/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 05/17/2019
Comments: Brownfields coordinator determined that DTSC would continue to lead agency for this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/30/2019
Comments: Department reviewed the Preliminary Endangerment Assessment Technical Memorandum (dated 7/26/2019). The health risk evaluation in the Memorandum indicates that contaminant concentrations are below screening levels for unrestricted use of the property, and arsenic levels are consistent with background. Based on these results, the Department concurs with the conclusion that No Further Action is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 05/29/2020
Comments: Termination of Standard Voluntary Agreement. DTSC oversight activities completed September 2019. DTSC oversight costs have been paid.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 07/17/2019
Comments: Voluntary agreement executed on 7/17/2019. Copies sent to responsible party on 7/18/2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/25/2010
Comments: Letter sent to Ryder Homes.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BALDOCCHI PROPERTY (Continued)

S108649760

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

VCP:

Name: BALDOCCHI PROPERTY
Address: 6390 SELLERS AVENUE
City,State,Zip: OAKLEY, CA 94561
Facility ID: 60000650
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 23
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Allan Fone
Supervisor: Whitney Smith
Division Branch: Cleanup Berkeley
Site Code: 202256
Assembly: 11
Senate: 07
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 05/29/2020
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 37.98961 / -121.6752
APN: 032010002
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS
Potential COC: 30004, 30008, 30013
Confirmed COC: 30004,30008,30013
Potential Description: SOIL
Alias Name: 032010002
Alias Type: APN
Alias Name: 110033617076
Alias Type: EPA (FRS #)
Alias Name: 201746
Alias Type: Site Code - Historical
Alias Name: 202256
Alias Type: Project Code (Site Code)
Alias Name: 60000650
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/10/2009
Comments: Spoke to Tim Saunders about the site. There is no possibility that

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BALDOCCHI PROPERTY (Continued)

S108649760

this project will restart due to the housing market in the next 3-5 years.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 10/25/2007
Comments: No comments received on NOE.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/28/2007
Comments: VCA signed 06/28/2007

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/10/2013
Comments: DTSC has sent a letter to the City of Oakley with our concerns about the contamination on the property that has not been remediated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 06/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Form 1479 - Site and Collections Summary
Completed Date: 04/30/2013
Comments: NFCRA approved 10/3/2013.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/29/2007
Comments: Removal Action Workplan approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 09/21/2007
Comments: Community Profile approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/18/2007
Comments: 30-Day public comment period scheduled to begin on Sept. 24, 2007.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/18/2007
Comments: 30-Day public comment period scheduled to begin on Sept. 24, 2007.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BALDOCCHI PROPERTY (Continued)

S108649760

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 06/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 06/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Application
Completed Date: 05/17/2019
Comments: Brownfields coordinator determined that DTSC would continue to lead agency for this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/30/2019
Comments: Department reviewed the Preliminary Endangerment Assessment Technical Memorandum (dated 7/26/2019). The health risk evaluation in the Memorandum indicates that contaminant concentrations are below screening levels for unrestricted use of the property, and arsenic levels are consistent with background. Based on these results, the Department concurs with the conclusion that No Further Action is required.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 05/29/2020
Comments: Termination of Standard Voluntary Agreement. DTSC oversight activities completed September 2019. DTSC oversight costs have been paid.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 07/17/2019
Comments: Voluntary agreement executed on 7/17/2019. Copies sent to responsible party on 7/18/2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 03/25/2010
Comments: Letter sent to Ryder Homes.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BALDOCCHI PROPERTY (Continued)

S108649760

Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

13
SE
1/2-1
0.884 mi.
4670 ft.

**76-ACRE FOURTH HIGH SCHOOL
 DELTA AND SELLERS
 BRENTWOOD, CA 94561**

**ENVIROSTOR S107735777
 SCH N/A**

**Relative:
 Higher**

ENVIROSTOR:

**Actual:
 36 ft.**

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

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: 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: PProject Manager changed from Mike Hall to Mellan Songco

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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

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
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: 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

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: 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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

76-ACRE FOURTH HIGH SCHOOL (Continued)

S107735777

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

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

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRENTWOOD	S106842886	COWELL RANCH/VINEYARDS AT MARSH CR	MARSH CREEK RD/CONCORD AVE		CPS-SLIC
BRENTWOOD	S126982905	MARSH CANYON SANITARY LANDFILL	1/2 MILE S/O MARSH CREEK RD	94513	SWF/LF
BRENTWOOD	S126982938	COWELL RANCH/J.MARSH ST HIST PARK	W. SIDE MARSH CREEK 1.5 M SW W	94513	SWF/LF
OAKLEY	S125431929	OAKLEY FUTURE ELEMENTARY SCHOOL	SANDMOUND, BETHEL ISLAND BOULE	94561	ENVIROSTOR

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: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: N/A
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 01/14/2021
Number of Days to Update: 26	Next Scheduled EDR Contact: 04/12/2021
	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: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: N/A
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 01/14/2021
Number of Days to Update: 26	Next Scheduled EDR Contact: 04/12/2021
	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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
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: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/26/2021
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: 10/28/2020	Source: EPA
Date Data Arrived at EDR: 11/05/2020	Telephone: 800-424-9346
Date Made Active in Reports: 11/25/2020	Last EDR Contact: 01/14/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/26/2021
	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: 12/14/2020	Source: EPA
Date Data Arrived at EDR: 12/17/2020	Telephone: 800-424-9346
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	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: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	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: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	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: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	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: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	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: 11/11/2020	Source: Department of the Navy
Date Data Arrived at EDR: 11/17/2020	Telephone: 843-820-7326
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 02/08/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/24/2021
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/28/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2020	Telephone: 703-603-0695
Date Made Active in Reports: 11/18/2020	Last EDR Contact: 11/05/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/15/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 7

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
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: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/26/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/26/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/09/2020
Date Data Arrived at EDR: 11/10/2020
Date Made Active in Reports: 01/14/2021
Number of Days to Update: 65

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 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 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 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 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 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

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

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 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 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 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

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: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

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: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 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: 12/16/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 09/08/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	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: 07/21/2020
Date Data Arrived at EDR: 09/03/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 83

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/03/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/03/2020
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/03/2020
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 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2020
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 9
Telephone: 415-972-3368
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 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: 12/15/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 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: 12/16/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 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: 12/16/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-7591
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 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: 12/16/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 05/03/2021
	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: 12/15/2020
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/05/2021
	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: 10/26/2020	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/26/2020	Telephone: 916-323-3400
Date Made Active in Reports: 01/13/2021	Last EDR Contact: 01/26/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/10/2021
	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: 09/21/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/22/2020	Telephone: 916-323-7905
Date Made Active in Reports: 12/11/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 80	Next Scheduled EDR Contact: 04/05/2021
	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: 09/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2020	Telephone: 202-566-2777
Date Made Active in Reports: 12/10/2020	Last EDR Contact: 12/11/2020
Number of Days to Update: 86	Next Scheduled EDR Contact: 03/29/2021
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
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: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
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: 11/16/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 03/08/2021
	Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/26/2020	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/26/2020	Telephone: 916-323-3400
Date Made Active in Reports: 01/13/2021	Last EDR Contact: 01/26/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 05/10/2021
	Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 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: 01/19/2021
Number of Days to Update: 76	Next Scheduled EDR Contact: 04/19/2021
	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: 10/19/2020	Source: CalEPA
Date Data Arrived at EDR: 10/19/2020	Telephone: 916-323-2514
Date Made Active in Reports: 01/07/2021	Last EDR Contact: 01/20/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
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: 11/30/2020	Source: DTSC and SWRCB
Date Data Arrived at EDR: 12/01/2020	Telephone: 916-323-3400
Date Made Active in Reports: 02/12/2021	Last EDR Contact: 12/01/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/20/2020	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 09/22/2020	Telephone: 202-366-4555
Date Made Active in Reports: 12/14/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 04/05/2021
	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: 09/30/2020	Source: Office of Emergency Services
Date Data Arrived at EDR: 10/19/2020	Telephone: 916-845-8400
Date Made Active in Reports: 01/07/2021	Last EDR Contact: 01/20/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020	Source: State Water Quality Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/14/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/17/2020	Telephone: (415) 495-8895
Date Made Active in Reports: 12/22/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 5	Next Scheduled EDR Contact: 04/05/2021
	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: 09/29/2020	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 11/17/2020	Telephone: 202-528-4285
Date Made Active in Reports: 01/25/2021	Last EDR Contact: 02/17/2021
Number of Days to Update: 69	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/15/2021
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/26/2021
	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: 01/07/2021
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/19/2021
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/09/2021
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/24/2021
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/21/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/22/2020	Telephone: 202-566-1917
Date Made Active in Reports: 12/14/2020	Last EDR Contact: 12/17/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 04/05/2021
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 02/02/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 05/17/2021
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 02/05/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 05/17/2021
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 12/18/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 03/29/2021
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/21/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2020
Date Data Arrived at EDR: 11/12/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 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: 01/14/2021
Number of Days to Update: 34	Next Scheduled EDR Contact: 05/17/2021
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019	Source: EPA
Date Data Arrived at EDR: 10/11/2019	Telephone: 202-566-0500
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 01/08/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/19/2021
	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: 12/30/2020
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/19/2021
	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: 01/19/2021
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 12/01/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 11/30/2020
Number of Days to Update: 251	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 02/05/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 05/17/2021
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 01/08/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 04/12/2021
	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: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 10/08/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 88

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/05/2021
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: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
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: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/20/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/14/2021
Next Scheduled EDR Contact: 04/12/2021
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: 11/03/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 63

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/08/2021
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: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 11/24/2020
Next Scheduled EDR Contact: 03/15/2021
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: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/16/2020
Date Data Arrived at EDR: 09/17/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/10/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
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 Defense
Telephone: 703-704-1564
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 10/03/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/06/2020	Telephone: 202-564-2280
Date Made Active in Reports: 01/04/2021	Last EDR Contact: 01/08/2021
Number of Days to Update: 90	Next Scheduled EDR Contact: 04/19/2021
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2020	Telephone: 202-564-0527
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 11/17/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/08/2021
	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: 11/13/2020	Source: EPA
Date Data Arrived at EDR: 11/13/2020	Telephone: 800-385-6164
Date Made Active in Reports: 01/25/2021	Last EDR Contact: 02/17/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 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: 12/17/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/14/2019	Telephone: 925-454-2361
Date Made Active in Reports: 07/17/2019	Last EDR Contact: 02/12/2021
Number of Days to Update: 64	Next Scheduled EDR Contact: 05/24/2021
	Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/17/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/25/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 10/16/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/22/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 01/29/2021
Number of Days to Update: 77

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
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
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 877-786-9427
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/05/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
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: 09/08/2020	Source: Department of Conservation
Date Data Arrived at EDR: 09/08/2020	Telephone: 916-322-1080
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 10/30/2020	Source: Department of Public Health
Date Data Arrived at EDR: 12/01/2020	Telephone: 916-558-1784
Date Made Active in Reports: 02/12/2021	Last EDR Contact: 12/01/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/10/2020	Telephone: 916-445-9379
Date Made Active in Reports: 01/27/2021	Last EDR Contact: 02/09/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 05/24/2021
	Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 11/30/2020	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 12/01/2020	Telephone: 916-445-4038
Date Made Active in Reports: 02/12/2021	Last EDR Contact: 12/01/2020
Number of Days to Update: 73	Next Scheduled EDR Contact: 03/15/2021
	Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/08/2020	Source: Department of Conservation
Date Data Arrived at EDR: 09/08/2020	Telephone: 916-323-3836
Date Made Active in Reports: 12/01/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/07/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/09/2020	Telephone: 916-445-3846
Date Made Active in Reports: 12/10/2020	Last EDR Contact: 12/07/2020
Number of Days to Update: 1	Next Scheduled EDR Contact: 03/29/2021
	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: 09/08/2020	Source: Department of Conservation
Date Data Arrived at EDR: 09/08/2020	Telephone: 916-445-2408
Date Made Active in Reports: 12/01/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 09/08/2020	Source: State Water Resource Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019	Source: RWQCB, Central Valley Region
Date Data Arrived at EDR: 01/07/2020	Telephone: 559-445-5577
Date Made Active in Reports: 03/09/2020	Last EDR Contact: 01/08/2021
Number of Days to Update: 62	Next Scheduled EDR Contact: 04/19/2021
	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: 02/16/2021
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 12/15/2020
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/05/2021
	Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 09/08/2020	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/08/2020	Telephone: 866-480-1028
Date Made Active in Reports: 11/30/2020	Last EDR Contact: 12/04/2020
Number of Days to Update: 83	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 04/19/2021
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: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
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.

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: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

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: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
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: 10/19/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 82

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/24/2020
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
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: 02/16/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 83

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
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: 06/08/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 10/22/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/12/2021
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: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 11/18/2020
Date Data Arrived at EDR: 11/19/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 77

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
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: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/29/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 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: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LAKE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 71

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/03/2021
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: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 84

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/29/2020
Number of Days to Update: 81

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/12/2021
Next Scheduled EDR Contact: 04/26/2021
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: 12/31/2019
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
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: 12/18/2020
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/05/2021
	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: 01/15/2021
Number of Days to Update: 42	Next Scheduled EDR Contact: 04/26/2021
	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: 12/18/2020
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/05/2021
	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: 12/18/2020
Number of Days to Update: 58	Next Scheduled EDR Contact: 04/05/2021
	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: 07/20/2020	Source: Community Health Services
Date Data Arrived at EDR: 10/09/2020	Telephone: 323-890-7806
Date Made Active in Reports: 12/29/2020	Last EDR Contact: 01/12/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 04/26/2021
	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: 01/19/2021
Number of Days to Update: 65	Next Scheduled EDR Contact: 05/03/2021
	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: 09/11/2020	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 10/07/2020	Telephone: 310-618-2973
Date Made Active in Reports: 12/23/2020	Last EDR Contact: 01/19/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 02/16/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 12/21/2020
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/12/2021
	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: 01/29/2021
Number of Days to Update: 1	Next Scheduled EDR Contact: 05/31/2021
	Data Release Frequency: Varies

MONO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/15/2020
Next Scheduled EDR Contact: 03/08/3021
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: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List CUPA facility list.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/28/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 79

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Petroleum and non-petroleum spills.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/21/2021
Number of Days to Update: 79

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 1

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
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: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 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: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
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: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/16/2021
Number of Days to Update: 77

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
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: 02/01/2021
Next Scheduled EDR Contact: 05/03/2021
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: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/27/2021
Number of Days to Update: 82

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List

Cupa Facility List.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/11/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 11/20/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/05/2021
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/15/2021
Next Scheduled EDR Contact: 05/16/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SHASTA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 03/15/2021
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: 12/03/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
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: 09/18/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 08/11/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List

Cupa program facilities

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List

Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Division of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

VENTURA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/28/2020	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 10/22/2020	Telephone: 805-654-2813
Date Made Active in Reports: 01/12/2021	Last EDR Contact: 01/19/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/02/2021
	Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 12/21/2020
Number of Days to Update: 49	Next Scheduled EDR Contact: 04/12/2021
	Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 02/08/2021
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/24/2021
	Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/28/2020	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 10/22/2020	Telephone: 805-654-2813
Date Made Active in Reports: 01/12/2021	Last EDR Contact: 01/20/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 05/03/2021
	Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/26/2020	Source: Environmental Health Division
Date Data Arrived at EDR: 09/08/2020	Telephone: 805-654-2813
Date Made Active in Reports: 12/01/2020	Last EDR Contact: 12/08/2020
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/22/2021
	Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/21/2020	Source: Yolo County Department of Health
Date Data Arrived at EDR: 12/23/2020	Telephone: 530-666-8646
Date Made Active in Reports: 01/04/2021	Last EDR Contact: 12/20/2020
Number of Days to Update: 12	Next Scheduled EDR Contact: 04/11/2021
	Data Release Frequency: Annually

YUBA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2021
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 02/03/2021
Number of Days to Update: 6

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018

Date Data Arrived at EDR: 06/19/2019

Date Made Active in Reports: 09/03/2019

Number of Days to Update: 76

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/03/2020

Next Scheduled EDR Contact: 03/22/2021

Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

VACANT PROPERTIES
463 & 560 HONEY LANE
OAKLEY, CA 94561

TARGET PROPERTY COORDINATES

Latitude (North):	37.979701 - 37° 58' 46.92"
Longitude (West):	121.689412 - 121° 41' 21.88"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	615103.2
UTM Y (Meters):	4204167.5
Elevation:	32 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).

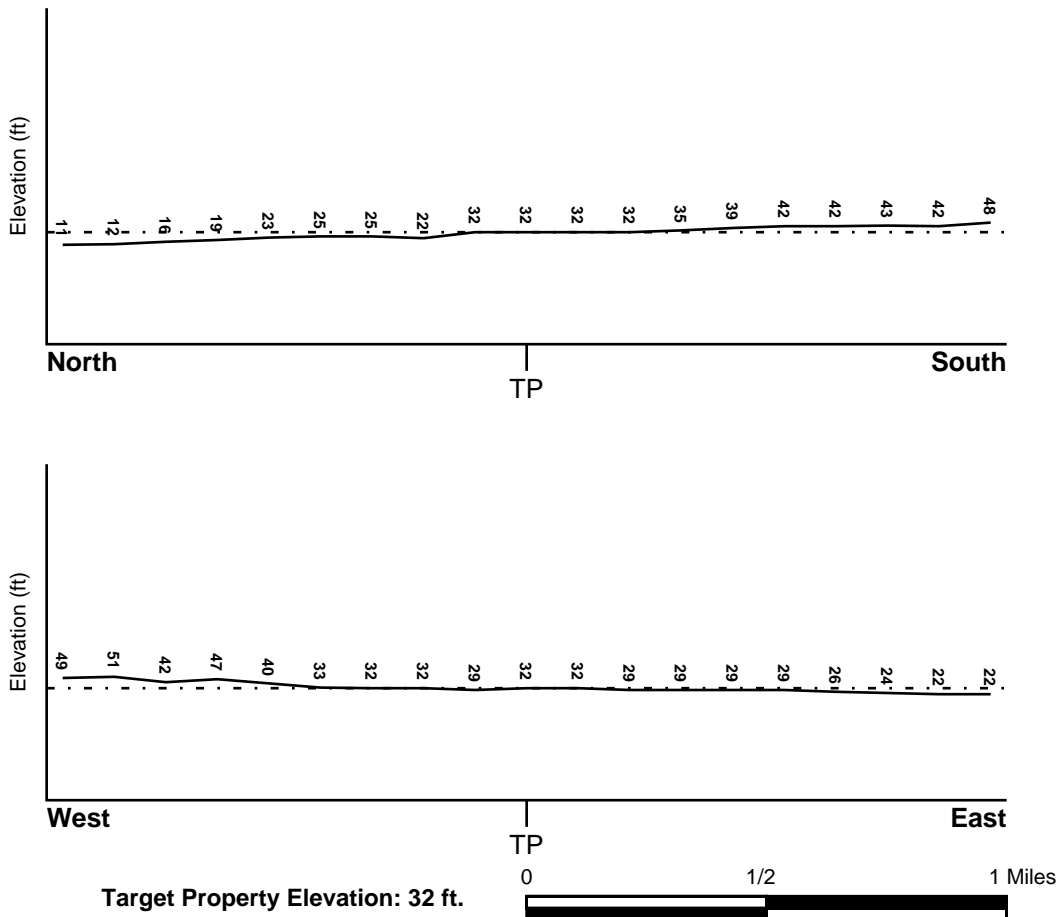
TOPOGRAPHIC INFORMATION

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 NNE

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>
06013C0355F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06013C0360F	FEMA FIRM Flood data
06013C0354F	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

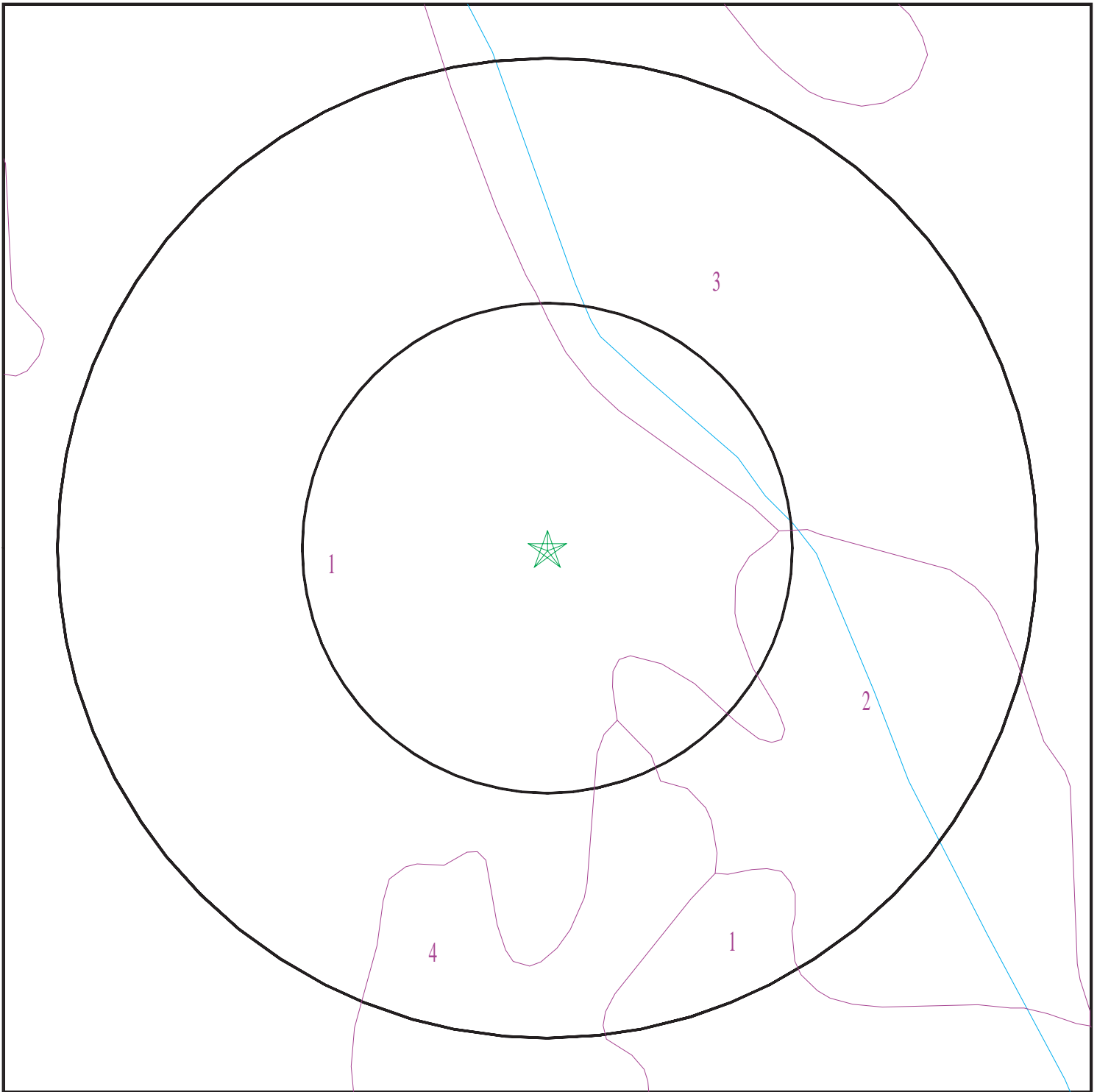
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

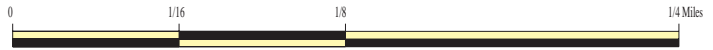
Category: Stratified Sequence

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 - 6371926.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Vacant Properties
ADDRESS: 463 & 560 Honey Lane
Oakley CA 94561
LAT/LONG: 37.979701 / 121.689412

CLIENT: GeoSolve
CONTACT: Robert Campbell
INQUIRY #: 6371926.2s
DATE: February 18, 2021 1:43 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: 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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

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

Soil Map ID: 3

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

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	18 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	18 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: CAPAY

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	35 inches	51 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	51 inches	72 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

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>
8	USGS40000186347	1/2 - 1 Mile SE
10	USGS40000186336	1/2 - 1 Mile SSE
12	USGS40000186322	1/2 - 1 Mile SSW
15	USGS40000186398	1/2 - 1 Mile WNW
D19	USGS40000186410	1/2 - 1 Mile NE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C22	USGS40000186349	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADWR8000036864	0 - 1/8 Mile West
A2	CADDW0000011181	1/4 - 1/2 Mile ESE
A3	CADWR8000036859	1/4 - 1/2 Mile ESE
A4	CADWR8000036857	1/4 - 1/2 Mile ESE
A5	CADWR8000036858	1/4 - 1/2 Mile ESE
6	CADWR8000036848	1/4 - 1/2 Mile SSE
7	CADDW0000010638	1/4 - 1/2 Mile SSE
9	CADWR8000036856	1/2 - 1 Mile ESE
11	1690	1/2 - 1 Mile SW
B13	1786	1/2 - 1 Mile SSW
B14	CADDW0000003952	1/2 - 1 Mile SSW
B16	75	1/2 - 1 Mile SSW
C17	CADWR8000036846	1/2 - 1 Mile ESE
18	CADDW0000013560	1/2 - 1 Mile SW
D20	CAUSGSN00005227	1/2 - 1 Mile NE
21	CADWR8000036891	1/2 - 1 Mile NE
23	76	1/2 - 1 Mile SSW
D24	CADWR0000012644	1/2 - 1 Mile NE
E25	CADDW0000015227	1/2 - 1 Mile NNW
E26	1685	1/2 - 1 Mile NNW
27	CADPR0000002585	1/2 - 1 Mile East

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

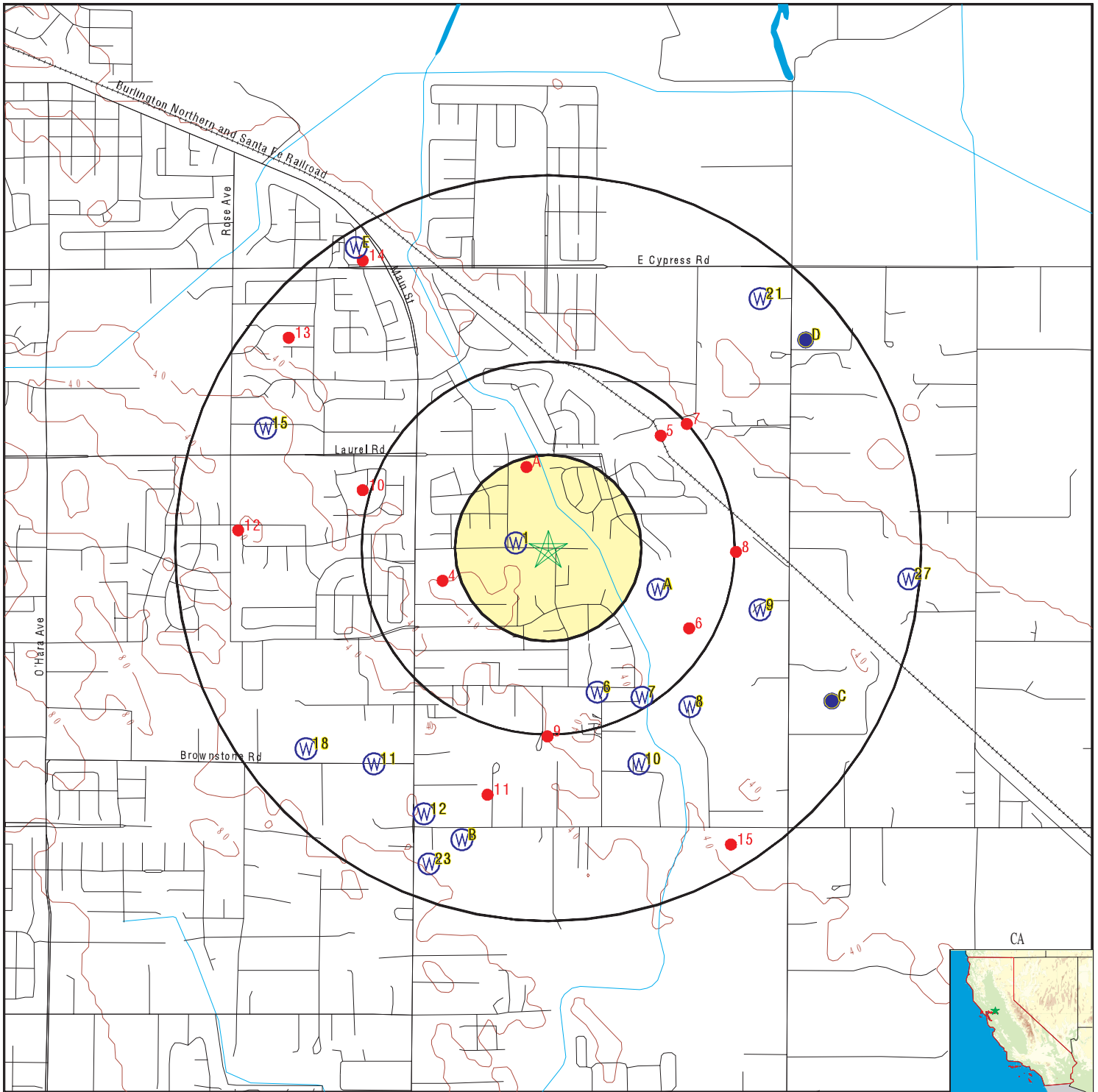
MAP ID	WELL ID	LOCATION FROM TP
A1	CAOG14000191732	1/8 - 1/4 Mile NNW
A2	CAOG14000191728	1/8 - 1/4 Mile North
A3	CAOG14000191730	1/8 - 1/4 Mile NNW
4	CAOG14000191729	1/4 - 1/2 Mile WSW
5	CAOG14000191733	1/4 - 1/2 Mile NE
6	CAOG14000191731	1/4 - 1/2 Mile ESE
7	CAOG14000191727	1/4 - 1/2 Mile NE
8	CAOG14000191734	1/2 - 1 Mile East
9	CAOG14000007511	1/2 - 1 Mile South
10	CAOG14000007469	1/2 - 1 Mile WNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
11	CAOG14000007484	1/2 - 1 Mile SSW
12	CAOG14000007541	1/2 - 1 Mile West
13	CAOG14000007462	1/2 - 1 Mile NW
14	CAOG14000202127	1/2 - 1 Mile NNW
15	CAOG14000007525	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 6371926.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Vacant Properties
 ADDRESS: 463 & 560 Honey Lane
 Oakley CA 94561
 LAT/LONG: 37.979701 / 121.689412

CLIENT: GeoSolve
 CONTACT: Robert Campbell
 INQUIRY #: 6371926.2s
 DATE: February 18, 2021 1:43 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
West
0 - 1/8 Mile
Lower **CA WELLS** **CADWR8000036864**

State Well #:	02N03E31C999M	Station ID:	48675
Well Name:	Creekside-CSMW	Well Use:	Observation
Well Type:	Single Well	Well Depth:	380
Basin Name:	Tracy	Well Completion Rpt #:	Not Reported

A2
ESE
1/4 - 1/2 Mile
Lower **CA WELLS** **CADDW0000011181**

Well ID:	0710007-009	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	STONECREEK WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0710007-009&store_num=		
GeoTracker Data:	Not Reported		

A3
ESE
1/4 - 1/2 Mile
Lower **CA WELLS** **CADWR8000036859**

State Well #:	02N03E31G997M	Station ID:	48679
Well Name:	Stonecreek-SCMW-360	Well Use:	Observation
Well Type:	Part of a nested/multi-completion well		
Well Depth:	360	Basin Name:	Tracy
Well Completion Rpt #:	Not Reported		

A4
ESE
1/4 - 1/2 Mile
Lower **CA WELLS** **CADWR8000036857**

State Well #:	02N03E31G999M	Station ID:	48677
Well Name:	Stonecreek-SCMW-160	Well Use:	Observation
Well Type:	Part of a nested/multi-completion well		
Well Depth:	160	Basin Name:	Tracy
Well Completion Rpt #:	Not Reported		

A5
ESE
1/4 - 1/2 Mile
Lower **CA WELLS** **CADWR8000036858**

State Well #:	02N03E31G998M	Station ID:	48678
Well Name:	Stonecreek-SCMW-300	Well Use:	Observation
Well Type:	Part of a nested/multi-completion well		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth:	300	Basin Name:	Tracy
Well Completion Rpt #:	Not Reported		

6
SSE
1/4 - 1/2 Mile
Higher **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

7
SSE
1/4 - 1/2 Mile
Higher **CA WELLS** **CADDW0000010638**

Well ID:	0710007-005	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GLEN PARK WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0710007-005&store_num=		
GeoTracker Data:	Not Reported		

8
SE
1/2 - 1 Mile
Higher **FED USGS** **USGS40000186347**

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N003E31K001M	HUC:	18040003
Description:	Not Reported	Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Contrib Drainage Area:	Not Reported		
Aquifer:	Central Valley aquifer system	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	150
Construction Date:	19760116	Well Hole Depth:	155
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1976-01-16
Feet below surface:	30.00	Feet to sea level:	Not Reported
Note:	Not Reported		

9
ESE
1/2 - 1 Mile
Lower **CA WELLS** **CADWR8000036856**

State Well #:	02N03E31H999M	Station ID:	48682
Well Name:	MW 5-35	Well Use:	Observation
Well Type:	Single Well	Well Depth:	20

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin Name: Tracy Well Completion Rpt #: Not Reported

**10
SSE
1/2 - 1 Mile
Higher**

FED USGS USGS40000186336

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N003E31Q001M	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:	19740625	Well Depth:	67
Well Depth Units:	ft	Well Hole Depth:	93
Well Hole Depth Units:	ft		

**11
SW
1/2 - 1 Mile
Higher**

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		

**12
SSW
1/2 - 1 Mile
Higher**

FED USGS USGS40000186322

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002N003E31N001M	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:	19780309	Well Depth:	93

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth Units:	ft	Well Hole Depth:	132
Well Hole Depth Units:	ft		
Ground water levels, Number of Measurements:		1	Level reading date:
Feet below surface:	42.00		1978-03-09
Note:	Not Reported	Feet to sea level:	Not Reported

**B13
SSW
1/2 - 1 Mile
Higher**

CA WELLS 1786

Seq:	1786	Prim sta c:	02N/03E-31N02 M
Frd 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		

**B14
SSW
1/2 - 1 Mile
Higher**

CA WELLS CADDW0000003952

Well ID:	0707591-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL HEAD	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0707591-001&store_num=		
GeoTracker Data:	Not Reported		

**15
WNW
1/2 - 1 Mile
Higher**

FED USGS USGS40000186398

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18040003
Monitor Location:	002N002E25Q001M	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported		
Contrib Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Aquifer:	Central Valley aquifer system	Well Depth:	90
Formation Type:	Not Reported		
Construction Date:	19731116		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Depth Units:	ft	Well Hole Depth:	126
Well Hole Depth Units:	ft		
Ground water levels, Number of Measurements:		1	Level reading date:
Feet below surface:	48.00		1973-11-16
Note:	Not Reported	Feet to sea level:	Not Reported

**B16
SSW
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		

**C17
ESE
1/2 - 1 Mile
Higher**

CA WELLS CADWR8000036846

State Well #:	02N03E32M999M	Station ID:	48683
Well Name:	MW 5-36	Well Use:	Observation
Well Type:	Single Well	Well Depth:	20
Basin Name:	Tracy	Well Completion Rpt #:	Not Reported

**18
SW
1/2 - 1 Mile
Higher**

CA WELLS CADDW0000013560

Well ID:	0706032-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL HEAD	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0706032-001&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D19
NE
1/2 - 1 Mile
Lower

FED USGS USGS40000186410

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18040003
Monitor Location:	002N003E29M001M	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	88
Aquifer:	Central Valley aquifer system	Well Hole Depth:	100
Formation Type:	Alluvial Fan Deposits		
Construction Date:	19760526		
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1976-05-26
Feet below surface:	12.00	Feet to sea level:	Not Reported
Note:	Not Reported		

D20
NE
1/2 - 1 Mile
Lower

CA WELLS CAUSGSN00005227

Well ID:	USGS-375916121403401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-375916121403401	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp_date=&global_id=&assigned_name=USGS-375916121403401&store_num=		
GeoTracker Data:	Not Reported		

21
NE
1/2 - 1 Mile
Lower

CA WELLS CADWR8000036891

State Well #:	02N03E30J999M	Station ID:	48681
Well Name:	MW 5-33	Well Use:	Observation
Well Type:	Single Well	Well Depth:	20
Basin Name:	Tracy	Well Completion Rpt #:	Not Reported

C22
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40000186349

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	18040003
Monitor Location:	002N003E32M001M	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported		
Contrib Drainage Area:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer:	Central Valley aquifer system	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	105
Construction Date:	19780510	Well Hole Depth:	125
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1978-05-10
Feet below surface:	21.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**23
SSW
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		

**D24
NE
1/2 - 1 Mile
Lower**

CA WELLS CADWR0000012644

Well ID:	02N03E29M001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02N03E29M001M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02N03E29M001M&store_num=		
GeoTracker Data:	Not Reported		

**E25
NNW
1/2 - 1 Mile
Lower**

CA WELLS CADDW0000015227

Well ID:	0707588-002	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELLHEAD- EAST WELL	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=0707588-002&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

E26
NNW
1/2 - 1 Mile
Lower

CA WELLS 1685

Seq:	1685	Prim sta c:	02N/02E-25H01 M
Frds no:	0707588001	County:	07
District:	37	User id:	07C
System no:	0707588	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	375930.0	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		

System no:	0707588	System nam:	Big Oak Trailer Court
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

Sample date:	12-SEP-17	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

Sample date:	27-JUL-16	Finding:	1600.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		

Sample date:	27-JUL-16	Finding:	7.77
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

Sample date:	27-JUL-16	Finding:	270.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

Sample date:	27-JUL-16	Finding:	320.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		

Sample date:	27-JUL-16	Finding:	8.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

Sample date:	27-JUL-16	Finding:	490.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

Sample date:	27-JUL-16	Finding:	110.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		

Sample date:	27-JUL-16	Finding:	52.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	27-JUL-16	Finding:	140.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	27-JUL-16	Finding:	4.3
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	27-JUL-16	Finding:	170.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	27-JUL-16	Finding:	300.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	27-JUL-16	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	27-JUL-16	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dir:	2.		
Sample date:	27-JUL-16	Finding:	93.
Chemical:	MANGANESE	Report units:	UG/L
Dir:	20.		
Sample date:	27-JUL-16	Finding:	24.
Chemical:	NICKEL	Report units:	UG/L
Dir:	10.		
Sample date:	27-JUL-16	Finding:	1100.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	27-JUL-16	Finding:	0.5
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		

**27
East
1/2 - 1 Mile
Lower**

CA WELLS CADPR000002585

Well ID:	90608	Well Type:	UNK
Source:	Department of Pesticide Regulation		
Other Name:	90608	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=90608&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

**A1
NNW
1/8 - 1/4 Mile**

OIL_GAS CAOG14000191732

API #:	0401320257	Well #:	3
Well Status:	Plugged	Well Type:	Gas
Lease Name:	Loo	Field Name:	Oakley Gas (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	Y
Spud Date:	11/22/1985		

**A2
North
1/8 - 1/4 Mile**

OIL_GAS CAOG14000191728

API #:	0401320169	Well #:	1
Well Status:	Plugged	Well Type:	Gas
Lease Name:	Loo	Field Name:	Oakley Gas (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	02/19/1981		

**A3
NNW
1/8 - 1/4 Mile**

OIL_GAS CAOG14000191730

API #:	0401320210	Well #:	2
Well Status:	Plugged	Well Type:	Gas
Lease Name:	Loo	Field Name:	Oakley Gas (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	07/22/1983		

**4
WSW
1/4 - 1/2 Mile**

OIL_GAS CAOG14000191729

API #:	0401320190	Well #:	1
Well Status:	Plugged	Well Type:	Gas
Lease Name:	Nunnally	Field Name:	Oakley Gas (ABD)
Area Name:	Any Area	GIS Source:	GPS
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/04/1983		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

5

NE
1/4 - 1/2 Mile

OIL_GAS CAOG14000191733

API #:	0401300149	Well #:	1
Well Status:	Plugged	Well Type:	Gas
Lease Name:	Machado	Field Name:	Oakley Gas (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	08/19/1962		

6

ESE
1/4 - 1/2 Mile

OIL_GAS CAOG14000191731

API #:	0401320245	Well #:	1
Well Status:	Plugged	Well Type:	Dry Gas
Lease Name:	Bacchini	Field Name:	Oakley Gas (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	04/03/1985		

7

NE
1/4 - 1/2 Mile

OIL_GAS CAOG14000191727

API #:	0401320059	Well #:	1
Well Status:	Plugged	Well Type:	Dry Hole
Lease Name:	Machado	Field Name:	Oakley Gas (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	12/19/1969		

8

East
1/2 - 1 Mile

OIL_GAS CAOG14000191734

API #:	0401300150	Well #:	1
Well Status:	Plugged	Well Type:	Gas
Lease Name:	Oakley Unit B	Field Name:	Oakley Gas (ABD)
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	09/19/1962		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

9
South
1/2 - 1 Mile

OIL_GAS CAOG14000007511

API #: 0401320216
Well Status: Plugged
Lease Name: Unit Six
Area Name: Any Area
Confidential Well: N
Spud Date: 10/08/1983

Well #: 1
Well Type: Dry Hole
Field Name: Any Field
GIS Source: hud
Directionally Drilled: N

10
WNW
1/2 - 1 Mile

OIL_GAS CAOG14000007469

API #: 0401320096
Well Status: Plugged
Lease Name: Honegger
Area Name: Any Area
Confidential Well: N
Spud Date: 10/01/1973

Well #: 1
Well Type: Dry Hole
Field Name: Any Field
GIS Source: hud
Directionally Drilled: N

11
SSW
1/2 - 1 Mile

OIL_GAS CAOG14000007484

API #: 0401320149
Well Status: Plugged
Lease Name: Register
Area Name: Any Area
Confidential Well: N
Spud Date: 09/23/1979

Well #: 1
Well Type: Dry Hole
Field Name: Any Field
GIS Source: hud
Directionally Drilled: N

12
West
1/2 - 1 Mile

OIL_GAS CAOG14000007541

API #: 0401320311
Well Status: Plugged
Lease Name: Duarte
Area Name: Any Area
Confidential Well: N
Spud Date: 10/03/1991

Well #: 1
Well Type: Dry Hole
Field Name: Any Field
GIS Source: hud
Directionally Drilled: Y

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

13
NW
1/2 - 1 Mile

OIL_GAS CAOG14000007462

API #: 0401320077
Well Status: Plugged
Lease Name: J.P. Mori
Area Name: Any Area
Confidential Well: N
Spud Date: 10/09/1972

Well #: 1
Well Type: Dry Hole
Field Name: Any Field
GIS Source: hud
Directionally Drilled: N

14
NNW
1/2 - 1 Mile

OIL_GAS CAOG14000202127

API #: 0401320260
Well Status: Plugged
Lease Name: Domingo
Area Name: Main
Confidential Well: N
Spud Date: 01/20/1986

Well #: 25-1
Well Type: Dry Hole
Field Name: River Break Gas
GIS Source: hud
Directionally Drilled: N

15
SSE
1/2 - 1 Mile

OIL_GAS CAOG14000007525

API #: 0401320262
Well Status: Plugged
Lease Name: Geddes
Area Name: Any Area
Confidential Well: N
Spud Date: 05/15/1986

Well #: 1
Well Type: Dry Hole
Field Name: Any Field
GIS Source: GPS
Directionally Drilled: N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94561	3	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.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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**BC LABORATORIES, INC. ANALYTICAL REPORT AND
CHAIN-OF-CUSTODY DOCUMENT**





Date of Report: 03/22/2021

Robert D. Campbell

GeoSolve, Incorporated- Grass Valley

111 Bank Street #392

Grass Valley, CA 95945

Client Project: 2021-03

BCL Project: Nuvera Homes - Oakley

BCL Work Order: 2108478

Invoice ID: B410572

Enclosed are the results of analyses for samples received by the laboratory on 3/12/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Tina Green
Client Services

Stuart Buttram
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody

21-08478

* Required Fields

Client/Company Name: **GeoSolve, Inc.** Report Attention: **Rob Campbell** Phone: **925-963-1198** FAX: **R** Email: **rcampbell@geosolve-inc.com**

Address: **111 Bank Street, Suite 392** City: **Grass Valley** State: **CA** Zip: **95945**

Project Information: **Nuvera Homes - Oakley** PO # **2021-03** BCL Quote #

How would you like your completed results sent? E-Mail Fax EDD Mail Only

Sampler Name Printed / Signature: **Rob Campbell** QC Request STD Level II STD 5 Day** 3 Day** Day**

Matrix Types: **SSW = Raw Surface Water** **CFW = Chlorinated Finished Water** **CWW = Chlorinated Waste Water** **BW = Boiled Water**
RCW = Raw Ground Water **FW = Finished Water** **WW = Waste Water** **SW = Storm Water** **DW = Drinking Water** **SO = Solid**

Sample #	Bottles	Sampled Date	Time	Sample Description / Location	Matrix	Comments / Station Code
-1	1	7-10-21		soil sample	SO	
-2	1					
-3	1					
-4	1					
-5	1					
-6	1					
-7	1					
-8	1					
-9	1					
-10	1					
-11	1					

ANALYSIS REQUESTED: **Organochlorine Pesticides**, **Arsenic**, **Lead**

Shipping Method: **CAO UPS GSO WALK-IN SVC FED EX OTHER** Cooling Method: **WET BLUE NONE**

Received for Lab by: (Signature and Printed Name) **Rob Campbell / 01/21/2021** Date: **3-10-21** Time: **11:00** Company: **GeoSolve**

Retinquished by: (Signature and Printed Name) **Rob Campbell / 01/21/2021** Date: **3-11-21** Time: **1515** Company: **BC LABS**

Received by (Signature and Print Name) **Rob Campbell / 01/21/2021** Date: **3-10-21** Time: **11:00** Company: **BC LABS**

Payment Received by (Signature and Print Name) **Rob Campbell / 01/21/2021** Date: **3-10-21** Time: **11:00** Company: **BC LABS**

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BC LABORATORIES
21-03478

Client/Company Name: **GeoSolve, Inc.** Report Attention: **Rob Campbell** Phone: 925-963-1198 FAX: #
 Address: **111 Bank Street, Suite 392 Grass Valley CA 95945** Zip: **95945** E-mail: **rcampbell@geosolve-inc.com**
 Project Information: **Nuvera Homes - Oakley** PO # **2021-03** BCL Quote #
 How would you like your completed results sent? E-mail Fax HDD Mail Only
 Sampler Name Printed / Signature: **Rob Campbell** QC Request STD Level II Result Request ** Surecharge STD 5 Day** 2 Day** Day**
 Matrix Types: **RSW = Raw Surface Water CW = Chlorinated Finished Water CWW = Chlorinated Waste Water BW = Bottled Water BW = Solid**
RCW = Raw Ground Water FW = Finished Water WP = Waste Water SW = Storm Water DW = Drinking Water

Sample #	# Boils	Sampled Date	Time	Sample Description / Location	Matrix	Comments / Station Code	Organochlorine Pesticides	Arsenic	Lead	ANALYSIS REQUESTED	
-12	1	3-10-21		soil sample	so		X	X			
-13	1						X	X			
-14	1						X	X			
-15	1						X	X			
-16	1						X	X			
-17	1						X	X			
-18	1						X	X			
-19	1						X	X			
-20	1						X	X			
-21	1			Background As sample			X	X			
-22	1						X	X			
Released by: Signature and Printed Name: [Signature] Date: 3-10-21 Time: 1440 Company: GeoSolve Received by: Signature and Printed Name: [Signature] Date: 3-11-21 Time: 1515 Company: BC LABS							Received for Lab by: Signature and Printed Name: [Signature] Date: 3-12-21 Time: 955 Company: BC LABS				

Shipping Method: **CAO UPS GSO WALK-IN SIVC FED EX OTHER** Cooling Method: **WET BLUE NONE**

5815-0010-0010-0010

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BC LABORATORIES

2108478

Client/Company Name: **GeoSolve, Inc.** Report Attention: **Rob Campbell** Phone: 925-963-1198 FAX: * * E-mail: rcampbell@geosolve-inc.com

Address: **111 Bank Street, Suite 392 Grass Valley CA 95945** Zip: **95945**

Project Information: **Nuvera Homes - Oakley** PO # **2021-03** BCL Quote # Mail Only

How would you like your completed results sent? E-mail Fax EDD Mail Only

QC Request STD Level II STD Day** Day** Day**

Sampler Name Printed / Signature: **Rob Campbell**

Matrix Types: RSW = Raw Surface Water CFW = Chlorinated Finished Water CWW = Chlorinated Waste Water BW = Bottled Water
 RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

Sample #	Bottles	Sampled Date	Sampled Time	Sample Description / Location	Matrix	Comments / Station Code
23	AS-3	3-10-21	11:40	Backyard AS Sample		
24	AS-4					
25	L-1			Soil sample		
26	L-2					
27	L-3					

Analyses Requested: Organochlorine Pesticides, Arsenic, Lead

Carbon Copies: CDHS Fresno Co EPA Merced Co Tulare Co Other: Regulatory Compliance Electronic Data Transfer: Y N

Received by (Signature and Print Name): **Rob Campbell / BCL** Date: **3-10-21** Time: **11:40** Company: **GeoSolve**

Received by (Signature and Print Name): **Rob Campbell / BCL** Date: **3-11-21** Time: **15:15** Company: **BC LABS**

Received for Lab by: (Signature and Printed Name) **Rob Campbell / BCL** Date: **3-12-21** Time: **9:55** Company: **BC LABS**

Shipping Method: **CAO UPS GSO WALK-IN SVC FED EX OTHER** Cooling Method: **WET BLUE NONE**

Checked/Cash/Card PIA # Amount: Initial:

FORM 4012-00 Rev 04/03

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BC LABORATORIES INC.		COOLER RECEIPT FORM		Page <u>1</u> Of <u>3</u>							
Submission #: <u>21-08478</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input type="checkbox"/> Other <input checked="" type="checkbox"/> (Specify) <u>GLS</u>			SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>95</u> Container: <u>GLASS</u> Thermometer ID: <u>274</u>		Date/Time <u>3-12-21 9:55</u>							
Temperature: (A) <u>3.9</u> °C / (C) <u>3.7</u> °C				Analyst Init <u>TKJ</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL - 504											
QT EPA 508/608/8160											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 801SM											
QT EPA 8370											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz IAR		<u>4oz</u>	<u>X10</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											

Comments: _____
 Sample Numbering Completed By: PRE Date/Time: 3/16/21 18:00 Rev 21 05/23/2016
 A = Actual / C = Corrected

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BC LABORATORIES INC.		COOLER RECEIPT FORM		Page 2 Of 2							
Submission #: 21-08478											
SHIPPING INFORMATION			SHIPPING CONTAINER		FREE LIQUID						
Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/>			Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/>		YES <input type="checkbox"/> NO <input type="checkbox"/>						
BC Lab Field Service <input type="checkbox"/> Other <input checked="" type="checkbox"/> (Specify) <u>ALS</u>			Other <input type="checkbox"/> (Specify) _____		W / S						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>95</u> Containe: <u>GLASS</u> Thermometer ID: <u>274</u>		Date/Time <u>3-12-21 9:55</u>							
		Temperature: (A) <u>3.9</u> °C / (C) <u>3.7</u> °C		Analyst Init <u>TKJ</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	20
QT PE UNPRES											
4oz / 5oz / 16oz PE UNPRES											
2oz Cr*											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 505/506/508											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 6015M											
QT EPA 8270											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR		<u>4oz</u>	<u>X10</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											

Comments: _____
 Sample Numbering Completed By: PRE Date/Time: 3/16/21 1700 Rev 21 05/23/2016
 A = Actual / C = Corrected

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BC LABORATORIES INC.		COOLER RECEIPT FORM			Page <u>3</u> Of <u>3</u>						
Submission #: <u>2108478</u>											
SHIPPING INFORMATION			SHIPPING CONTAINER		FREE LIQUID						
Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/>			Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/>		YES <input type="checkbox"/> NO <input type="checkbox"/>						
BC Lab Field Service <input type="checkbox"/> Other <input checked="" type="checkbox"/> (Specify) <u>ALS</u>			Other <input type="checkbox"/> (Specify) _____		- W / S						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received		Emissivity: <u>95</u>		Container: <u>glass</u>		Thermometer ID: <u>274</u>					
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Temperature: (A) <u>3.9</u> °C / (C) <u>3.7</u> °C		Date/Time <u>3-12-21 9:55</u>		Analyst Init <u>TKJ</u>					
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		2 1 2 2 2 3 2 4 2 5 2 6 2 7 8 9 10									
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶⁺											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 505/608/8109											
QT EPA 515.1/8150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 532.J											
3oz EPA 548											
QT EPA 549											
QT EPA 5015M											
QT EPA 5270											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR		<u>4oz x10 A A A A A A A</u>									
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											

Comments: _____
 Sample Numbering Completed By: PPE Date/Time: 3/16/21 1800 Rev 21 05/23/2016
 A = Actual / C = Corrected

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	Sampling Date:	Sample Depth:	Lab Matrix:	Sample Type:
2108478-01	COC Number:	---	03/12/2021 09:55	03/10/2021 00:00	---	Solids	Soil
	Project Number:	---					
	Sampling Location:	---					
	Sampling Point:	S-1					
	Sampled By:	---					
2108478-02	COC Number:	---	03/12/2021 09:55	03/10/2021 00:00	---	Solids	Soil
	Project Number:	---					
	Sampling Location:	---					
	Sampling Point:	S-2					
	Sampled By:	---					
2108478-03	COC Number:	---	03/12/2021 09:55	03/10/2021 00:00	---	Solids	Soil
	Project Number:	---					
	Sampling Location:	---					
	Sampling Point:	S-3					
	Sampled By:	---					
2108478-04	COC Number:	---	03/12/2021 09:55	03/10/2021 00:00	---	Solids	Soil
	Project Number:	---					
	Sampling Location:	---					
	Sampling Point:	S-4					
	Sampled By:	---					
2108478-05	COC Number:	---	03/12/2021 09:55	03/10/2021 00:00	---	Solids	Soil
	Project Number:	---					
	Sampling Location:	---					
	Sampling Point:	S-5					
	Sampled By:	---					
2108478-06	COC Number:	---	03/12/2021 09:55	03/10/2021 00:00	---	Solids	Soil
	Project Number:	---					
	Sampling Location:	---					
	Sampling Point:	S-6					
	Sampled By:	---					
2108478-07	COC Number:	---	03/12/2021 09:55	03/10/2021 00:00	---	Solids	Soil
	Project Number:	---					
	Sampling Location:	---					
	Sampling Point:	S-7					
	Sampled By:	---					

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2108478-08	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-8	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-09	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-9	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-10	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-10	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-11	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-11	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-12	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-12	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-13	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-13	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-14	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-14	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2108478-15	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-15	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-16	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-16	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-17	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-17	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-18	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-18	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-19	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-19	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-20	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	S-20	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			
2108478-21	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AS-1	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
	<hr/>			

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2108478-22	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AS-2	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
2108478-23	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AS-3	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
2108478-24	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	AS-4	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
2108478-25	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	L-1	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
2108478-26	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	L-2	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil
2108478-27	COC Number:	---	Receive Date:	03/12/2021 09:55
	Project Number:	---	Sampling Date:	03/10/2021 00:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	L-3	Lab Matrix:	Solids
	Sampled By:	---	Sample Type:	Soil

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-01) and Client Sample Name (S-1, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Row 1: 1, EPA-8081A, 03/17/21 12:15, 03/17/21 16:33, HKS, GC-17, 0.993, B103340, EPA 3550B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-01	Client Sample Name: S-1, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	3.0	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 02:47	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-02) and Client Sample Name (S-2, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Row 1: 1, EPA-8081A, 03/17/21 12:15, 03/17/21 16:50, HKS, GC-17, 1.010, B103340, EPA 3550B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-02	Client Sample Name: S-2, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	1.7	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21	03:02	JCC	PE-OP3	0.962	B103232	EPA 3050B

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
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Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2108478-03	Client Sample Name: S-3, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	2.5		1
4,4'-DDD	0.00020	mg/kg	0.00050	0.000064	EPA-8081A	1.0	J	1
4,4'-DDE	0.0025	mg/kg	0.00050	0.000095	EPA-8081A	1.0		1
4,4'-DDT	0.0019	mg/kg	0.00050	0.000040	EPA-8081A	1.0		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	0.030	mg/kg	0.050	0.0014	EPA-8081A	5	J	1
TCMX (Surrogate)	66.4	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	74.8	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/17/21 12:15	03/17/21 17:06	HKS	GC-17	0.984	B103340	EPA 3550B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-03	Client Sample Name: S-3, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	1.9	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:04	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-04) and Client Sample Name (S-4, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC summary table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-04	Client Sample Name: S-4, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.0	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:06	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Shows run details for EPA-8081A.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-05	Client Sample Name: S-5, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	5.2	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:08		JCC	PE-OP3	0.971	B103232	EPA 3050B

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2108478-06	Client Sample Name: S-6, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	2.5		1
4,4'-DDD	0.00042	mg/kg	0.00050	0.000064	EPA-8081A	1.0	J	1
4,4'-DDE	0.0049	mg/kg	0.00050	0.000095	EPA-8081A	1.0		1
4,4'-DDT	0.0039	mg/kg	0.00050	0.000040	EPA-8081A	1.0		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	0.037	mg/kg	0.050	0.0014	EPA-8081A	5	J	1
TCMX (Surrogate)	90.3	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	98.6	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/17/21 12:15	03/17/21 17:56	HKS	GC-17	1.010	B103340	EPA 3550B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-06	Client Sample Name: S-6, 3/10/2021 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	3.6	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21	03:09	JCC	PE-OP3	0.926	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2108478-07		Client Sample Name: S-7, 3/10/2021 12:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0025	0.000090	EPA-8081A	1.4	A10	1
alpha-BHC	ND	mg/kg	0.0025	0.00019	EPA-8081A		A10	1
beta-BHC	ND	mg/kg	0.0025	0.00024	EPA-8081A		A10	1
delta-BHC	ND	mg/kg	0.0025	0.00018	EPA-8081A		A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0025	0.000090	EPA-8081A	4.0	A10	1
Chlordane (Technical)	ND	mg/kg	0.25	0.0050	EPA-8081A	2.5	A10	1
4,4'-DDD	ND	mg/kg	0.0025	0.00032	EPA-8081A	1.0	A10	1
4,4'-DDE	0.0016	mg/kg	0.0025	0.00048	EPA-8081A	1.0	J,A10	1
4,4'-DDT	0.0013	mg/kg	0.0025	0.00020	EPA-8081A	1.0	J,A10	1
Dieldrin	ND	mg/kg	0.0025	0.00018	EPA-8081A	8.0	A10	1
Endosulfan I	ND	mg/kg	0.0025	0.00010	EPA-8081A		A10	1
Endosulfan II	ND	mg/kg	0.0025	0.00017	EPA-8081A		A10	1
Endosulfan sulfate	ND	mg/kg	0.0025	0.00013	EPA-8081A		A10	1
Endrin	ND	mg/kg	0.0025	0.00032	EPA-8081A	0.2	A10	1
Endrin aldehyde	ND	mg/kg	0.0025	0.000090	EPA-8081A		A10	1
Heptachlor	ND	mg/kg	0.0025	0.00043	EPA-8081A	4.7	A10	1
Heptachlor epoxide	ND	mg/kg	0.0025	0.000085	EPA-8081A		A10	1
Methoxychlor	ND	mg/kg	0.0025	0.00047	EPA-8081A	100	A10	1
Toxaphene	0.044	mg/kg	0.25	0.0070	EPA-8081A	5	J,A10	1
TCMX (Surrogate)	113	%	20 - 130 (LCL - UCL)		EPA-8081A		A10	1
Decachlorobiphenyl (Surrogate)	122	%	40 - 130 (LCL - UCL)		EPA-8081A		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/17/21 12:15	03/17/21 19:19	HKS	GC-17	4.967	B103340	EPA 3550B

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-07	Client Sample Name: S-7, 3/10/2021 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.4	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:11		JCC	PE-OP3	0.980	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-08) and Client Sample Name (S-8, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Row 1: 1, EPA-8081A, 03/17/21 12:15, 03/17/21 19:35, HKS, GC-17, 0.987, B103340, EPA 3550B

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-08	Client Sample Name: S-8, 3/10/2021 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	4.6	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:17	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-09) and Client Sample Name (S-9, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Shows two runs.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-09	Client Sample Name: S-9, 3/10/2021 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	3.3	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21	03:19	JCC	PE-OP3	0.962	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Shows run details for Run # 1.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-10	Client Sample Name: S-10, 3/10/2021 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.7	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:21		JCC	PE-OP3	0.980	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2108478-11	Client Sample Name: S-11, 3/10/2021 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	2.5		1
4,4'-DDD	0.00013	mg/kg	0.00050	0.000064	EPA-8081A	1.0	J	1
4,4'-DDE	0.0068	mg/kg	0.00050	0.000095	EPA-8081A	1.0		1
4,4'-DDT	0.0033	mg/kg	0.00050	0.000040	EPA-8081A	1.0		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	85.5	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	88.0	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/17/21 12:15	03/17/21 20:25	HKS	GC-17	1.007	B103340	EPA 3550B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-11	Client Sample Name: S-11, 3/10/2021 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.2	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:22		JCC	PE-OP3	0.935	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-12) and Client Sample Name (S-12, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC summary table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-12	Client Sample Name: S-12, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	3.3	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:24		JCC	PE-OP3	0.980	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-13) and Client Sample Name (S-13, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Row 1: 1, EPA-8081A, 03/17/21 12:15, 03/17/21 21:14, HKS, GC-17, 10.067, B103340, EPA 3550B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-13	Client Sample Name: S-13, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.3	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:26	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2108478-14	Client Sample Name: S-14, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	2.5		1
4,4'-DDD	0.00043	mg/kg	0.00050	0.000064	EPA-8081A	1.0	J	1
4,4'-DDE	0.049	mg/kg	0.0050	0.00095	EPA-8081A	1.0	A01	2
4,4'-DDT	0.014	mg/kg	0.00050	0.000040	EPA-8081A	1.0		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	86.9	%	20 - 130 (LCL - UCL)		EPA-8081A			1
Decachlorobiphenyl (Surrogate)	82.3	%	40 - 130 (LCL - UCL)		EPA-8081A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/17/21 12:15	03/17/21 21:31	HKS	GC-17	1.007	B103340	EPA 3550B
2	EPA-8081A	03/17/21 12:15	03/18/21 18:27	HKS	GC-17	10.067	B103340	EPA 3550B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-14	Client Sample Name: S-14, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.2	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:32	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-15) and Client Sample Name (S-15, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Shows two runs with details.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-15	Client Sample Name: S-15, 3/10/2021 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.4	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:34		JCC	PE-OP3	0.909	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Shows run details for EPA-8081A.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-16	Client Sample Name: S-16, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.4	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:36	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2108478-17	Client Sample Name: S-17, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0010	0.000036	EPA-8081A	1.4	A01	1
alpha-BHC	ND	mg/kg	0.0010	0.000076	EPA-8081A		A01	1
beta-BHC	ND	mg/kg	0.0010	0.000096	EPA-8081A		A01	1
delta-BHC	ND	mg/kg	0.0010	0.000074	EPA-8081A		A01	1
gamma-BHC (Lindane)	ND	mg/kg	0.0010	0.000036	EPA-8081A	4.0	A01	1
Chlordane (Technical)	ND	mg/kg	0.10	0.0020	EPA-8081A	2.5	A01	1
4,4'-DDD	0.00070	mg/kg	0.0010	0.00013	EPA-8081A	1.0	J,A01	1
4,4'-DDE	0.023	mg/kg	0.0025	0.00048	EPA-8081A	1.0	A01	2
4,4'-DDT	0.0058	mg/kg	0.0010	0.000080	EPA-8081A	1.0	A01	1
Dieldrin	ND	mg/kg	0.0010	0.000072	EPA-8081A	8.0	A01	1
Endosulfan I	ND	mg/kg	0.0010	0.000040	EPA-8081A		A01	1
Endosulfan II	ND	mg/kg	0.0010	0.000068	EPA-8081A		A01	1
Endosulfan sulfate	ND	mg/kg	0.0010	0.000052	EPA-8081A		A01	1
Endrin	ND	mg/kg	0.0010	0.00013	EPA-8081A	0.2	A01	1
Endrin aldehyde	ND	mg/kg	0.0010	0.000036	EPA-8081A		A01	1
Heptachlor	ND	mg/kg	0.0010	0.00017	EPA-8081A	4.7	A01	1
Heptachlor epoxide	ND	mg/kg	0.0010	0.000034	EPA-8081A		A01	1
Methoxychlor	ND	mg/kg	0.0010	0.00019	EPA-8081A	100	A01	1
Toxaphene	ND	mg/kg	0.10	0.0028	EPA-8081A	5	A01	1
TCMX (Surrogate)	45.7	%	20 - 130 (LCL - UCL)		EPA-8081A		A01	1
Decachlorobiphenyl (Surrogate)	43.5	%	40 - 130 (LCL - UCL)		EPA-8081A		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	03/17/21 12:15	03/17/21 23:26	HKS	GC-17	2.034	B103340	EPA 3550B
2	EPA-8081A	03/17/21 12:15	03/18/21 19:17	HKS	GC-17	5.085	B103340	EPA 3550B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-17	Client Sample Name: S-17, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.6	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:37	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Shows run details for EPA-8081A.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-18	Client Sample Name: S-18, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.2	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21	03:39	JCC	PE-OP3	0.971	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-19) and Client Sample Name (S-19, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Shows details for runs 1 and 2.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-19	Client Sample Name: S-19, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.5	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:41	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Table with 2 columns: BCL Sample ID (2108478-20) and Client Sample Name (S-20, 3/10/2021 12:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, TTLC Limits, Lab Quals, Run #. Lists various pesticides like Aldrin, alpha-BHC, beta-BHC, etc.

QC summary table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-20	Client Sample Name: S-20, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	4.0	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 09:45	03/19/21 03:43	JCC	PE-OP3	1	B103232	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-21	Client Sample Name: AS-1, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	3.8	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 12:00	03/19/21 13:48		JCC	PE-OP3	0.962	B103233	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-22	Client Sample Name: AS-2, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	3.6	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 12:00	03/19/21 13:50		JCC	PE-OP3	0.962	B103233	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-23	Client Sample Name: AS-3, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	3.3	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 12:00	03/19/21 13:52		JCC	PE-OP3	0.962	B103233	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-24	Client Sample Name: AS-4, 3/10/2021 12:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Arsenic	2.3	mg/kg	1.0	0.40	EPA-6010B	500		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6010B	03/18/21 12:00	03/19/21 13:31	JCC	PE-OP3	1	B103233	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-25	Client Sample Name: L-1, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Lead	7.0	mg/kg	2.5	0.41	EPA-6010B	1000		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 12:00	03/19/21 13:54		JCC	PE-OP3	0.971	B103233	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-26	Client Sample Name: L-2, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Lead	3.6	mg/kg	2.5	0.41	EPA-6010B	1000		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 12:00	03/19/21 13:55		JCC	PE-OP3	0.971	B103233	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

BCL Sample ID: 2108478-27	Client Sample Name: L-3, 3/10/2021 12:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Lead	7.9	mg/kg	12	2.0	EPA-6010B	1000	J	1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6010B	03/18/21 12:00	03/19/21 13:57		JCC	PE-OP3	4.854	B103233	EPA 3050B

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B103340						
Aldrin	B103340-BLK1	ND	mg/kg	0.00050	0.000018	
alpha-BHC	B103340-BLK1	ND	mg/kg	0.00050	0.000038	
beta-BHC	B103340-BLK1	ND	mg/kg	0.00050	0.000048	
delta-BHC	B103340-BLK1	ND	mg/kg	0.00050	0.000037	
gamma-BHC (Lindane)	B103340-BLK1	ND	mg/kg	0.00050	0.000018	
Chlordane (Technical)	B103340-BLK1	ND	mg/kg	0.050	0.0010	
4,4'-DDD	B103340-BLK1	ND	mg/kg	0.00050	0.000064	
4,4'-DDE	B103340-BLK1	ND	mg/kg	0.00050	0.000095	
4,4'-DDT	B103340-BLK1	ND	mg/kg	0.00050	0.000040	
Dieldrin	B103340-BLK1	ND	mg/kg	0.00050	0.000036	
Endosulfan I	B103340-BLK1	ND	mg/kg	0.00050	0.000020	
Endosulfan II	B103340-BLK1	ND	mg/kg	0.00050	0.000034	
Endosulfan sulfate	B103340-BLK1	ND	mg/kg	0.00050	0.000026	
Endrin	B103340-BLK1	ND	mg/kg	0.00050	0.000065	
Endrin aldehyde	B103340-BLK1	ND	mg/kg	0.00050	0.000018	
Heptachlor	B103340-BLK1	ND	mg/kg	0.00050	0.000086	
Heptachlor epoxide	B103340-BLK1	ND	mg/kg	0.00050	0.000017	
Methoxychlor	B103340-BLK1	ND	mg/kg	0.00050	0.000094	
Toxaphene	B103340-BLK1	ND	mg/kg	0.050	0.0014	
TCMX (Surrogate)	B103340-BLK1	86.5	%	20 - 130 (LCL - UCL)		
Decachlorobiphenyl (Surrogate)	B103340-BLK1	99.4	%	40 - 130 (LCL - UCL)		

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B103340											
Aldrin	B103340-BS1	LCS	0.0047141	0.0049342	mg/kg	95.5		70	130		
gamma-BHC (Lindane)	B103340-BS1	LCS	0.0045970	0.0049342	mg/kg	93.2		60	140		
4,4'-DDT	B103340-BS1	LCS	0.0048398	0.0049342	mg/kg	98.1		60	140		
Dieldrin	B103340-BS1	LCS	0.0048865	0.0049342	mg/kg	99.0		70	130		
Endrin	B103340-BS1	LCS	0.0043441	0.0049342	mg/kg	88.0		60	140		
Heptachlor	B103340-BS1	LCS	0.0051803	0.0049342	mg/kg	105		60	140		
TCMX (Surrogate)	B103340-BS1	LCS	0.010729	0.0098684	mg/kg	109		20	130		
Decachlorobiphenyl (Surrogate)	B103340-BS1	LCS	0.021999	0.019737	mg/kg	111		40	130		

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Organochlorine Pesticides (EPA Method 8081A)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B103340		Used client sample: N								
Aldrin	MS	2108269-24	ND	0.0046939	0.0050505	mg/kg		92.9		50 - 140
	MSD	2108269-24	ND	0.0046666	0.0049180	mg/kg	0.6	94.9	30	50 - 140
gamma-BHC (Lindane)	MS	2108269-24	ND	0.0043290	0.0050505	mg/kg		85.7		50 - 140
	MSD	2108269-24	ND	0.0043977	0.0049180	mg/kg	1.6	89.4	30	50 - 140
4,4'-DDT	MS	2108269-24	ND	0.0048428	0.0050505	mg/kg		95.9		50 - 140
	MSD	2108269-24	ND	0.0050102	0.0049180	mg/kg	3.4	102	30	50 - 140
Dieldrin	MS	2108269-24	ND	0.0049620	0.0050505	mg/kg		98.2		40 - 140
	MSD	2108269-24	ND	0.0049587	0.0049180	mg/kg	0.1	101	30	40 - 140
Endrin	MS	2108269-24	ND	0.0042993	0.0050505	mg/kg		85.1		50 - 150
	MSD	2108269-24	ND	0.0045564	0.0049180	mg/kg	5.8	92.6	30	50 - 150
Heptachlor	MS	2108269-24	ND	0.0049909	0.0050505	mg/kg		98.8		60 - 140
	MSD	2108269-24	ND	0.0050892	0.0049180	mg/kg	1.9	103	30	60 - 140
TCMX (Surrogate)	MS	2108269-24	ND	0.0091899	0.010101	mg/kg		91.0		20 - 130
	MSD	2108269-24	ND	0.0090266	0.0098361	mg/kg	1.8	91.8		20 - 130
Decachlorobiphenyl (Surrogate)	MS	2108269-24	ND	0.022169	0.020202	mg/kg		110		40 - 130
	MSD	2108269-24	ND	0.023488	0.019672	mg/kg	5.8	119		40 - 130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTL)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B103232						
Arsenic	B103232-BLK1	ND	mg/kg	1.0	0.40	
QC Batch ID: B103233						
Arsenic	B103233-BLK1	ND	mg/kg	1.0	0.40	
Lead	B103233-BLK1	ND	mg/kg	2.5	0.41	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B103232											
Arsenic	B103232-BS1	LCS	18.313	20.000	mg/kg	91.6		75	125		
QC Batch ID: B103233											
Arsenic	B103233-BS1	LCS	18.966	20.000	mg/kg	94.8		75	125		
Lead	B103233-BS1	LCS	107.95	100.00	mg/kg	108		75	125		

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B103232		Used client sample: Y - Description: S-1, 03/10/2021 00:00									
Arsenic	DUP	2108478-01	2.9885	2.7016		mg/kg	10.1		20		
	MS	2108478-01	2.9885	19.776	20.000	mg/kg		83.9		75 - 125	
	MSD	2108478-01	2.9885	20.296	20.000	mg/kg	2.6	86.5	20	75 - 125	
QC Batch ID: B103233		Used client sample: Y - Description: AS-4, 03/10/2021 00:00									
Arsenic	DUP	2108478-24	2.2670	1.9534		mg/kg	14.9		20		
	MS	2108478-24	2.2670	19.744	20.000	mg/kg		87.4		75 - 125	
	MSD	2108478-24	2.2670	19.872	20.000	mg/kg	0.6	88.0	20	75 - 125	
Lead	DUP	2108478-24	5.6386	6.2522		mg/kg	10.3		20		
	MS	2108478-24	5.6386	100.83	100.00	mg/kg		95.2		75 - 125	
	MSD	2108478-24	5.6386	96.269	100.00	mg/kg	4.6	90.6	20	75 - 125	

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GeoSolve, Incorporated- Grass Valley
111 Bank Street #392
Grass Valley, CA 95945

Reported: 03/22/2021 13:23
Project: Nuvera Homes - Oakley
Project Number: 2021-03
Project Manager: Robert D. Campbell

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A10 Detection and quantitation limits were raised due to matrix interference.
- A20 Surrogate is low due to matrix interference. Interference verified through second extraction/analysis.

Appendix G
Preliminary Storm Drainage Study

CITY OF OAKLEY

HONEY / CREEKSIDE
SUBDIVISION 9579

**PRELIMINARY
STORM DRAIN STUDY**

Prepared by:

CARLSON, BARBEE & GIBSON, INC.
2633 Camino Ramon, Suite 350
San Ramon, CA 94583

City of Oakley
Planning Division

NOV 09, 02021

NOVEMBER 2021

RECEIVED

HONEY / CREEKSIDE
STORM DRAIN STUDY

TABLE OF CONTENTS

Executive Summary	2
Introduction	3
Study Area	4
Flow Projections	5
System Design	6

Appendix A: Study Area Hydrology Map

Appendix B: Contra Costa County 10-Year Storm Intensity Curve
Proposed CCCFCD Standard (Rational Method)

Appendix C: 10-year Hydraulic Analysis

Appendix D: Runoff Coefficients (C-Values)

HONEY / CREEKSIDE STORM DRAIN STUDY

EXECUTIVE SUMMARY

This study presents the design for the installation of storm drain facilities for Subdivision 9579 within the City of Oakley, California. Rational formula calculations are provided for the sizing of all pipes in the system. The system has been designed to account for existing flows from Honey Lane & Salvador Lane.

The study area limits are delineated on the Hydrology Map in Appendix A of this report.

The new storm drain trunk lines serving Honey / Creekside are 18 inches in diameter. The proposed improvements will be maintained by the City of Oakley.

HONEY / CREEKSIDE STORM DRAIN STUDY

INTRODUCTION

This preliminary design study was prepared to size and analyze the proposed storm drain system for Subdivision 9579.

SCOPE OF WORK:

The scope of this study includes:

- 1) Preparation of hydrology and hydraulic calculations for the study area, including the sizing of all trunk lines in accordance with Contra Costa County design criteria.
- 2) Preparation of an exhibit of the study area showing the proposed sizes, routing and hydrology areas.

ORGANIZATION:

This report is arranged in the following sections:

- Study Area: Defines the limits of this report.
- Flow Projections: Provides assumptions for the hydrology and hydraulic calculations of the study area.
- System Design: Design criteria, resulting pipe sizes, slopes and layout.

STUDY AREA

The study area lies within the City of Oakley and is bound by Creekside Park to the north, Marsh Creek & Salvador Lane to the east, Subdivision 8727 to the south and Tract 9498 west.

The exact limits of the drainage area are delineated on the Study Area Hydrology Map in Appendix A of this report.

All calculations were done in accordance to the Contra Costa County Flood Control District design criteria. These design criteria are intended to demonstrate that runoff from storms up to the ten (10) year frequency are conveyed through storm facilities and discharged in a manner which protects public and private improvements from flood hazards.

LAND USE

Existing Conditions:

Currently, the land within the drainage area is largely vacant & unimproved, with exception of existing Honey Lane roadway improvements and a residential home on the southern parcel. The natural drainage of the site conveys stormwater west towards Marsh Creek and Salvador Lane. The site lies within the Lower Marsh Creek watershed. The entire site is sheet graded, with elevations ranging from 27'± to 33'±.

Future Conditions:

The Honey / Creekside project is comprised of approximately 10.6 acres which will provide 57 single family lots. The tentative map for Honey / Creekside is being processed by the City of Oakley.

FLOW PROJECTIONS

Assumptions were made during the design of this project. All assumptions not included in either the city or county's design criteria are based on reasonable and responsible engineering practices.

Specifically, these assumptions include:

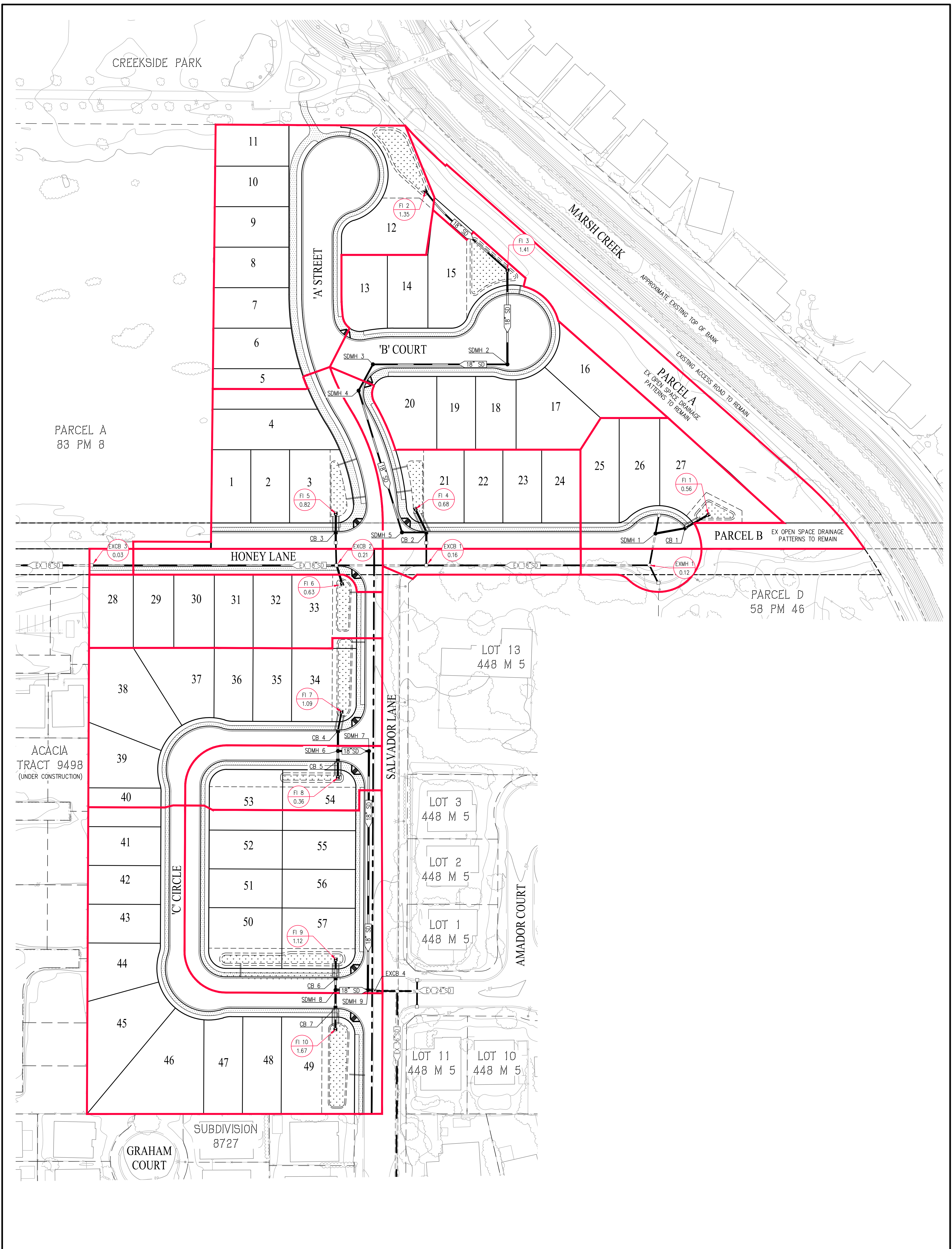
1. Hydraflow, a hydraulic and hydrology software package, was used to determine flow rates using the rational method. Junction losses were accounted for and are given in the attached set of calculations.
2. Time of concentration, T_c , was determined assuming a roof to gutter time of 5 minutes for residential and an overland flow rate of 2 feet per second. T_c 's were determined for all upstream nodes, and the overall time of concentration at any given point in the system was then calculated by Hydraflow. (See attached calculations in Appendix C.)
3. The system is designed for a 10 year event and the Contra Costa County 10 year storm intensity curve (Appendix B) was used to generate flow rates.
4. The C-Value for use in the rational formula, $Q=CIA$, is 0.67 for the ultimate residential buildout of Honey / Creekside. C-Values of 0.3 and 0.9 were applied to pervious and impervious areas, respectively.
5. The Manning's roughness coefficient, n , used in Hydraflow was set at 0.013 for all storm drain facilities.
6. The starting 10-year event water surface elevation (WSE) at the connection points to the existing storm drain system are 26.93 in Salvador Lane and 24.79 in Honey Lane as modeled in the as-built improvement plans for Honey and Salvador Lanes, by Bellecci & Associates dated May, 2000.

SYSTEM DESIGN

SYSTEM DESIGN CRITERIA:

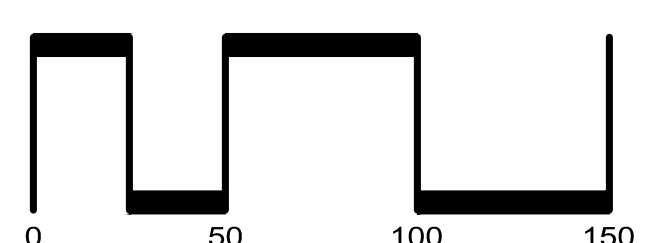
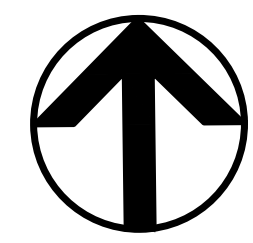
- 1) Minimum fluid velocity in any storm drain pipe is 2 feet per second when flowing full.
- 2) City of Oakley minimum storm drain pipe slope is 0.0030.
- 3) City of Oakley maximum structure (i.e. catch basin, manhole, field inlet) spacing is 400 feet on average.
- 4) Minimum vertical clearance with any sanitary sewer crossing is six inches (6").
- 5) Minimum vertical clearance with any water main crossing is 12 inches (12").
- 6) Freeboard is 1.25' to gutter flow line.

APPENDIX A



HONEY / CREEKSIDE HYDROLOGY MAP SUBDIVISION 9579

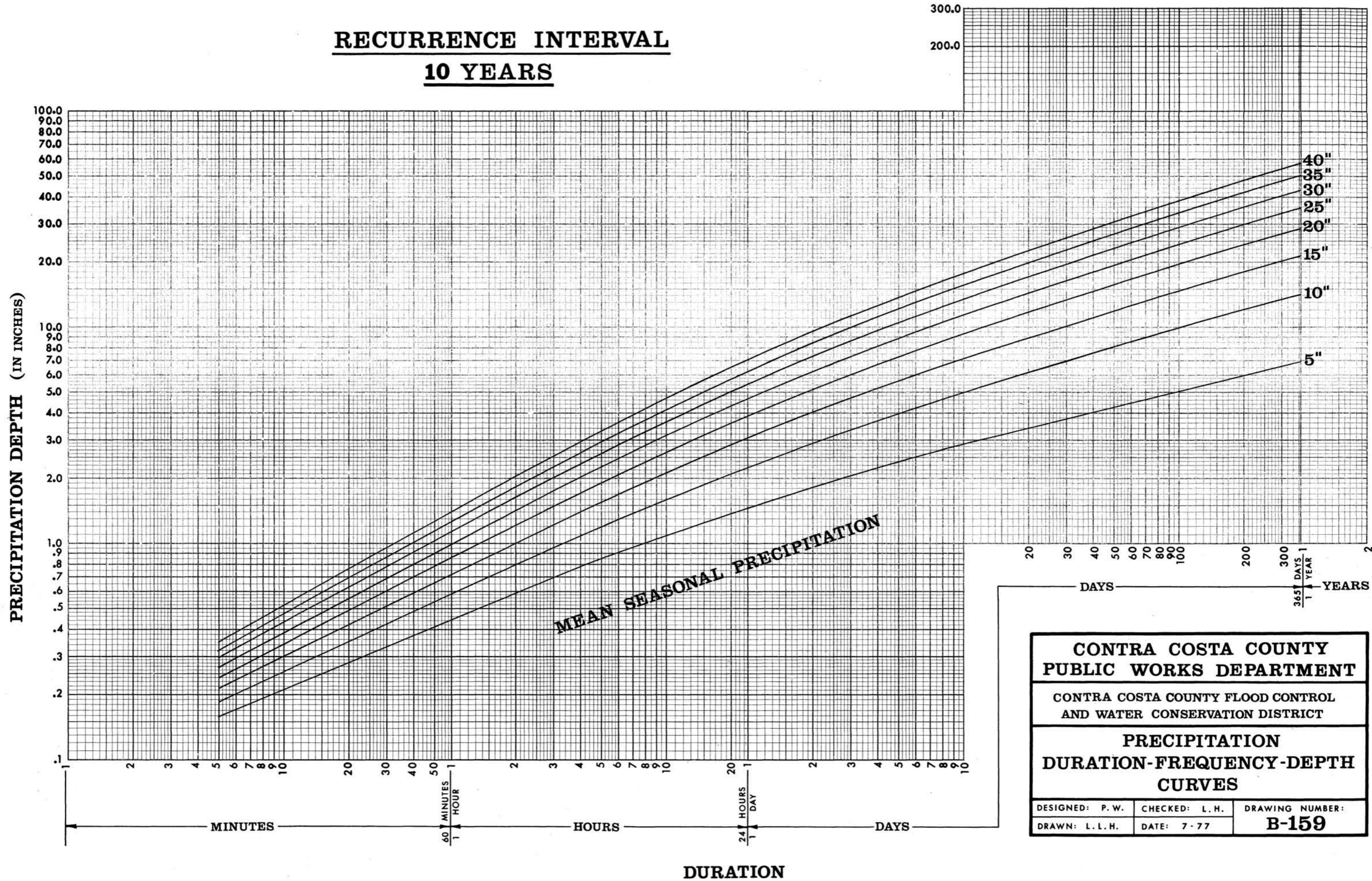
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA
SCALE: 1" = 50' DATE: NOVEMBER, 2021



SAN RAMON • (925) 866-0322
ROSEVILLE • (916) 788-4456
WWW.CBANDG.COM
CIVIL ENGINEERS • SURVEYORS • PLANNERS

APPENDIX B

RECURRENCE INTERVAL
10 YEARS



CONTRA COSTA COUNTY PUBLIC WORKS DEPARTMENT		
CONTRA COSTA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		
PRECIPITATION DURATION-FREQUENCY-DEPTH CURVES		
DESIGNED: P. W.	CHECKED: L. H.	DRAWING NUMBER:
DRAWN: L. L. H.	DATE: 7-77	B-159

APPENDIX C

SD Design

Line No.	Inlet ID	Line ID	Drng Area	Total Area	Runoff Coeff	Total CxA	Tc	i Sys	Known Q	Flow Rate	Capac Full	Vel Up	Line Size	Line Slope	Line Length	Invert Up	HGL Jnct	Gnd/Rim El Up	Rim-Hw
			(ac)	(ac)	(C)		(min)	(in/hr)	(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)
31	FI 9	FI 9 - CB 6	1.12	1.12	0.67	0.75	7.6	1.82	0.00	1.36	5.61	0.77	18	0.29	21.000	24.04	27.01	28.05	1.04
30	CB 6	CB 6 - SDMH 8	0.00	1.12	0.00	0.75	8.1	1.76	0.00	1.32	6.18	0.75	18	0.35	14.458	23.98	27.00	28.80	1.80
29	FI 10	FI 10 - CB 7	1.67	1.67	0.67	1.12	8.3	1.73	0.00	1.94	5.64	1.10	18	0.29	24.248	24.07	27.03	28.05	1.02
28	CB 7	CB 7 - SDMH 8	0.00	1.67	0.00	1.12	8.7	1.70	0.00	1.90	5.99	1.07	18	0.32	21.542	24.00	27.00	28.80	1.80
27	SDMH 8	SDMH 8 - SDMH 9	0.00	2.79	0.00	1.87	9.0	1.66	0.00	3.11	5.69	1.76	18	0.29	37.501	23.93	26.99	28.70	1.71
26	FI 8	FI 8 - CB 5	0.36	0.36	0.67	0.24	6.5	1.97	0.00	0.47	5.38	0.27	18	0.26	19.036	24.85	27.02	29.20	2.18
25	CB 5	CB 5 - SDMH 6	0.00	0.36	0.00	0.24	7.7	1.81	0.00	0.44	6.06	0.25	18	0.33	12.000	24.80	27.01	29.90	2.89
24	FI 7	FI 7 - CB 4	1.09	1.09	0.67	0.73	7.1	1.88	0.00	1.37	5.96	0.78	18	0.32	21.736	24.90	27.03	29.20	2.17
23	CB 4	CB 4 - SDMH 6	0.00	1.09	0.00	0.73	7.6	1.82	0.00	1.33	5.65	0.75	18	0.29	24.150	24.83	27.02	29.90	2.88
22	SDMH 6	SDMH 6 - SDMH 7	0.00	1.45	0.00	0.97	8.5	1.71	0.00	1.67	5.80	0.94	18	0.31	36.000	24.76	27.01	29.70	2.69
21	SDMH 7	SDMH 7 - SDMH 9	0.00	1.45	0.00	0.97	9.1	1.65	0.00	1.60	5.75	0.91	18	0.30	277.265	24.65	26.99	30.00	3.01
20	SDMH 9	SDMH 9 - EX CB 4	0.00	4.24	0.00	2.84	14.2	1.31	0.00	3.73	21.93	0.76	30	0.29	6.998	23.82	26.91	29.00	2.09
19	EX CB 4	EX CB 4 - Salvador	0.00	4.24	0.00	2.84	14.3	1.31	0.00	3.71	22.32	0.76	30	0.30	27.017	23.80	26.90	29.10	2.20
18	FI 6	FI 6 - EX CB 2	0.63	0.63	0.67	0.42	7.0	1.89	0.00	0.80	5.92	0.45	18	0.32	22.034	24.07	25.73	27.50	1.77
17	FI 4	FI 4 - CB 2	0.68	0.68	0.67	0.46	6.7	1.94	0.00	0.88	5.84	0.50	18	0.31	29.051	24.51	26.08	27.40	1.32
16	FI 5	FI 5 - CB 3	0.82	0.82	0.67	0.55	6.9	1.91	0.00	1.05	5.61	0.90	18	0.29	21.011	24.80	25.75	27.40	1.65
15	CB 3	CB 3 - EX CB 2	0.00	0.82	0.00	0.55	7.3	1.86	0.00	1.02	9.13	0.98	15	2.00	40.007	24.74	25.74	28.15	2.41
14	FI 1	FI 1 - CB 1	0.56	0.56	0.67	0.38	6.1	2.03	0.00	0.76	5.73	1.63	18	0.30	30.208	25.60	26.11	28.97	2.86
13	CB 1	CB 1 - SDMH 1	0.00	0.56	0.00	0.38	6.4	1.99	0.00	0.75	5.82	1.33	18	0.31	35.755	25.51	26.05	29.10	3.05
12	SDMH 1	SDMH 1 - EX SDMH 1	0.00	0.56	0.00	0.38	6.7	1.93	0.00	0.72	6.19	0.86	18	0.35	37.394	25.30	26.03	29.94	3.91
11	EX SDMH 1	EX SDMH 1 - EX CB 1	0.12	0.68	0.67	0.46	7.4	1.84	0.00	0.84	4.75	0.70	18	0.20	259.037	25.05	26.02	29.71	3.69
10	FI 2	FI 2 - Null	1.35	1.35	0.67	0.90	8.7	1.69	0.00	1.53	5.80	2.25	18	0.31	52.440	26.32	26.94 i	28.90	1.96
9	Null	Null - FI 3	0.00	1.35	0.00	0.90	9.1	1.65	0.00	1.49	5.77	1.76	18	0.30	79.619	26.16	26.89	29.50	2.61

Project File: Honey Lane_VTM_Nov 2021.stm

Number of lines: 31

Date: 11/3/2021

NOTES: Intensity = 5.28 / (Inlet time + 0.10) ^ 0.52 -- Return period = 10 Yrs. ; i Inlet control; ** Critical depth

SD Design

Line No.	Inlet ID	Line ID	Drng Area	Total Area	Runoff Coeff	Total CxA	Tc	i Sys	Known Q	Flow Rate	Capac Full	Vel Up	Line Size	Line Slope	Line Length	Invert Up	HGL Jct	Gnd/Rim El Up	Rim-Hw
			(ac)	(ac)	(C)		(min)	(in/hr)	(cfs)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)
8	FI 3	FI 3 - SDMH 2	1.41	2.76	0.67	1.85	10.0	1.57	0.00	2.91	5.77	3.16	18	0.30	109.436	25.92	26.86 i	28.10	1.24
7	SDMH 2	SDMH 2 - SDMH 3	0.00	2.76	0.00	1.85	10.6	1.53	0.00	2.82	5.76	2.66	18	0.30	156.062	25.59	26.51 i	30.00	3.49
6	SDMH 3	SDMH 3 - SDMH 4	0.00	2.76	0.00	1.85	11.7	1.45	0.00	2.69	5.63	1.85	18	0.29	34.735	25.12	26.32	31.10	4.78
5	SDMH 4	SDMH 4 - SDMH 5	0.00	2.76	0.00	1.85	12.0	1.44	0.00	2.65	5.77	1.76	18	0.30	172.037	25.02	26.25	30.70	4.45
4	SDMH 5	SDMH 5 - CB 2	0.00	2.76	0.00	1.85	13.6	1.34	0.00	2.48	5.59	1.40	18	0.28	28.194	24.50	26.12	28.10	1.98
3	CB 2	CB 2 - EX CB 1	0.00	3.44	0.00	2.30	14.0	1.32	0.00	3.05	5.81	1.73	18	0.31	39.170	24.42	26.07	28.15	2.08
2	EX CB 1	EX CB 1 - EX CB 2	0.16	4.28	0.67	2.87	14.4	1.31	0.00	3.74	5.24	2.12	18	0.25	104.315	24.28	25.99	28.06	2.07
1	EX CB 2	EX CB 2 - Honey	0.21	5.94	0.67	3.98	15.2	1.27	0.00	5.04	5.68	2.85	18	0.29	283.998	23.68	25.73	28.02	2.29

Project File: Honey Lane_VTM_Nov 2021.stm

Number of lines: 31

Date: 11/3/2021

NOTES: Intensity = 5.28 / (Inlet time + 0.10) ^ 0.52 -- Return period = 10 Yrs. ; i Inlet control; ** Critical depth

Hydraulic Grade Line Computations

Line	Size (in)	Q (cfs)	Downstream								Len (ft)	Upstream								Check		JL coeff (K)	Minor loss (ft)
			Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)		Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)		
31	18	1.36	23.98	27.00	1.50	1.77	0.77	0.01	27.01	0.017	21.000	24.04	27.00	1.50	1.77	0.77	0.01	27.01	0.017	0.017	0.004	1.00	0.01
30	18	1.32	23.93	26.99	1.50	1.77	0.75	0.01	27.00	0.016	14.458	23.98	27.00	1.50	1.77	0.75	0.01	27.01	0.016	0.016	0.002	0.15	0.00
29	18	1.94	24.00	27.00	1.50	1.77	1.10	0.02	27.02	0.034	24.248	24.07	27.01	1.50	1.77	1.10	0.02	27.03	0.034	0.034	0.008	1.00	0.02
28	18	1.90	23.93	26.99	1.50	1.77	1.07	0.02	27.01	0.033	21.542	24.00	27.00	1.50	1.77	1.07	0.02	27.02	0.033	0.033	0.007	0.15	0.00
27	18	3.11	23.82	26.91	1.50	1.77	1.76	0.05	26.96	0.088	37.501	23.93	26.95	1.50	1.77	1.76	0.05	26.99	0.088	0.088	0.033	1.00	0.05
26	18	0.47	24.80	27.01	1.50	1.77	0.27	0.00	27.02	0.002	19.036	24.85	27.01	1.50	1.77	0.27	0.00	27.02	0.002	0.002	0.000	1.00	0.00
25	18	0.44	24.76	27.01	1.50	1.77	0.25	0.00	27.01	0.002	12.000	24.80	27.01	1.50	1.77	0.25	0.00	27.01	0.002	0.002	0.000	0.15	0.00
24	18	1.37	24.83	27.02	1.50	1.77	0.78	0.01	27.03	0.017	21.736	24.90	27.02	1.50	1.77	0.78	0.01	27.03	0.017	0.017	0.004	1.00	0.01
23	18	1.33	24.76	27.01	1.50	1.77	0.75	0.01	27.02	0.016	24.150	24.83	27.02	1.50	1.77	0.75	0.01	27.03	0.016	0.016	0.004	0.22	0.00
22	18	1.67	24.65	26.99	1.50	1.77	0.94	0.01	27.00	0.025	36.000	24.76	27.00	1.50	1.77	0.94	0.01	27.01	0.025	0.025	0.009	1.00	0.01
21	18	1.60	23.82	26.91	1.50	1.77	0.91	0.01	26.93	0.023	277.265	24.65	26.98	1.50	1.77	0.91	0.01	26.99	0.023	0.023	0.065	1.00	0.01
20	30	3.73	23.80	26.90	2.50	4.91	0.76	0.01	26.91	0.008	6.998	23.82	26.90	2.50	4.91	0.76	0.01	26.91	0.008	0.008	0.001	1.00	0.01
19	30	3.71	23.72	26.90	2.50	4.91	0.76	0.01	26.91	0.008	27.017	23.80	26.90	2.50	4.91	0.76	0.01	26.91	0.008	0.008	0.002	0.15	0.00
18	18	0.80	24.00	25.73	1.50	1.77	0.45	0.00	25.73	0.006	22.034	24.07	25.73	1.50	1.77	0.45	0.00	25.73	0.006	0.006	0.001	1.00	0.00
17	18	0.88	24.42	26.07	1.50	1.77	0.50	0.00	26.07	0.007	29.051	24.51	26.07	1.50	1.77	0.50	0.00	26.08	0.007	0.007	0.002	1.00	0.00
16	18	1.05	24.74	25.74	1.00	1.25	0.84	0.01	25.75	0.016	21.011	24.80	25.74	0.94	1.16	0.90	0.01	25.75	0.020	0.018	0.004	1.00	0.01
15	15	1.02	23.94	25.73	1.25	1.23	0.83	0.01	25.74	0.025	40.007	24.74	25.73	0.99	1.05	0.98	0.01	25.75	0.027	0.026	0.010	0.15	0.00
14	18	0.76	25.51	26.05	0.54	0.58	1.32	0.03	26.08	0.067	30.208	25.60	26.07	0.47	0.47	1.63	0.04	26.11	0.120	0.094	0.028	1.00	0.04
13	18	0.75	25.40	26.03	0.63	0.71	1.05	0.02	26.05	0.037	35.755	25.51	26.04	0.53	0.56	1.33	0.03	26.07	0.069	0.053	0.019	0.37	0.01
12	18	0.72	25.17	26.02	0.85	1.03	0.70	0.01	26.03	0.013	37.394	25.30	26.02	0.72	0.84	0.86	0.01	26.03	0.022	0.017	0.006	0.94	0.01
11	18	0.84	24.52	25.99	1.47	1.76	0.48	0.00	25.99	0.006	259.037	25.05	26.01	0.96	1.19	0.70	0.01	26.02	0.012	0.009	0.023	1.48	0.01
10	18	1.53	26.16	26.89	0.73	0.86	1.78	0.05	26.94	n/a	52.440	26.32	26.93	0.61	0.68	2.25	0.08	27.01i	n/a	n/a	-0.009	1.00	n/a

Project File: Honey Lane_VTM_Nov 2021.stm

Number of lines: 31

Run Date: 11/3/2021

; c = cir e = ellip b = box

Hydraulic Grade Line Computations

Line	Size (in)	Q (cfs)	Downstream								Len (ft)	Upstream								Check		JL coeff (K)	Minor loss (ft)
			Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)		Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)		
9	18	1.49	25.92	26.86	0.94	1.16	1.28	0.03	26.88	0.039	79.619	26.16	26.89	0.73	0.85	1.76	0.05	26.94	0.090	0.065	0.051	0.15	0.01
8	18	2.91	25.59	26.51	0.92	1.14	2.56	0.10	26.61	n/a	109.436	25.92	26.69	0.77	0.92	3.16	0.16	26.85i	n/a	n/a	0.083	1.18	n/a
7	18	2.82	25.12	26.32	1.20	1.51	1.86	0.05	26.37	n/a	156.062	25.59	26.46	0.87	1.06	2.66	0.11	26.57i	n/a	n/a	0.087	1.00	n/a
6	18	2.69	25.02	26.25	1.23	1.55	1.73	0.05	26.30	0.065	34.735	25.12	26.27	1.15	1.45	1.85	0.05	26.32	0.075	0.070	0.024	0.90	0.05
5	18	2.65	24.50	26.12	1.50	1.77	1.50	0.04	26.15	0.064	172.037	25.02	26.22	1.20	1.51	1.76	0.05	26.26	0.067	0.066	0.113	0.76	0.04
4	18	2.48	24.42	26.07	1.50	1.77	1.40	0.03	26.10	0.056	28.194	24.50	26.09	1.50	1.77	1.40	0.03	26.12	0.056	0.056	0.016	0.97	0.03
3	18	3.05	24.30	25.99	1.50	1.77	1.73	0.05	26.04	0.085	39.170	24.42	26.02	1.50	1.77	1.73	0.05	26.07	0.084	0.085	0.033	1.00	0.05
2	18	3.74	24.02	25.73	1.50	1.77	2.12	0.07	25.80	0.127	104.315	24.28	25.86	1.50	1.77	2.12	0.07	25.93	0.127	0.127	0.133	1.87	0.13
1	18	5.04	22.85	24.80	1.50	1.77	2.85	0.13	24.93	0.230	283.998	23.68	25.45	1.50	1.77	2.85	0.13	25.58	0.230	0.230	0.654	2.16	0.27

Project File: Honey Lane_VTM_Nov 2021.stm

Number of lines: 31

Run Date: 11/3/2021

; c = cir e = ellip b = box

APPENDIX D



**WEIGHTED C-VALUE CALCULATIONS
HONEY LANE
OAKLEY, CALIFORNIA**

November 2, 2021
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	20	2,024	40,480
2	13	2,515	32,695
3	24	2,120	50,880
Total	57	-	124,055

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 1-10
Total Lot SF	266,959
Roofs & Driveways	124,055
Net Remainder Yard Space	142,904
80% Landscape	114,323
20% Hardscape	28,581

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	100,944	1.00	0.00	100,944	0
Driveway Aprons	4,194	1.00	0.00	4,194	0
Parkways	14,261	0.00	1.00	0	14,261
Open Space	17,001	0.00	1.00	0	17,001
Total:	136,400			105,138	31,262

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	124,055	133,719	145,585	403,359
Total:				403,359

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 1-10	257,774	0.04	145,585	0.004	10,893	11,204

III. Weighted C-Value Calculations

Description	Area	C-Value	Weighted
Impervious	257,774	0.9	231,996
Pervious	156,789	0.3	47,037
Total:	414,563	-	279,033
Weighted C-Value:			0.67

Appendix H
Preliminary Stormwater Control Plan

Preliminary Stormwater Control Plan

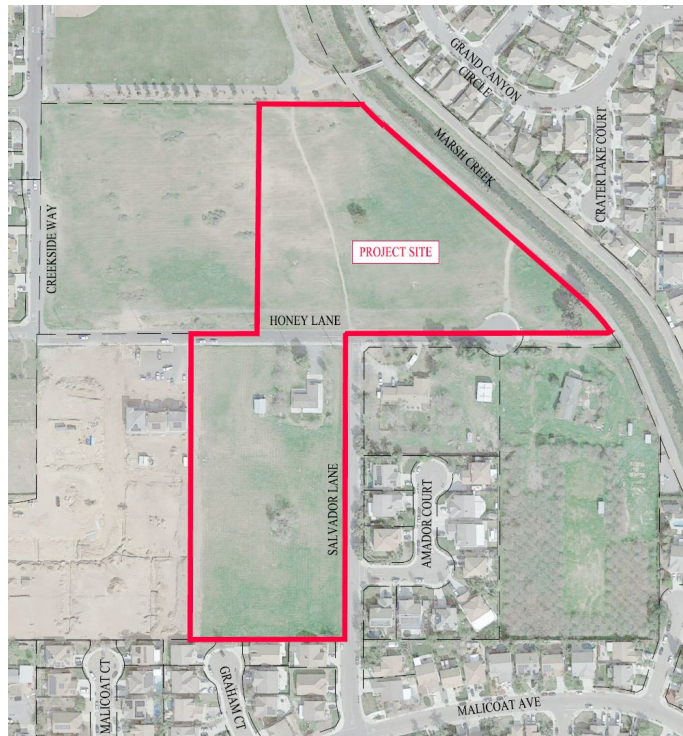
HONEY / CREEKSID

OAKLEY, CONTRA COSTA COUNTY, CALIFORNIA

SUBDIVISION 9579

APN 033-030-032-8 & 033-030-028-6

January 3, 2022



Prepared For:

Nuvera Homes
7041 Koll Center Parkway, #130
Pleasanton, CA 94566

City of Oakley
Planning Division

Prepared By:

JAN 10, 2022



**Carlson, Barbee
& Gibson, Inc.**

CIVIL ENGINEERS • SURVEYORS • PLANNERS

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EXHIBITS

Exhibit 1 – Vicinity Map

Exhibit 2 – Existing Site Aerial

Exhibit 3 – Stormwater Control Plan Exhibit

I. PROJECT SETTING

A. Project Name, Location and Description

This project is in Oakley, California (APN's 033-030-032-8 & 033-030-028-6) and is located on the north and south side of Honey Lane at Salvador Lane, as shown in Exhibit 1 – Vicinity Map. The project proposes the development of 57 residential units within the 10.57 acre site. The current project site is primarily vacant land with a residential structure on the southern parcel. Both sites sheet grade at a gentle slope towards Honey Lane or east towards Salvador Lane / Marsh Creek. Due to the construction of new impervious area, treatment requirements will be implemented.

B. Existing Site Conditions

There is currently minimal impervious area within the Project Site, consisting of existing Honey Lane roadway improvements along with residential improvements on the southern parcel. The site will have multiple points of access along Honey Lane and Salvador Lane – both roadways will be widened as part of the project scope.

The site is part of the moderate climate of the San Francisco Bay Area Region. Annual temperature patterns are typical of coastal areas. Precipitation is evenly distributed throughout the fall, winter and spring but is very low in the summer. Moisture occurring in the summer is generally from the coastal fog. Mean annual precipitation is approximately 11.2 inches at the site.

The natural drainage of the site conveys stormwater west towards Marsh Creek and Salvador Lane. The site lies within the Lower Marsh Creek watershed. The entire site is sheet graded, with elevations on the site range from 27'± to 33±.

C. *Compliance with Municipal Regional Permit (MRP) C.3 Guidelines*

1. The “50% Rule” For Projects on Previously Developed Sites

The project site is undeveloped. The proposed project will require the clearing and grubbing of 10.57 acres. By the “50% Rule”, the entire project must be included in the treatment measure design.

2. Treatment

The proposed project is subject to compliance with the treatment requirements set forth in the MRP. Based on the initial calculations, the project will introduce approximately 5.9 acres of impervious surfaces. Therefore, per Table 1-1 of the County’s C.3 Guidebook, this project is required to include treatment measures.

3. Flow Control

The proposed project is not subject to the flow control requirements set forth in the MRP. The downstream channels to Marsh Creek have been designed with erosion protection features and are considered engineered hardened channels and therefore exempt from flow control requirements per Appendix E of the Contra Costa County C.3 Guidebook. A letter from the Contra Costa County Flood Control and Water Conservation District confirming the downstream channels are engineered hardened channels and do not require flow control is provided in Appendix C.

Table 1 – Project Data

Project Name / Number	Honey / Creekside (Subdivision 9579)
Application Submittal Date	January 3, 2022
Project Location	Honey Lane & Salvador Lane
Name of Developer	Nuvera Homes
Project Phase No.	N/A
Project Type and Description	Residential Subdivision
Project Watershed	Lower Marsh Creek (DA 30B)
Total Project Site Area (Acres)	10.6 Acres
Total Area of Land Disturbed (Acres)	9.5 Acres
Total New Impervious Surface Area (SF)	256,906 SF
Total Impervious Surface Area to Remain	11,435 SF
Total Replaced Impervious Surface Area	3,745 SF
Total Pre-Project Impervious Surface Area	22,500 SF
Total Post-Project Impervious Surface Area	268,341 SF
50% Rule	Apply
Project Density	5.4 DU / AC
Applicable Special Project Categories	None
Percent LID and Non-LID Treatment	100% LID
HMP Compliance	Exempt – Drains to Hardened Channel

D. Constraints and Opportunities for Stormwater Control

The following are the site-specific underlying constraints and opportunities affecting the selection of treatment facilities for the project. Table 2 below illustrates the constraints and

opportunities for each IMP detailed in the C.3 manual. This table was used as a guideline for the selection of the IMP facilities that area proposed for the site.

Table 2 – Integrated Management Practices (IMPs) Matrix

Site Features/Issues	Optimize Site Layout	Pervious Pavement	Green Roof	Disperse Runoff to Landscape	Storage for Later Use	Bioretention Facility	Flow-Thru Planter	Dry Well	Cistern + Bioretention	Bioretention + Vault
Clayey Native Soils	X		X	X	X	X	X		X	X
Roof Drainage	X			X	X	X	X	X	X	
Extensive Landscaping	X			X	X	X				

1. Constraints

- a. Roof Drainage – The proposed architecture has not been finalized, however, it is assumed that roof drainage will be collected via roof leaders to a private area drain system and outfall into the proposed storm drain system.
- b. Rain Cycle – Opportunities for storage and reuse are hindered by the rain cycle of the Bay Area. The time periods between the rain season and the dry season are long enough to make storage of rain water for reuse infeasible.
- c. Soil Types – According to the USGS Web Soil Survey, this site is underlain by soils classified as Hydrologic Soil Group A. Group A soils have high infiltration rates and low runoff potential of storm water.
- d. Shallow Slopes – This site contains minimal natural slopes. Average slopes within the project area are less than 0.5% and do not provide sufficient hydraulic head for stormwater treatment.

2. Opportunities

- a. Integrated Landscaping – The project site will utilize disconnected impervious areas and landscape features including bioretention areas to treat and manage stormwater. Project grading and drainage will ensure areas of

landscaping are maximized to minimize runoff and impervious areas are directed to the treatment areas.

Bioretention areas have been chosen to meet the requirements of the MRP. Bioretention facilities can easily be incorporated into the site's landscape theme and provide flexibility in the look and feel of the finished product. Details for the bioretention area have been included in Appendix B for reference.

II. LOW IMPACT DEVELOPMENT DESIGN STRATEGIES

A. Optimization of Site Layout

1. Preservation of Natural Drainage Patterns

The existing natural drainage patterns on-site will be maintained with the proposed project. Drainage from the site is collected in a storm drain system within the proposed streets and conveyed to the existing systems in Honey Lane and Salvador Lane. The bioretention areas have been placed throughout the project to ensure the preservation of natural drainage patterns. The proposed bioretention areas will treat the increase in stormwater runoff before discharging into the existing system as depicted in Exhibit 3 – Stormwater Control Plan Exhibit.

2. Setbacks from Creeks, Wetlands, and Riparian Habitats

The project is adjacent to Marsh Creek and has provided a 75' setback to the existing top of bank, as shown in the "Map of Streams Illustrating Applicability of the East Contra Costa County HCP/NCCP Stream Setback Provision," available on Contra Costa County's website. The project does not propose any improvements that will directly discharge to Marsh Creek and will therefore not impact any creeks, wetlands or riparian habitats.

3. Minimization of Imperviousness

This project is located within an existing residential area. The proposed site plan will have a unit density of 5.4 DU/AC. This unit density was achieved by maximizing landscape areas and minimizing the potential impervious areas that could be constructed on site. Bioretention and landscape parcels total approximately 1.5 acres.

4. Using Drainage as a Design Element

There will be multiple IMP areas to treat the increased storm runoff. Site runoff from impervious areas will be directed to the designated IMP areas. The IMPs have been strategically placed on-site to both increase the aesthetics of the development as well as meet the increased stormwater demand.

B. Direct Runoff to Integrated Management Practices

The proposed site grading and drainage plan has been designed to capture runoff from impervious areas and direct it to an IMP area for treatment. It is anticipated that the roof drainage will be routed via roof leaders and directed to a private area drain system, which will outfall to the gutters via sidewalk drains. Runoff will then be conveyed to the roadway low point and enter IMP areas via reverse sidewalk drains. Post-treatment, the proposed storm drain system will route the clean water to the existing system. The project's proposed grading and storm drainage design will allow all drainage and treatment to be achieved via gravity flow.

III. DOCUMENTATION OF DRAINAGE DESIGN

The following outlines the stormwater management facilities within the project site necessary to comply with the applicable C.3 guidelines. The project site design and its stormwater features balance the constraints of the site, the land use planning objectives for the site, and the MRP C.3 requirements.

The stormwater management plan's compliance with treatment requirements is described below:

A. Treatment Facilities

The proposed project will utilize bioretention areas as part of the site's landscape amenities. The bioretention areas will be designed to satisfy the treatment requirements of the MRP. Exhibit 3 – Stormwater Control Plan Exhibit depicts the proposed locations of the bioretention areas. In order to minimize the amount of existing Honey Lane drainage entering the bioretention basins, certain portions of Honey Lane are proposed for in lieu treatment along Salvador Lane. These areas are depicted in Exhibit 3. Appendix B contains specific design information for the bioretention areas as provided in the Contra Costa County C.3 manual. Calculations for the IMP areas were performed using the Contra Costa Clean Water Program Integrated Management Practices Calculator Version 1.3.1.0, the results have been provided in Appendix A for review.

IV. SOURCE CONTROL MEASURES

The proposed project will create few potential sources of stormwater pollution. Sources to be controlled include but are not limited to:

SOURCES AND SOURCE CONTROL BMP'S

Potential Source of Runoff Pollutants	Permanent Source Control BMP's	Operational Source Control BMP's
Onsite storm drain inlets	<p>Mark all accessible onsite inlets with the words "No Dumping! Flows to Creek" or approved equivalent language.</p> <p>Detail location of all onsite storm drain inlets on Stormwater Control Plan Drawings.</p>	<p>Maintain and periodically replace inlet markings as needed.</p> <p>Provide stormwater pollution prevention information to new site owners, lessees, or operators.</p> <p>Include the following in lease agreement "Tenant shall not discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains."</p> <p>Inlets and pipes conveying stormwater to BMPs shall be inspected and maintained as part of the Project Operation and Maintenance Plan.</p>
Need for future indoor or structural pest control	Project construction drawings shall incorporate features that discourage entry of pests.	Provide Integrated Pest Management (IPM) information to owners, lessees, and operators.

Potential Source of Runoff Pollutants	Permanent Source Control BMP's	Operational Source Control BMP's
Landscape/outdoor pesticide use	<p>Final project landscape plans shall reflect the following:</p> <p>Design that minimizes need for irrigation; minimizes runoff; promotes surface infiltration where appropriate; and details the use of planting material that minimizes the amount of fertilizers and pesticides that are needed.</p> <p>Where landscaped areas are used to retain and detain stormwater, project landscape plans shall specify the use of plants that are tolerant of saturated soil conditions.</p> <p>Project landscape plans shall detail use of plantings appropriate to site soils, slopes, climate, sun, land use, air movement, ecological consistency, and plant interactions.</p> <p>Detail locations of stormwater treatment BMPs on Stormwater Control Plan Drawings.</p>	<p>Maintain landscaping using minimum or no pesticides.</p> <p>Provide Integrated Pest Management information to new owners, lessees and operators.</p> <p>See applicable BMPs in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks www.babmphandbooks.com</p>
Roofing, gutters, and trim	Do not utilize roofing, gutter, or architectural trim materials made of copper or other unprotected metals that would leach into the storm water runoff.	

Potential Source of Runoff Pollutants	Permanent Source Control BMP's	Operational Source Control BMP's
Private Drive and Sidewalks		Owners, lessees, and operators will be encouraged to sweep sidewalks regularly to prevent the accumulation of litter and debris. Debris from pressure washing shall be collected to prevent entry into the storm drain system. Washwater containing any cleaning agent or degreaser shall be collected and discharged to the sanitary sewer and not discharged to a storm drain.
Fire Sprinkler Test Water	Provide means to drain fire sprinkler test water to sanitary sewer system.	See note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com
Air Conditioning	Air conditioner condensation shall be directed to landscaped areas or plumbed to the sanitary sewer.	

V. FACILITIES MAINTENANCE REQUIREMENTS

A. *Ownership and Responsibility for Maintenance in Perpetuity*

As part of the C.3 stormwater requirements, municipalities must verify stormwater treatment facilities function and are maintained as intended by their design. Facilities on site will be maintained and are the responsibility in their entirety by the project HOA with funding by the project HOA.

Nuvera Homes known hereon as the property owner, shall provide a Storm Water Control Operation and Maintenance (O&M) Plan for review of the City of Oakley.

B. *Summary of Maintenance Requirements*

Bioretention facilities require routine maintenance to prevent a loss in the rate of infiltration, insure unobstructed flow, prevent erosion, and keep plants healthy and the engineered soil biologically active. Typical maintenance requirements of bioretention facilities will include:

- Inspection of inlets for channels, exposure of soils, and other evidence of erosion.
- Replenishment of all erosion control measures necessary.
- Inspect outlets to ensure that planter has not clogged or that excessive erosion has not inhibited flow.
- Inspection of facility side slopes for evidence of erosion.
- Observe percolation in treatment areas to verify design percolation rates are met (i.e., whether a 48 hour percolation window is exceeded).
- Till or replace engineered soil in treatment areas where design percolation rates are not met.
- Examine all vegetation to insure it is healthy and dense enough to provide filtering. Replenish mulch as necessary, remove fallen leaves and debris and prune large shrubs and trees. Replace dead plants and remove noxious and invasive vegetation.
- Confirm irrigation is adequate but not excessive.
- Remove any invasive plants that might be present.

- Abate any potential vectors by insuring there are no areas where water stands longer than 48 hours following a storm. If mosquito larvae are present and persistent, contact the Contra Costa Mosquito and Vector Control District for information and advice. Mosquito larvicides shall be applied only when absolutely necessary and then, only by a licensed individual or contractor.

VI. CONSTRUCTION PLAN C.3 CHECKLIST

Stormwater Control Plan Page No.	BMP Description	Construction Documents Sheet #
Exhibit 3	IMP's 1 – 10 <i>Shallow basin Bioretention facilities</i>	

VII. CERTIFICATION

The selection, sizing, and preliminary design of stormwater treatment and other control measures in this plan meet the requirements of Regional Water Quality Control Board Order R2-2009-0074 and subsequent amendments.

Angelo Obertello, P.E.
RCE# 64345

Date

Appendix A

Sizing Calculations

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 1
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	3.5	2,024	7,084
2	1	2,515	2,515
3	3	2,120	6,360
Total	7.5	-	15,959

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 1
Total Lot SF	32,020
Roofs & Driveways	15,959
Net Remainder Yard Space	16,061
80% Landscape	12,849
20% Hardscape	3,212

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	17,265	1.00	0.00	17,265	0
Driveway Aprons	618	1.00	0.00	618	0
Parkways	3,768	0.00	1.00	0	3,768
Open Space	1,482	0.00	1.00	0	1,482
Total:	23,133			17,883	5,250

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	15,959	21,095	18,099	55,153
			Total:	55,153

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 1	37,054	0.04	18,099	0.004	1,555	1,604

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 2
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	2	2,024	4,048
2	2	2,515	5,030
3	4	2,120	8,480
Total	8	-	17,558

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 2
Total Lot SF	39,818
Roofs & Driveways	17,558
Net Remainder Yard Space	22,260
80% Landscape	17,808
20% Hardscape	4,452

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	15,733	1.00	0.00	15,733	0
Driveway Aprons	640	1.00	0.00	640	0
Parkways	1,877	0.00	1.00	0	1,877
Open Space	1,450	0.00	1.00	0	1,450
Total:	19,700			16,373	3,327

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	17,558	20,825	21,135	59,518
			Total:	59,518

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 2	38,383	0.04	21,135	0.004	1,620	1,672

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 3
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	1.5	2,024	3,036
2	1	2,515	2,515
3	2	2,120	4,240
Total	4.5	-	9,791

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 3
Total Lot SF	20,758
Roofs & Driveways	9,791
Net Remainder Yard Space	10,967
80% Landscape	8,774
20% Hardscape	2,193

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	8,911	1.00	0.00	8,911	0
Driveway Aprons	483	1.00	0.00	483	0
Parkways	1,250	0.00	1.00	0	1,250
Open Space	888	0.00	1.00	0	888
Total:	11,532			9,394	2,138

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	9,791	11,587	10,912	32,290
			Total:	32,290

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 3	21,378	0.04	10,912	0.004	899	917

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 4
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	2	2,024	4,048
2	1	2,515	2,515
3	1	2,120	2,120
Total	4	-	8,683

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 4
Total Lot SF	15,470
Roofs & Driveways	8,683
Net Remainder Yard Space	6,787
80% Landscape	5,430
20% Hardscape	1,357

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	8,865	1.00	0.00	8,865	0
Driveway Aprons	320	1.00	0.00	320	0
Parkways	1,180	0.00	1.00	0	1,180
Open Space	1,100	0.00	1.00	0	1,100
Total:	11,465			9,185	2,280

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	8,683	10,542	7,710	26,935
			Total:	26,935

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 4	19,225	0.04	7,710	0.004	800	839

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 5
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	1	2,024	2,024
2	1	2,515	2,515
3	1	2,120	2,120
Total	3	-	6,659

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 5
Total Lot SF	17,656
Roofs & Driveways	6,659
Net Remainder Yard Space	10,997
80% Landscape	8,798
20% Hardscape	2,199

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	2,477	1.00	0.00	2,477	0
Driveway Aprons	242	1.00	0.00	242	0
Parkways	459	0.00	1.00	0	459
Open Space	980	0.00	1.00	0	980
Total:	4,158			2,719	1,439

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	6,659	4,918	10,237	21,814
			Total:	21,814

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 5	11,577	0.04	10,237	0.004	504	520

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 6
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	2	2,024	4,048
2	2	2,515	5,030
3	2	2,120	4,240
Total	6	-	13,318

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 6
Total Lot SF	24,039
Roofs & Driveways	13,318
Net Remainder Yard Space	10,721
80% Landscape	8,577
20% Hardscape	2,144

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	1,180	1.00	0.00	1,180	0
Driveway Aprons	0	1.00	0.00	0	0
Parkways	268	0.00	1.00	0	268
Open Space	1,228	0.00	1.00	0	1,228
Total:	2,676			1,180	1,496

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	13,318	3,324	10,073	26,715
			Total:	26,715

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 6	16,642	0.04	10,073	0.004	706	747

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 7
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	2.5	2,024	5,060
2	1	2,515	2,515
3	3	2,120	6,360
Total	6.5	-	13,935

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 7
Total Lot SF	32,616
Roofs & Driveways	13,935
Net Remainder Yard Space	18,681
80% Landscape	14,945
20% Hardscape	3,736

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	9,637	1.00	0.00	9,637	0
Driveway Aprons	482	1.00	0.00	482	0
Parkways	1,331	0.00	1.00	0	1,331
Open Space	1,434	0.00	1.00	0	1,434
Total:	12,884			10,119	2,765

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	13,935	13,855	17,710	45,500
			Total:	45,500

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 7	27,790	0.04	17,710	0.004	1,182	1,196

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 8
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	0	2,024	0
2	0.5	2,515	1,258
3	0.5	2,120	1,060
Total	1	-	2,318

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 8
Total Lot SF	4,574
Roofs & Driveways	2,318
Net Remainder Yard Space	2,257
80% Landscape	1,805
20% Hardscape	451

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	6,591	1.00	0.00	6,591	0
Driveway Aprons	0	1.00	0.00	0	0
Parkways	946	0.00	1.00	0	946
Open Space	2,824	0.00	1.00	0	2,824
Total:	10,361			6,591	3,770

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	2,318	7,042	5,575	14,935
			Total:	14,935

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 8	9,360	0.04	5,575	0.004	397	405

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 9
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	2	2,024	4,048
2	1.5	2,515	3,773
3	3.5	2,120	7,420
Total	7	-	15,241

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 9
Total Lot SF	27,285
Roofs & Driveways	15,241
Net Remainder Yard Space	12,045
80% Landscape	9,636
20% Hardscape	2,409

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W (Including Swap Area)	15,037	1.00	0.00	15,037	0
Driveway Aprons	608	1.00	0.00	608	0
Parkways	2,008	0.00	1.00	0	2,008
Open Space	2,372	0.00	1.00	0	2,372
Total:	20,025			15,645	4,380

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	15,241	18,054	14,016	47,310
			Total:	47,310

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 9	33,294	0.04	14,016	0.004	1,388	1,435

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 10
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	3.5	2,024	7,084
2	2	2,515	5,030
3	4	2,120	8,480
Total	9.5	-	20,594

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 10
Total Lot SF	51,379
Roofs & Driveways	20,594
Net Remainder Yard Space	30,785
80% Landscape	24,628
20% Hardscape	6,157

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W (Including Swap Area)	14,649	1.00	0.00	14,649	0
Driveway Aprons	801	1.00	0.00	801	0
Parkways	1,797	0.00	1.00	0	1,797
Open Space	2,367	0.00	1.00	0	2,367
Total:	19,614			15,450	4,164

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	20,594	21,607	28,792	70,993
			Total:	70,993

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 10	42,201	0.04	28,792	0.004	1,803	1,813

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE - DMA 11
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	0	2,024	0
2	0	2,515	0
3	0	2,120	0
Total	0	-	0

B) Calculate impervious area (hardscape - yard space) on lot.

	DMA 11
Total Lot SF	0
Roofs & Driveways	0
Net Remainder Yard Space	0
80% Landscape	0
20% Hardscape	0

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	0	1.00	0.00	0	0
Driveway Aprons	0	1.00	0.00	0	0
Parkways	0	0.00	1.00	0	0
Open Space	37,335	0.00	1.00	0	37,335
Total:	37,335			0	37,335

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	0	0	37,335	37,335
Total:				37,335

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
DMA 11	0	-	37,335	-	0	0

(100% Pervious Self-Treating)

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	0	2,024	0
2	0	2,515	0
3	0	2,120	0
Total	0	-	0

B) Calculate impervious area (hardscape - yard space) on lot.

	Area Swaps
Total Lot SF	0
Roofs & Driveways	0
Net Remainder Yard Space	0
80% Landscape	0
20% Hardscape	0

These calculations represent the treatment areas of Honey Lane to be swapped to Salvador Lane and incorporated into DMA's 9 & 10

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	2,779	1.00	0.00	2,779	0
Driveway Aprons	480	1.00	0.00	480	0
Parkways	970	0.00	1.00	0	970
Open Space	0	0.00	1.00	0	0
Total:	4,229			3,259	970

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	0	3,259	970	4,229
Total:				4,229

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
Area Swaps	3,259	0.04	970	0.004	134	135

(to be included in DMA's 9 & 10)

**PRELIMINARY WATER QUALITY CALCULATIONS
HONEY / CREEKSIDE
OAKLEY, CALIFORNIA**

January 3, 2022
Job No.: 3365-000

I. Preliminary Amount of Impervious Area

A) Calculate impervious area (roof and driveway) on lots.

Plan	Lot Count	Average Area of Roof & Driveways	Impervious Amount
1	0	2,024	0
2	0	2,515	0
3	0	2,120	0
Total	0	-	0

B) Calculate impervious area (hardscape - yard space) on lot.

	Area Swaps
Total Lot SF	0
Roofs & Driveways	0
Net Remainder Yard Space	0
80% Landscape	0
20% Hardscape	0

These calculations represent the treatment areas on Salvador Lane swapped from Honey Lane and incorporated into DMA's 9 & 10

C) Calculate impervious area in public spaces.

Description	SF	Percent Allocation		Impervious/Pervious Areas	
		AC/PCC	Landscape	AC/PCC	Landscape
R/W	3,375	1.00	0.00	3,375	0
Driveway Aprons	0	1.00	0.00	0	0
Parkways	0	0.00	1.00	0	0
Open Space	0	0.00	1.00	0	0
Total:	3,375			3,375	0

D) Summarize total impervious & pervious areas.

	Roof & DW's	AC/PCC	Landscape	Total
Total	0	3,375	0	3,375
Total:				3,375

II. Required Water Quality Treatment Area

	Total Impervious Area	Total Impervious Area Sizing Factor	Total Pervious Area	Total Pervious Area Sizing Factor	Required (SF)	Provided (SF)
Area Swaps	3,375	0.04	0	0.004	135	135

(Included in DMA's 9 & 10)

Project Name: Honey / Creekside
Project Type: Treatment Only
Location: Oakley, CA
APN: 033-030-032-8 & 033-030-028-6
Drainage Area: 449646 sf
Mean Annual Precipitation: 11.2 in

I. Self-Treating Areas

DMA Name	Area (sq ft)
DMA 11	37335

IV. Areas Draining to IMPs

IMP Name: IMP1 (Soil Type: A)

IMP Type: Bioretention Facility
 Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 1A	37,054	Concrete or Asphalt	1.00	37,054				
DMA 1B	18,099	Landscape	0.10	1,810				
Total				38,864				
Area				0.040	1.000	1,555	1,604	

IMP Name: IMP2 (Soil Type: A)

IMP Type: Bioretention Facility
 Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 2A	38,383	Concrete or Asphalt	1.00	38,383				
DMA 2B	21,135	Landscape	0.10	2,114				
Total				40,497				
Area				0.040	1.000	1,620	1,672	

IMP Name: IMP3 (Soil Type: A)

IMP Type: Bioretention Facility
 Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 3A	21,378	Concrete or Asphalt	1.00	21,378				
DMA 3B	10,912	Landscape	0.10	1,091				
Total				22,469				
Area				0.040	1.000	899	917	

IMP Name: IMP4 (Soil Type: A)

IMP Type: Bioretention Facility
 Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 4A	19,225	Concrete or Asphalt	1.00	19,225				
DMA 4B	7,710	Landscape	0.10	771				
Total				19,996				

Area	0.040	1.000	800	839
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IMP Name: IMP5 (Soil Type: A)

IMP Type: Bioretention Facility
Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 5A	11,577	Concrete or Asphalt	1.00	11,577				
DMA 5B	10,237	Landscape	0.10	1,024				
Total				12,601				
Area					0.040	1.000	504	520

IMP Name: IMP6 (Soil Type: A)

IMP Type: Bioretention Facility
Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 6A	16,642	Concrete or Asphalt	1.00	16,642				
DMA 6B	10,073	Landscape	0.10	1,007				
Total				17,649				
Area					0.040	1.000	706	747

IMP Name: IMP7 (Soil Type: A)

IMP Type: Bioretention Facility
Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 7A	27,790	Concrete or Asphalt	1.00	27,790				
DMA 7B	17,710	Landscape	0.10	1,771				
Total				29,561				
Area					0.040	1.000	1,182	1,196

IMP Name: IMP8 (Soil Type: A)

IMP Type: Bioretention Facility
Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 8A	9,360	Concrete or Asphalt	1.00	9,360				
DMA 8B	5,575	Landscape	0.10	558				
Total				9,918				
Area					0.040	1.000	397	405

IMP Name: IMP9 (Soil Type: A)

IMP Type: Bioretention Facility
Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 9A	33,294	Concrete or Asphalt	1.00	33,294				
DMA 9B	14,016	Landscape	0.10	1,402				
Total				34,696				
Area					0.040	1.000	1,388	1,435

IMP Name: IMP10 (Soil Type: A)

IMP Type: Bioretention Facility

Soil Type: A

DMA Name	DMA Area (sq ft)	Post-Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing			
					IMP Sizing Factor	Rain Adjust-ment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA 10A	42,201	Concrete or Asphalt	1.00	42,201				
DMA 10B	28,792	Landscape	0.10	2,879				
Total				45,080				
				Area	0.040	1.000	1,803	1,813

Software Tool Warnings

No warnings to report.

Report generated on 1/3/2022 12:00:00 AM by the [Contra Costa Clean Water Program](#) IMP Sizing Tool software (version 1.3.1.0).

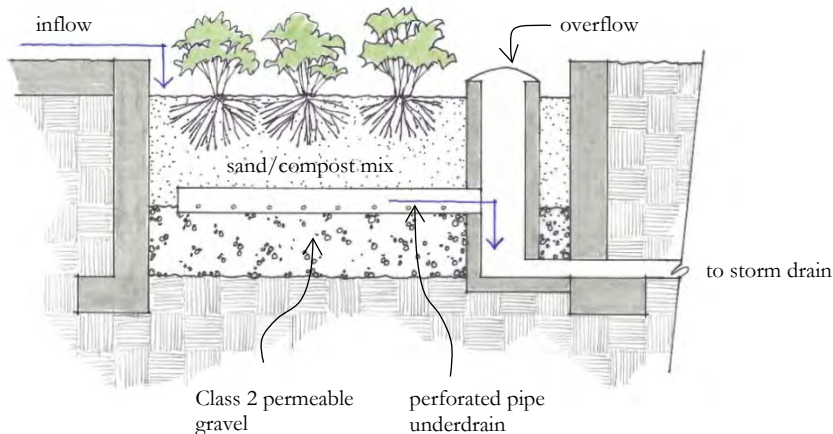
Appendix B
Bioretention Facilities Details

Bioretention Facilities



Bioretention facilities can be rectangular, linear, or nearly any shape.
Photo by Scott Wikstrom

Bioretention facilities capture runoff in a shallow reservoir on the soil surface, then filter the runoff through plant roots and a biologically active soil mix. The treated runoff then trickles into a subsurface gravel layer. Runoff is held in the gravel layer until it infiltrates it into the ground. If the entire gravel layer becomes saturated, an underdrain conveys excess treated runoff to a storm drain or to surface drainage.



Best Uses

- Commercial areas
- Residential subdivisions
- Industrial facilities
- Roadways
- Parking lots
- Fit in setbacks, medians, and other landscaped areas

Advantages

- Can be any shape
- Low maintenance

Limitations

- Require 4%-15% of tributary impervious square footage
- Typically require 3-4 feet of head
- Irrigation may be required



CONTRA COSTA
CLEAN WATER
PROGRAM

*Stormwater C.3
Guidebook*

www.cccleanwater.org

LAYOUT AND SITE DRAINAGE

See the guidance on page 28 regarding how to incorporate bioretention facilities into your site. Also see “Integrating Your LID Design into Your Project” on page 42.

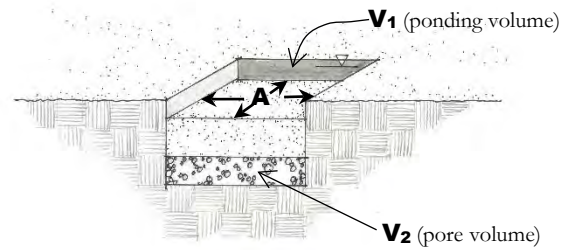
- Place bioretention facilities in visible, well-trafficked areas and make them a focal point in the landscape.
- On flatter sites, use surface drainage, rather than underground pipes, to convey runoff to the bioretention facility inlets. The top of soil elevation should be as high as possible—typically 6 to 12 inches below surrounding grade.
- Where possible, design site drainage so only impervious roofs and pavement drain to the bioretention facility. Avoid high walls or steep slopes adjacent to bioretention facilities. Avoid side slopes within bioretention areas as much as possible. The bioretention soil mix will tend to rill even on very mild slopes (>8:1).
- Integrate bioretention facilities with the landscape design.
- Make the bioretention facilities level around their perimeter.
- Where possible, grade tributary paved areas to sheet flow runoff and disperse it among curb cuts, rather than concentrating flow at one inlet location.
- Place each facility in a common, accessible area. Avoid locating facilities on private residential lots.

► DIMENSIONS AND MATERIALS

For development projects subject only to **runoff treatment requirements**, the following minimum dimensions apply.

Parameter	Criterion
Surface reservoir mean depth	6" minimum
Soil mix surface area	0.04 times tributary impervious area (or equivalent)
Soil mix depth	18" minimum
Gravel layer	12" min. Class 2 permeable
Underdrain discharge	At top of gravel layer

Where **flow-control requirements** also apply, the bioretention facility must be designed to meet the minimum surface area (A), surface volume (V_1), and subsurface volume (V_2) using Equation 3-3 and the sizing factors and equations in Tables 3-6 and 3-7. The IMP Sizing Calculator should be used.



Minimum subsurface volume. For treatment-and-flow-control facilities the minimum subsurface volume V_2 specified in Table 3-6 is the void space, not the entire volume of gravel. Where the native soils are Hydrologic Soil Group C or D, V_2 may be achieved by a 30" deep layer of gravel **of 40% porosity**, extending under the minimum footprint "A". Note that if the facility area is increased, the required depth to achieve the same volume is correspondingly decreased.

Gravel. "Class 2 permeable," Caltrans specification 68-2.02(F)(3), is preferred. Open-graded crushed rock, washed, may be used, but requires 4"-6" washed pea gravel be substituted at the top of the crushed rock layer. **Do not use filter fabric** to separate the soil mix from the gravel drainage layer or the gravel drainage layer from the native soil.

If desired, voids created by buried structures such as pipes or arches, may be substituted, as long as the voids are hydraulically interconnected and the minimum subsurface volume calculated by Equation 3-3 is achieved.

Soil mix. Criteria for the required mix of sand and compost are in Appendix B. It is similar to a loamy sand and must maintain a minimum percolation rate of 5" per hour throughout the life of the facility. It must be suitable for maintaining plant life with a minimum of fertilizer use. A list of suppliers is on the C.3 web pages.

► FACILITY DETAILS

Inlets. Curb cuts should be wide (12" is recommended) to avoid clogging with leaves or debris. Allow for a minimum reveal of 6" between the inlet and soil mix elevations to ensure turf or mulch buildup does not block the inlet. In addition, place an apron of stone or concrete, a foot square or larger, inside each inlet to prevent vegetation from growing up and blocking the inlet.

If the linear slope along the curb is greater than the orthogonal slope of the gutter pan, runoff flows will not enter the inlet efficiently. Use a drop inlet with a grate instead.

Where runoff is concentrated and conveyed to the facility in pipes or swales, protect the landscaping from high-velocity

flows with energy-dissipating cobble of appropriate size. In larger installations, provide cobble-lined channels to better distribute flows throughout the facility.

“Bubble ups” can be used to dissipate energy when runoff is piped from roofs and up-gradient paved areas.

Surface storage and overflow. For treatment-only facilities, the surface reservoir should be a minimum 6" deep. In treatment-and-flow-control facilities, the overflow elevation must be set to achieve the minimum surface storage volume calculated using Equation 3-3 and the V_1 sizing factor.

Ensure the soil mix is installed level and at the specified elevation, and that the elevation does not change when plants are installed.

Overflow structure. A precast concrete catch basin or manhole is best. The overflow elevation is critical and must be designed to achieve the surface reservoir requirements. The outlet should be designed to exclude floating mulch and debris. Design in **freeboard** if needed to prevent flooding or protect adjacent structures.

Underdrains. Underdrains must have their discharge elevation set at the top of gravel layer elevation. Perforated pipe can be laid in a shallow groove dug across the top of the gravel layer, holes facing down, and connected to the overflow structure. Underdrains must be constructed of rigid pipe (SDR 35 or equivalent) and provided with a cleanout.

Flow-control orifice. For treatment-and-flow-control facilities, the underdrain must be routed through a device designed to limit flows to that specified in Equation 3-10 or 3-11 (page 40). Typically, a section of solid pipe is designed to protrude slightly into the overflow structure. The pipe is threaded and fitted with a standard cap; a hole of the specified diameter is drilled into the cap. The cap can then be easily removed for cleaning or adjustment and reinstalled.

► **APPLICATIONS**

Multi-purpose landscaped areas. Bioretention facilities are easily adapted to serve multiple purposes. The loamy sand soil mix will support either turf or a plant palette suitable to the location and a well-drained soil. See Appendix B for additional guidance on soil, plant selection, and irrigation.

Residential subdivisions. In the design of many subdivisions, it has proven easiest and most effective to drain roofs and driveways to the streets (in the conventional manner) and then drain the streets to bioretention areas, with one bioretention area for each 1 to 10 lots, depending on subdivision layout and topography.



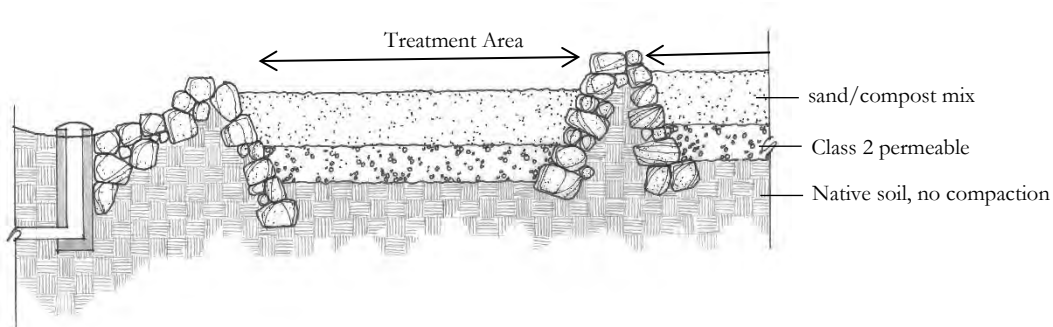
Bioretention facility in El Cerrito with active and passive recreational uses.

Bioretention areas can be placed on one or more separate, dedicated parcels with joint ownership.

Sloped sites. Bioretention facilities must be constructed as a basin or as a series of basins, with the circumference of each basin level.

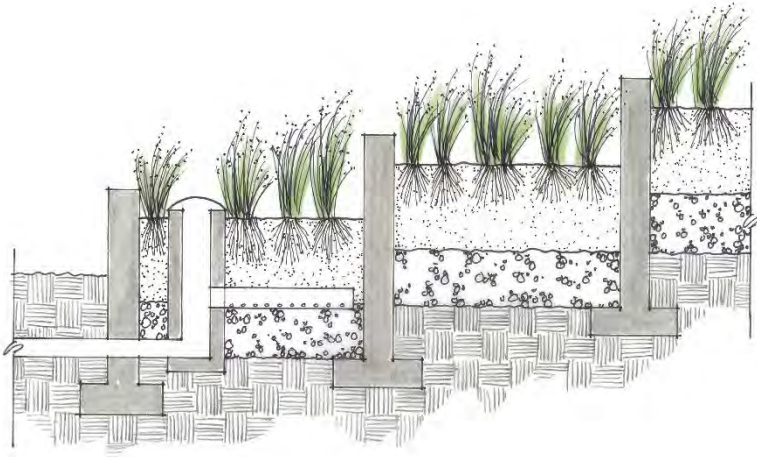
On the surface, a bioretention facility should be one level, shallow basin—or a series of basins. As runoff enters each basin, it should flood and fill throughout before runoff overflows to the outlet or to the next downstream basin. This helps prevent movement of surface mulch and soil mix.

Swales can be used on mild slopes. Check dams should be placed every 4 to 6 inches of elevation change and so that the lip of each dam is at least as high as the toe of the next upstream dam.



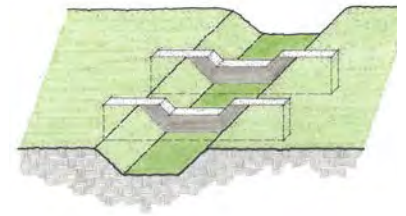
Swale with check dams. Not suitable for steeper slopes. Movement of soil can be a problem even at mild slopes. Design must ensure ponding behind each check dam.

A series of planters is a more robust solution and is required for steeper slopes.



Concrete check dams are a better solution on steeper slopes.

Solutions for surface storage. Placing a steep-sided depression in an urban landscape poses aesthetic challenges as well as practical challenges. First, use sheet flow, valley gutters, and trench drains, instead of pipes, to move runoff to the bioretention facility, so that inlets can be at or near ground level.



Key check dams into bottom and side slopes.

To further avoid the effects of high and steep drop offs, consider:

- Increasing the facility area and reducing the surface depth accordingly.
- Incorporating steps down into the facility.
- Specifying taller, woody plants to block or discourage entry.

Mulch can be mounded a few inches deeper at walkway edges to transition to the top of soil elevation.

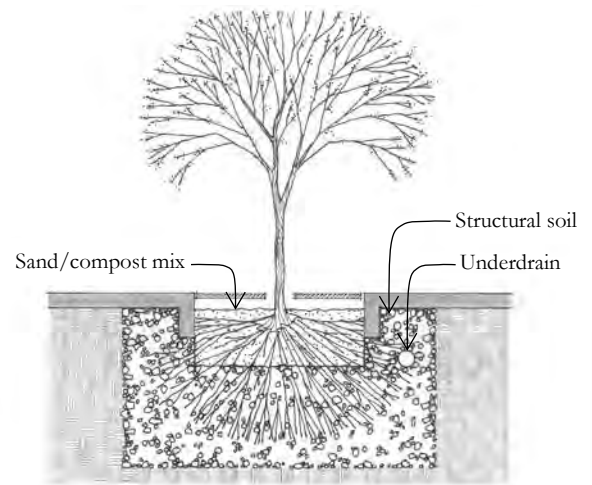
Vaults, utility boxes, backflow preventers, and light standards. Utility features and structures must be located outside the bioretention facility—in adjacent walkways or in a separate area set aside for this purpose.

Emergency overflow. The site grading plan should anticipate extreme events and potential clogging of the overflow, and should route emergency overflows safely.

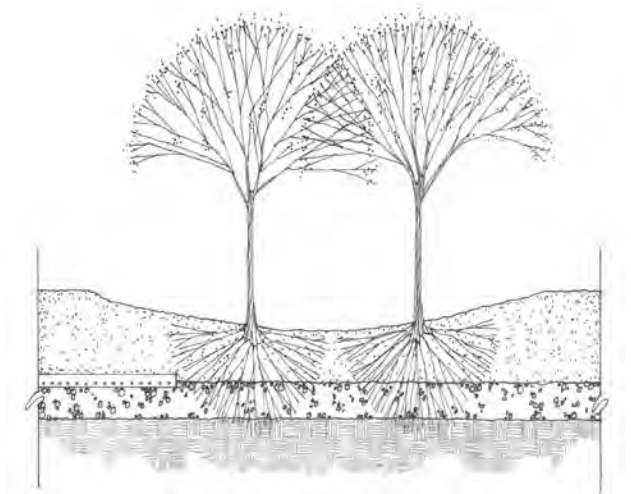
Trees. Bioretention areas can accommodate small or large trees within the minimum areas and volumes calculated by Equation 3-3. Tree canopies intercept rain, and tree roots maintain soil permeability and help retain runoff. Normal maintenance of a bioretention facility should not affect tree lifespan.

Consider the following when designing bioretention facilities to accommodate trees, especially large trees:

- The bioretention facility requires 18" of soil mix over the minimum surface area. Trees can be planted in this soil mix; the area occupied by the tree counts toward the minimum area requirement.
- Trees require sufficient rooting volume to thrive. [Structural soils](#) can be used below or around the soil mix.
- Most tree roots extend horizontally near the soil surface.
- The bioretention soil mix has low moisture-holding capacity. Consider planning for tree roots to access native clay soils through the side walls as the tree grows. However, where needed, adjacent paving or structures can be protected with a root barrier.
- A podium of native soil is sometimes constructed so that the root ball can be installed at the correct elevation (so that bioretention soil mix and mulch do not cover the tree's root collar).
- Large trees should be spaced appropriately for their size at maturity.
- Trees may need to be staked for longer because the bioretention soil mix provides little structural support against trees being toppled by wind.



Bioretention facility configured as a tree well.



Larger bioretention facility with trees.

Criteria for Bioretention

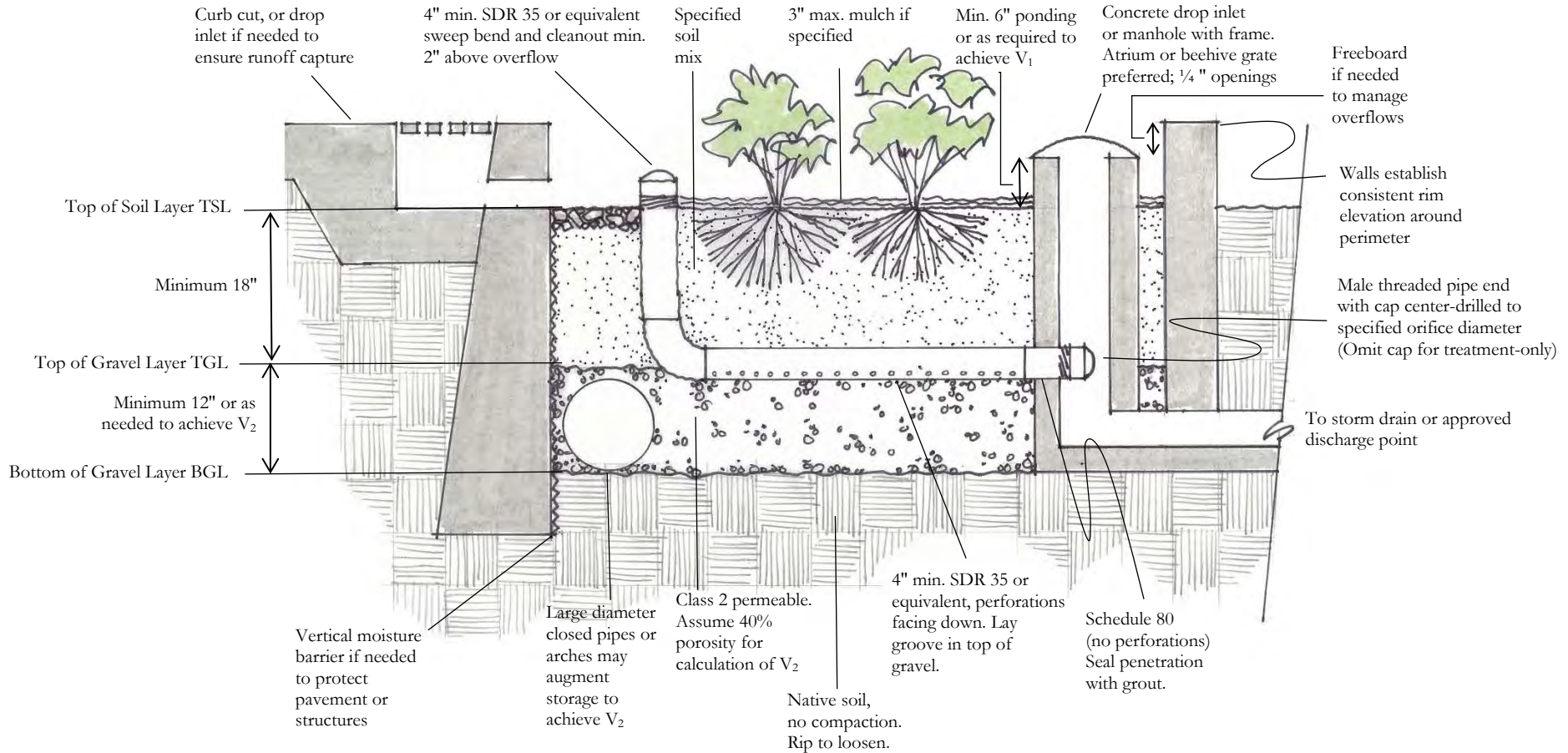
- Bioretention facilities are located in a visible, well-trafficked area where possible.
- Top of soil elevation is as high as possible. High walls and steep slopes adjacent to the facility are avoided.
- Location and footprint of facility are congruent on site plan, landscaping plan, and grading plan.
- Bioretention area is designed as a basin (level edges) or a series of basins, and grading plan is consistent with these elevations. Check dams, if any, are set so the lip or weir of each dam is at least as high as the toe of the next upstream dam.
- Volume or depth of surface reservoir meets or exceeds minimum. Freeboard above overflow (1"-2" recommended) is not included in surface reservoir volume.
- 18" depth specified soil mix (reference *Guidebook* Appendix B).
- Area of soil mix meets or exceeds minimum.
- Perforated pipe (PVC SDR 35 or approved equivalent) underdrain with discharge elevation **at the top** of the "Class 2 perm" layer. Holes facing downward. Connection and sufficient head to storm drain or approved discharge point.
- No filter fabric.
- Underdrain has a clean-out port consisting of a vertical, rigid, non-perforated PVC pipe, with a minimum diameter of 4 inches and a watertight cap.
- Curb inlets are 12" wide, have 4"-6" reveal and an apron or other provision to prevent blockage when vegetation grows in, and energy dissipation as needed.
- Overflow catch basin or manhole connected to a downstream storm drain or approved discharge point.
- Emergency spillage will be safely conveyed overland.
- Plantings are suitable to the climate, exposure, and a well-drained soil, and occasional inundation during large storm events.
- Irrigation system with connection to water supply, on a separate zone. See Appendix B.
- Vaults, utility boxes, backflow preventers, and light standards are located outside the minimum soil mix surface area.

For treatment-and-flow-control facilities only

- Volume of surface storage meets or exceeds minimum (V_1).
- Volume of subsurface storage meets or exceeds minimum (V_2).
- In "C" and "D" native soils, underdrain is connected to discharge through an appropriately sized orifice or other flow-limiting device.

Bioretention Facility

Cross-section
Not to Scale

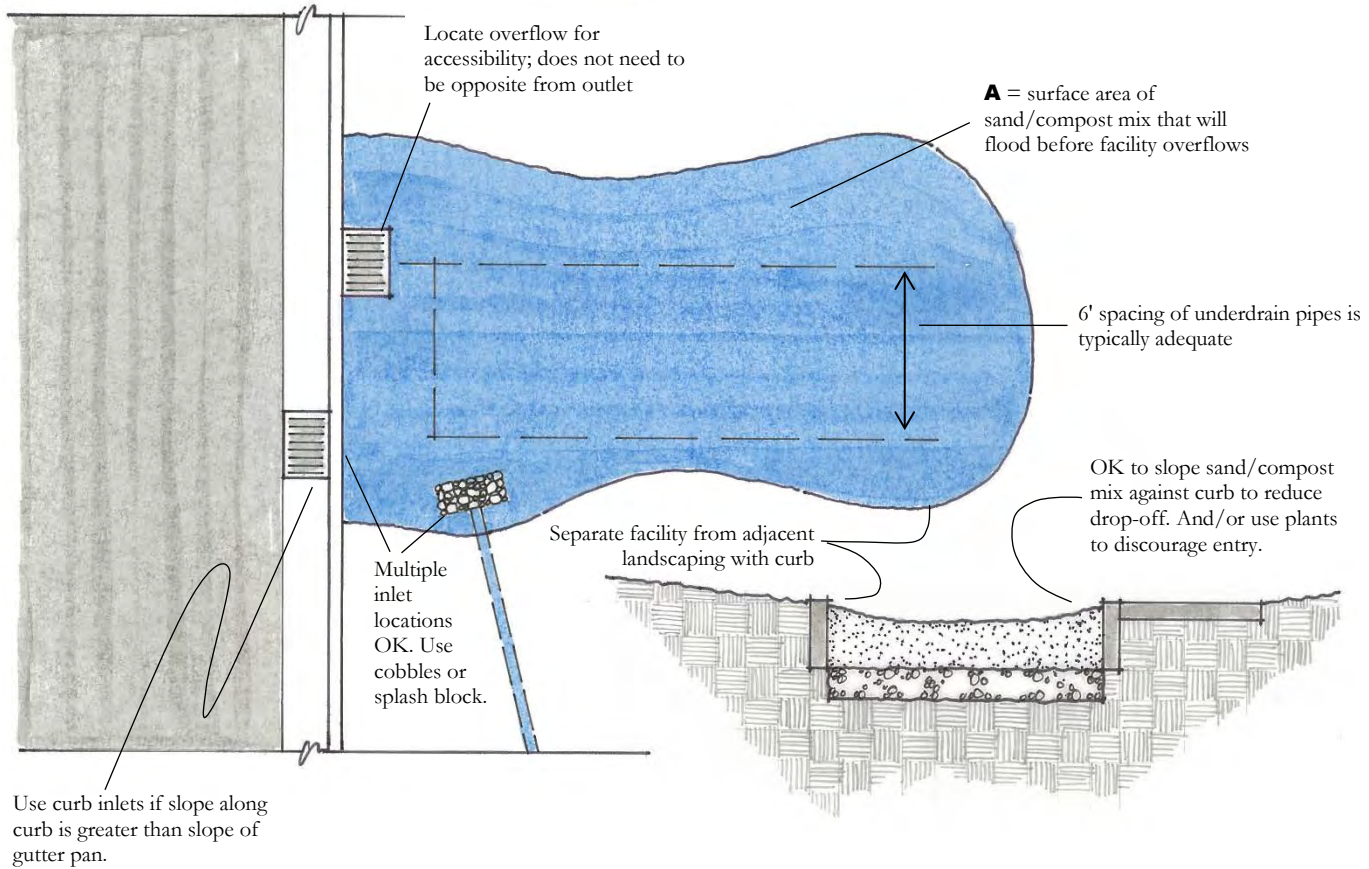


Notes:

- No liner, no filter fabric, no landscape cloth.
- Maintain BGL, TGL, TSL throughout facility area at elevations to be specified on drawing.
- Class 2 perm layer may extend below and underneath drop inlet.
- Elevation of perforated pipe underdrain is atop gravel layer.
- See Appendix B for soil mix specification, planting and irrigation guidance.
- See Chapter 3 for factors and equations used to calculate V_1 , V_2 and orifice diameter.

Bioretention Facility

Plan
Not to Scale



Appendix C
Letter of Approval for
Hydromodification Compliance



Contra Costa County
Flood Control
& Water Conservation District

Julia R. Bueren,
ex officio Chief Engineer
Steve Kowalewski,
Deputy Chief Engineer

March 20, 2014

Jack Dhaliwal
City of Brentwood
Engineering
150 City Park Way
Brentwood, CA 94513

Our Files: 4001-20; x-ref: 060-13

Dear Mr. Dhaliwal:

The Contra Costa County Flood Control and Water Conservation District (FC District) owns and maintains several regional flood control channels within the City of Brentwood (City). As requested, we have reviewed those facilities in relation to the Contra Costa Clean Water Program's hydrograph modification requirements for stormwater discharges from new development.

Marsh Creek from Creekside Park to its discharge into Big Break was constructed in the 1960's by the Soil Conservation Service to reduce flood risk and erosion of agricultural lands. This also applies to Line E along Grant Street (from Lone Tree Way to Marsh Creek) and its tributary Line E-1 parallel to Adams Lane (from Lone Tree Way to Marsh Creek). These channels contain erosion protection features along the entire length and are considered engineered hardened channels generally not occupying the original creek alignment. Thus, they are at low risk of erosion from new stormwater flows and meet the new development Hydromodification Management Requirements for Flow Control Table 1-2 under Option 4a.

Sand Creek (from the drop structure at Lower Sand Creek Basin to Marsh Creek), Deer Creek (From Fairview Ave. to Marsh Creek), and Dry Creek (From Fairview Ave. to Marsh Creek) were also constructed by the Soil Conservation Service in the 1960's, but their erosion control features are only at drop structures, not throughout. However, we have not observed erosion in these facilities over the years, only sediment deposition, and thus consider them to be at low risk of erosion from new stormwater flows. For that reason, we feel that these facilities also meet the new development Hydromodification Management Requirements for Flow Control Table 1-2 under Option 4a.

"Accredited by the American Public Works Association"

255 Glacier Drive • Martinez, CA 94553-4825

TEL: (925) 313-2000 • FAX: (925) 313-2333

www.cccpublicworks.org

The above determinations do not affect the Provision C.3 stormwater treatment requirements for new development. They also do not affect the FC District's requirements for new development to pay drainage fees and install planned drainage area facilities.

We appreciate the opportunity to review development issues in the City and welcome continued coordination. Please contact me if you have any questions at (925) 313-2390 or tjens@pw.cccounty.us.

Sincerely,



Tim Jensen
Senior Civil Engineer
Contra Costa County Flood Control
& Water Conservation District

TJ:cw
G:\fldctl\CurDev\CITIES\Brentwood\4000 Creeks\4001-06\BtwdHydroMod.docx

c: S. Kowalewski, Deputy Chief Engineer
M. Carlson, Flood Control
M. Boucher, Flood Control

Exhibits

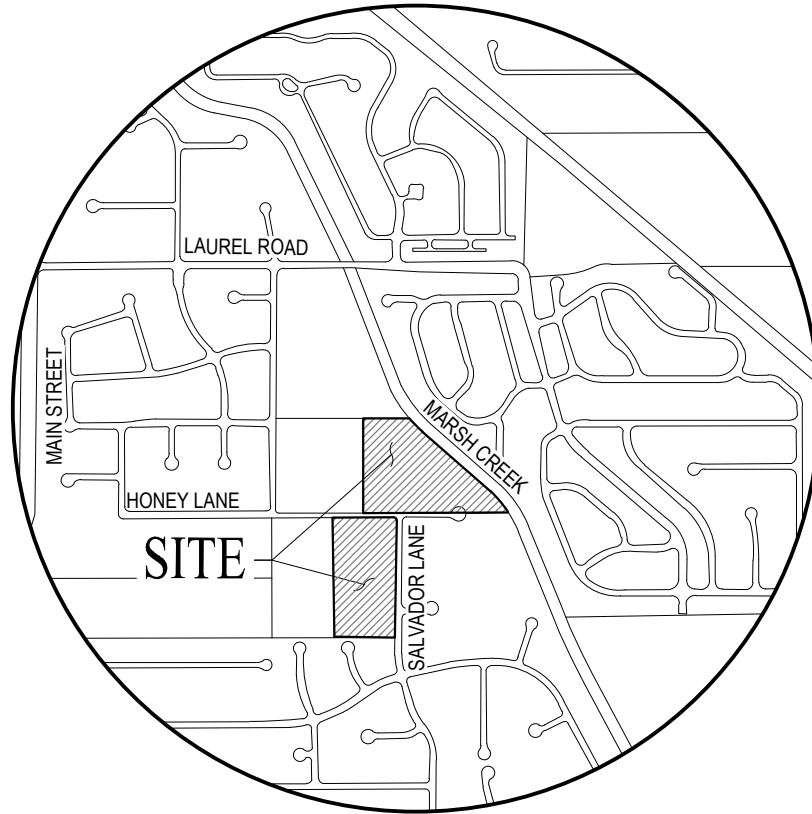


EXHIBIT 1 VICINITY MAP

CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

DATE: JANUARY, 2022 NOT TO SCALE



SAN RAMON (925) 866-0322
ROSEVILLE (916) 788-4456
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CIVIL ENGINEERS SURVEYORS PLANNERS



EXHIBIT 2 SITE AERIAL

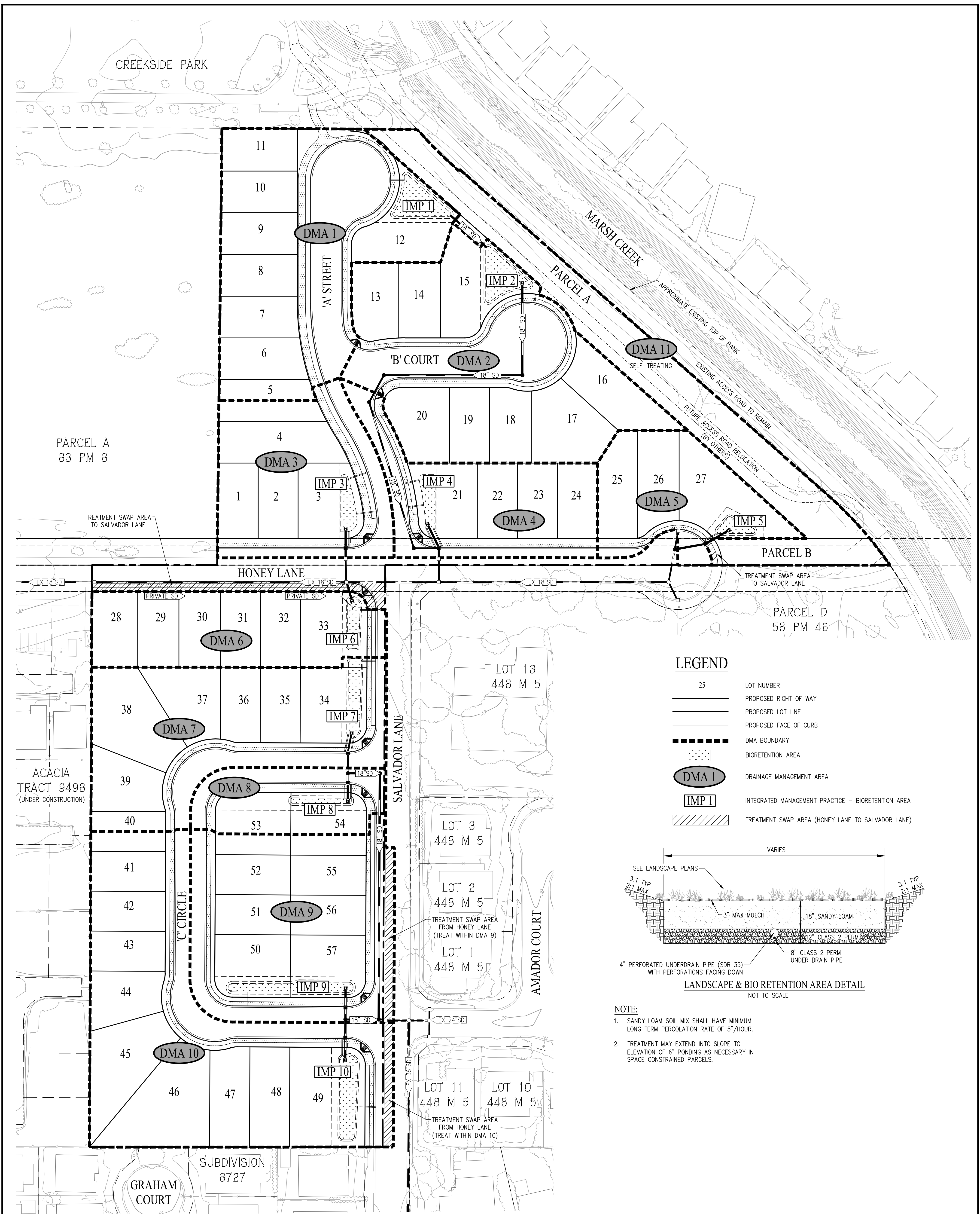
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

DATE: JANUARY, 2022 SCALE: 1" = 200'



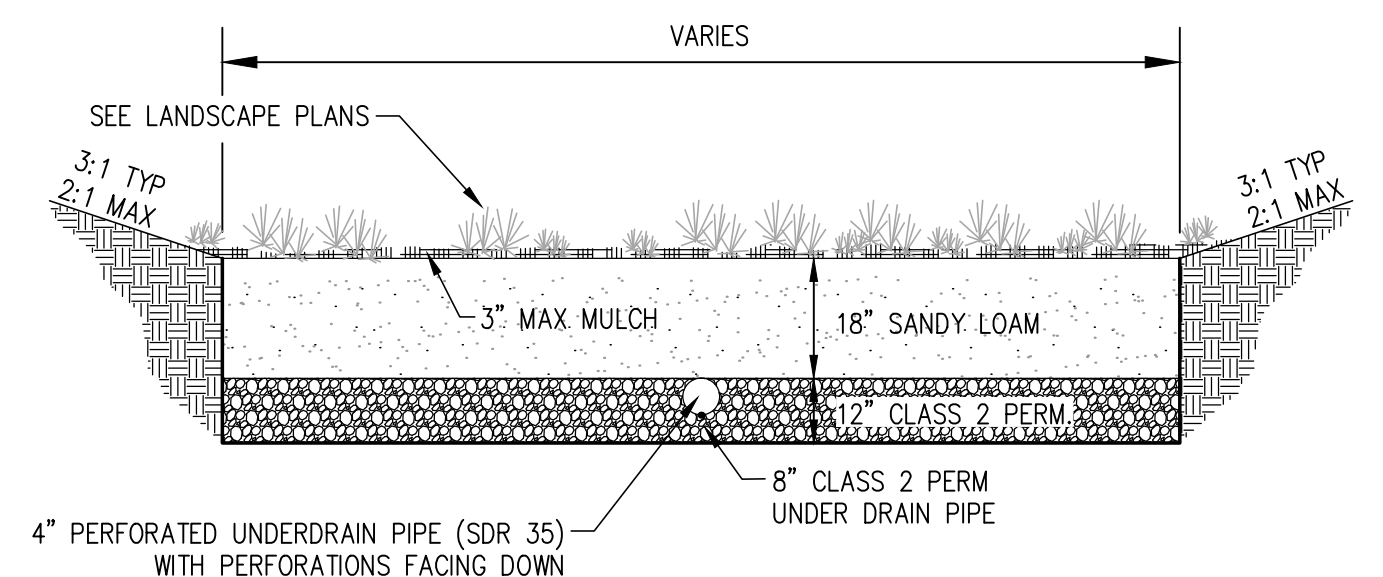
SAN RAMON (925) 866-0322
ROSEVILLE (916) 788-4456
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CIVIL ENGINEERS ■ SURVEYORS ■ PLANNERS



LEGEND

- 25 LOT NUMBER
- PROPOSED RIGHT OF WAY
- PROPOSED LOT LINE
- PROPOSED FACE OF CURB
- DMA BOUNDARY
- BIORETENTION AREA
- DMA 1 DRAINAGE MANAGEMENT AREA
- IMP 1 INTEGRATED MANAGEMENT PRACTICE - BIORETENTION AREA
- TREATMENT SWAP AREA (HONEY LANE TO SALVADOR LANE)



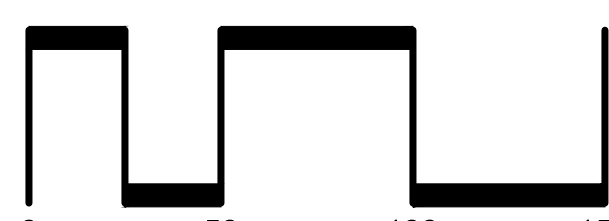
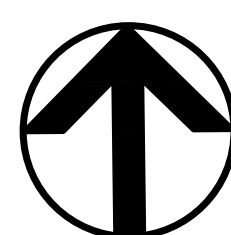
NOTE:

1. SANDY LOAM SOIL MIX SHALL HAVE MINIMUM LONG TERM PERCOLATION RATE OF 5"/HOUR.
2. TREATMENT MAY EXTEND INTO SLOPE TO ELEVATION OF 6" PONDING AS NECESSARY IN SPACE CONSTRAINED PARCELS.

**EXHIBIT 3
HONEY / CREEKSIDE
PRELIMINARY STORMWATER
CONTROL PLAN
SUBDIVISION 9579**

CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

SCALE: 1" = 50' DATE: JANUARY, 2022



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SHEET NO.
TM-5

Appendix I
Traffic Study Memorandum



TECHNICAL MEMORANDUM

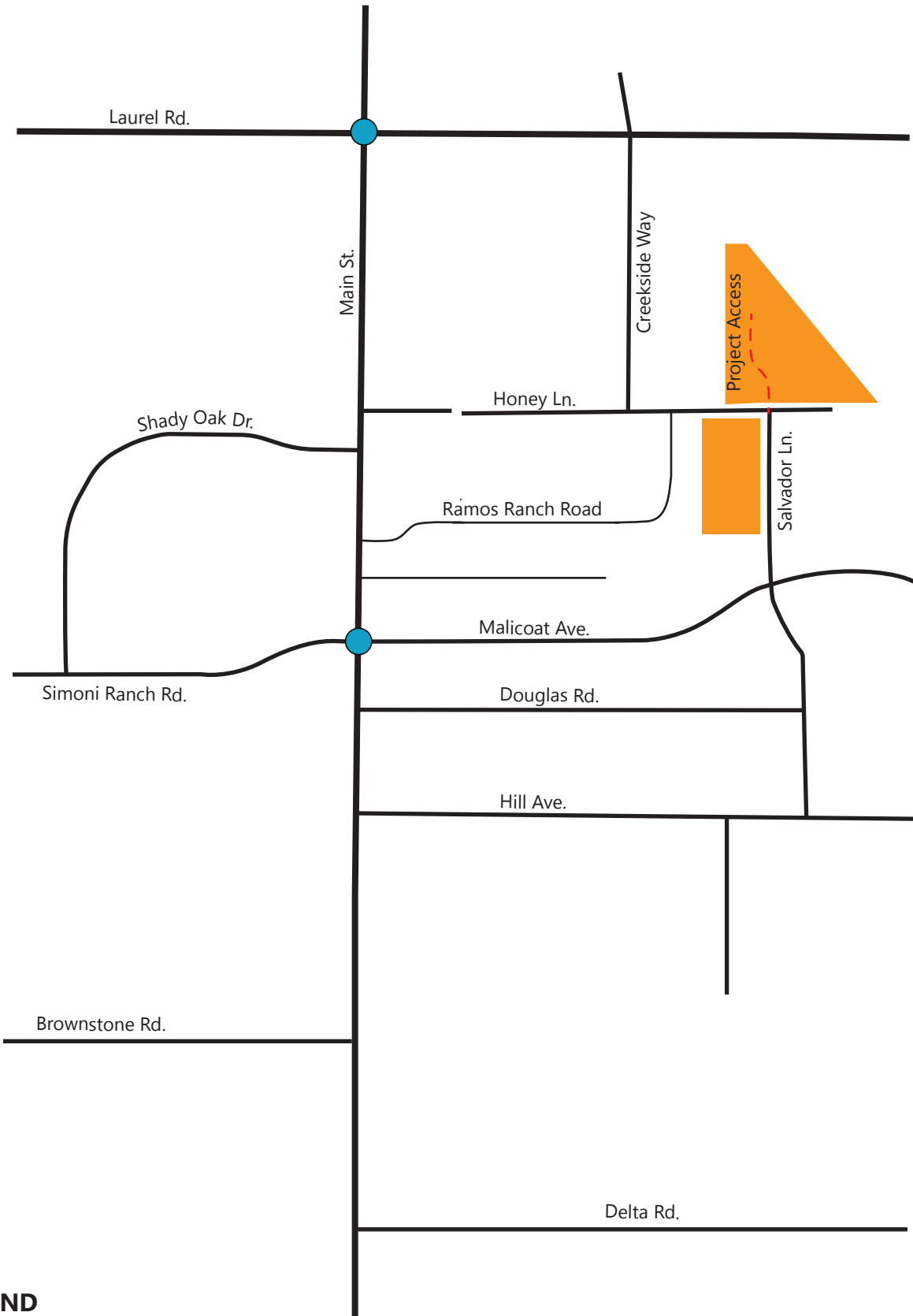
Date: November 11, 2021
To: Jeff Lawrence
From: Chris Kinzel
Subject: **Traffic Study for 463 and 560 Honey Lane in Oakley, CA**

Introduction

This memorandum summarizes the results of the Traffic Analysis for the housing development located at 463 and 560 Honey Lane in the City of Oakley. The proposed project would demolish an existing single-family home at 463 Honey Lane and construct a 57-dwelling unit multifamily development at 463 and 560 Honey Lane. The project is located on the north and south sides of Honey Lane, east of Creekside Way. Direct access to the project site is proposed to be provided via Honey Lane and Salvador Lane. Additionally, although the project is near Ramos Ranch Road, a new roadway which connects Main Street and Honey Lane, this roadway is gated and will not provide access for 463 and 560 Honey Lane. The project proposes to extend Salvador Lane to the north to provide access to residences north of Honey Lane, and modify the existing intersection at Honey Lane and Salvador Lane to a four-legged, all-way stop control intersection. Surrounding land uses include single-family detached homes, and a neighborhood park. **Figure 1** displays the vicinity map. **Figure 2** illustrates the proposed site plan for the project.

The purpose of this study is to identify the potential transportation impacts related to the proposed development. The evaluation of potential project traffic impacts follow the standards and methodologies set forth by Traffic Impact Analysis Guidelines, adopted by the City of Oakley in October 2018. As per the Guidelines, the project does not require a full Transportation Impact Study (TIS), however, analysis of site access, on-site parking and circulation, parking supply, sight distance, and project generated vehicle miles travelled are required to ensure the project does not impact traffic on the surrounding area.

Figure 1: Vicinity Map



LEGEND




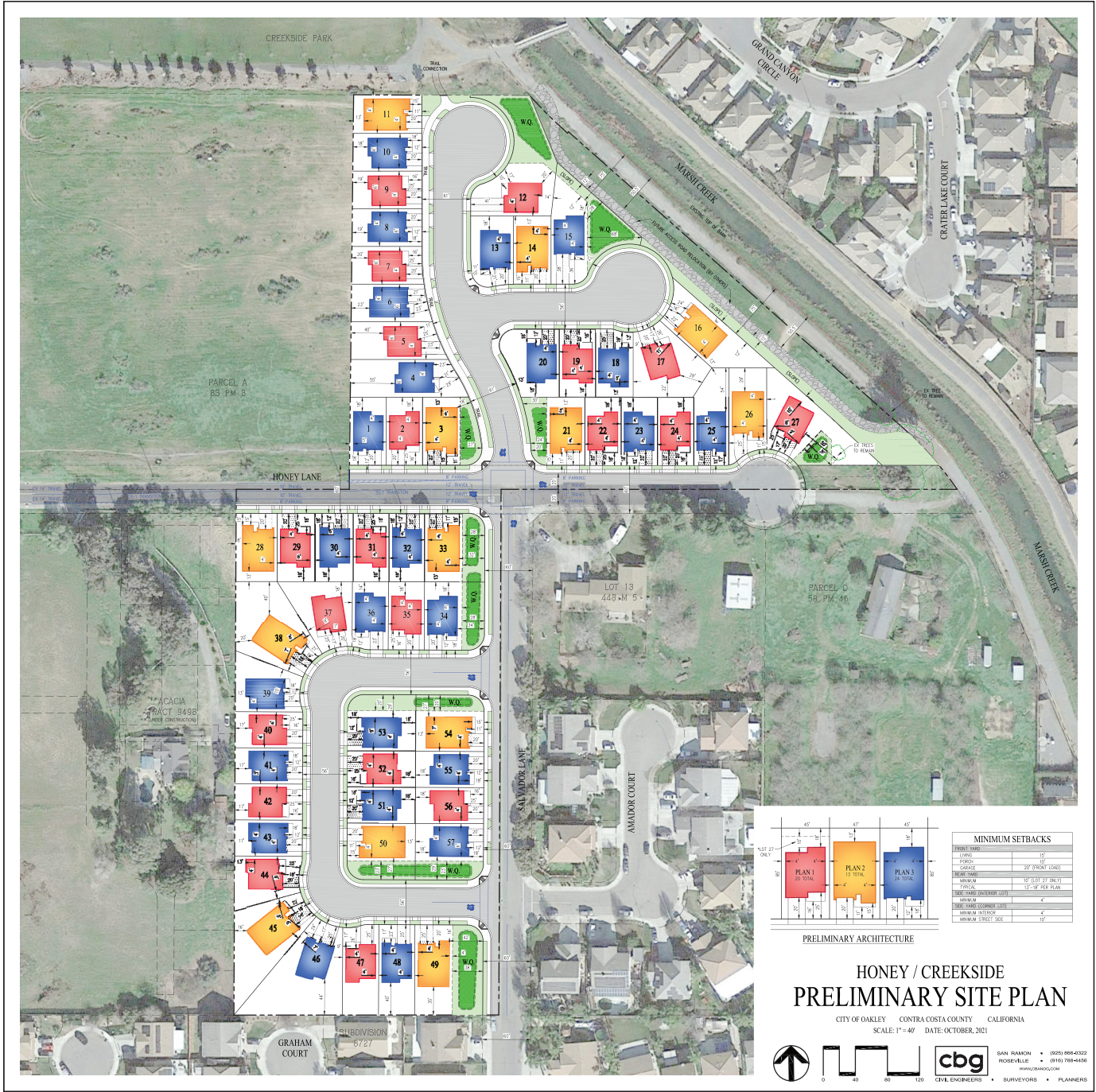
-  Signalized Intersections
-  Project Site
-  Project Access



Figure 2: Site Plan



Existing Setting

This section describes the existing conditions of the transportation system within the study area of the project. It describes the transportation facilities in the vicinity of the project site, including the roadway network, transit service, and pedestrian and bicycle facilities.

EXISTING ROADWAY SYSTEM

Important roadways adjacent to the project site are discussed below:

Honey Lane is an east-west, two-lane local street in the vicinity of the project site. The roadway extends between Heritage Way in the west and the end of the roadway to the east of Salvador Lane. Honey Lane provides access to single family residences. Honey Lane provides a continuous sidewalk on the north side between Heritage Way and Creekside Way, and on the south side east of Creekside Way. There are no bicycle facilities along the roadway. Street lighting is provided via overhead street lights on the north side of the roadway between Heritage Way and Creekside Way. The roadway provides indirect access to the project site via the intersection at Honey Lane and Salvador Lane. The posted speed limit on Honey Lane is 25 miles per hour (mph).

Salvador Lane is a north-south, two-lane local street in the vicinity of the project site. Salvador Lane currently extends south from Honey Lane in the north to Hill Avenue to the south, however, the project proposes to extend the roadway north of Honey Lane. Salvador Lane provides access to single family residences. Salvador Lane features continuous sidewalks on the east side between Honey Lane and 125 feet south of Amador Court, and on both sides between 125 feet south of Amador Court and Hill Avenue. There are no bicycle facilities along the roadway. Street lighting is provided via overhead street lights along the roadway where sidewalks are present. The roadway provides access to the project site north and south of Honey Lane. The posted speed limit on Salvador Lane is 25 mph.

Creekside Way is a north-south, two-lane local street in the vicinity of the project site. Creekside Way extends between Laurel Road to the north and Honey Lane to the south. Creekside Way provides access to single family residences on the west side and a neighborhood park on the east side. The roadway features continuous sidewalks on both sides between Laurel Road and Century Way, and on the west side between Century Way and Honey Lane. There are no bicycle facilities along the roadway. Street lighting is provided via overhead street lights along west side of the roadway. The posted speed limit on Creekside Way is 25 mph.

Mailcoat Avenue is an east-west, two-lane local street in the vicinity of the project site. Mailcoat Avenue extends between Main Street to the west and Hill Avenue to the east. Mailcoat Avenue provides access to single family residences and one market. The roadway features continuous sidewalks on both sides for the entire length of the segment. There are no bicycle facilities along the roadway. Street lighting is provided via overhead street lights on both sides between Dobson Street and Hill Avenue. The posted speed limit on Mailcoat Avenue is 25 mph.

Ramos Ranch Road is an east-west, two-lane local street in the vicinity of the project site. Ramos Road connects Main Street to the west and Honey Lane to the north. Ramos Road provides access to single family residences in the Acacia Residential development. The roadway features continuous sidewalks on both sides for the entire length of the segment. There are no bicycle facilities along the roadway. The posted speed limit on Ramos Road is 25 mph. Ramos Ranch Road is gated on both ends and will not be available to traffic from the proposed new Honey Lane projects.

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 include 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, continuous sidewalks exist on at least one side of Honey Lane, Salvador Lane, Creekside Way and Mailcoat Avenue. Curb ramps exist along the sidewalks, however, crosswalks are not present in the immediate project vicinity.

EXISTING BICYCLE FACILITIES

Bicycle facilities include the following:

- Multi-use Path (Class I) – Off-street two-way bikeways physically separated from motor vehicle traffic and used by people bicycling, walking and other non-motorized users.
- Separated Bike Lanes (Class IV) – Dedicated, on-street bikeway physically distinct from the sidewalk and separated from motor vehicle traffic by a physical object like a curb, post, or parking.
- Bike Lanes (Class II) – Dedicated, on-street space for bicyclists delineated with painted pavement stripes and symbols. May also have striped buffers between bicycles and automobile travel lanes.
- Bike Routes (Class III) – Designated roadways for bicycle use by signs or other markings which may or may not include additional pavement width for cyclists.
- Bike Boulevard (Class III) – Bike routes on calmer streets that are enhanced with traffic calming features.

The Marsh Creek Regional Trail is a Class I bicycle facilities (off-street bike path) that runs along Marsh Creek through the City of Oakley, and is accessible via Honey Lane and Creekside Way. Several Class II and Class III bicycle facilities exist in the City of Oakley, however, there are no additional bicycle facilities existing or proposed in the immediate project vicinity.

The City of Oakley General Plan Update 2021 illustrates existing and proposed bicycle facilities in the City. Overall, there are no proposed bicycle facilities in the immediate project vicinity.

EXISTING TRANSIT FACILITIES

Tri Delta Transit operates bus service services in the City of Oakley and surrounding East Contra Costa County. The closest transit stops to the proposed project site are located at the Main Street and Laurel Road intersection, located 0.6 miles from the project site. These stops are served by Tri Delta Transit local bus routes 391 and 393. **Table 1** describes weekday and weekend services and frequencies for the local bus routes.

Table 1: Existing Transit Services

Route	From	To	Weekdays		Saturday		Sunday	
			Operating Hours	Headway (minutes)	Operating Hours	Headway (minutes)	Operating Hours	Headway (minutes)
391	Pittsburg Center BART	Brentwood Park & Ride	4:06 a.m.-1:28 a.m.	30-74	-	-	-	-
393	Antioch BART	Brentwood Park & Ride	-	-	5:17 a.m.-12:05 a.m.	60	6:18 a.m.-12:56 a.m.	60

Source: trideltatransit.com

Local Transportation Analysis

As per the Caltrans Transportation Impact Study Guide and the Caltrans staff guidance, the proposed project does not require intersection analysis. The following analysis details trip generation, distribution, field observations, project site circulation and access, transit access, bicycle and pedestrian access, parking supply and drive-through operations.

PROJECT TRIP GENERATION

TJKM developed estimated project trip generation for the proposed project based on published trip generation rates from the *Institution of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition* (2021). TJKM used published trip rates for the ITE land use Single Family Detached (ITE Code 210) for both the proposed and existing land uses. Additionally, **Table 2** shows the expected trips generated by the proposed project. The proposed project is expected to generate a total of 529 net new daily trips, 39 weekday a.m. peak hour trips (10 inbound, 29 outbound) and 53 weekday p.m. peak hour trips (33 inbound trips, 20 outbound trips).

VEHICLE TRIP DISTRIBUTION

The distribution of peak-hour vehicle trips generated by the project was determined based on the methodology used for the Citywide Traffic Model (2019). Based on that methodology, trip distribution for residential developments are as follows: 45 percent of peak-hour trips are to/from origins and designations west of Oakley via SR 4; 15 percent are to/from origins and destinations south/east of Oakley via SR 4; 20 percent are to/from other destinations near Oakley via other routes; and 20 percent are internal to Oakley.

Table 2: Project Trip Generation

Trip Generation for a Housing Development on Honey Lane, Oakley, CA																
Size			Daily		Weekday AM Peak					Weekday PM Peak						
	Rate	Trips	Rate	In %	Out %	In	Out	Total	Rate	In %	Out %	In	Out	Total		
Proposed Land Use																
Single-Family Detached ¹	57	DU ²	9.43	538	0.70	26	74	10	30	40	0.94	63	37	34	20	54
Existing Land Use																
Single-Family Detached ¹	1	DU ²	9.44	9	0.74	25	75	0	1	1	0.99	63	37	1	0	1
Total Net Trips				529				10	29	39				33	20	53

Source: ITE Trip Generation Manual, 11th Edition, 2021

Notes:

¹Single-Family Detached (ITE Code 210) vehicle trip rates are based upon number of dwelling units.

²DU – dwelling units

SITE ACCESS AND ON-SITE CIRCULATION

This section analyzes site access and internal circulation for vehicles, pedestrians and bicycles based on the site plan presented in **Figure 2** (dated May 27, 2021). TJKM reviewed internal and external access for the project site for vehicles, pedestrians, and bicycles.

Vehicle Access

The site plan (**Figure 2**) shows that vehicle access to the proposed residences are provided via private driveways on Honey Lane, Salvador Lane, and internal roadways proposed as part of the project. Vehicles will park in the dwelling unit driveways or along the roadways. The project proposes to extend Salvador lane north of Honey Lane. Vehicles will be able to enter and exit the residences with left- and right-turn movements entering and exiting the full-access driveways. The project does not expect to have a significant impact on eastbound and westbound vehicular traffic on Honey Lane. The project does not propose any streetscape changes to Honey Lane. It should be noted the project should follow City of Oakley requirements for residential driveway. Based on the evaluation, the existing and proposed roadways are expected to provide adequate project site access for passenger vehicles.

TJKM also examined the project site plan (**Figure 2**) in order to evaluate the adequacy of on-site circulation for vehicles, garbage trucks and emergency vehicles. It is assumed that garbage trucks and emergency vehicles will access the properties along the curb. The access roadways allow parking on both sides. It is assumed that vehicles will enter and park in the private driveways or along the access roadway. Overall, the proposed on-site vehicle circulation should not result in any significant operational issues on City streets.

Pedestrian Access

In the project vicinity, all intersections are unsignalized. There are continuous sidewalks present along both sides of Honey Lane and Salvador Lane along the project frontage. The project proposes to provide continuous sidewalks on the north side of Honey Lane, east of Salvador Lane, and on the west side of Salvador Lane, south of Honey Lane. Additionally, sidewalks are proposed on both sides of the internal circulation roadways proposed as part of the project. A trail is proposed on the west side of the Salvador Lane extension, north of Honey Lane, which will provide access to the Marsh Creek Trail. Curb ramps exist at the southern corners of the existing Honey Lane and Salvador Lane intersection. The project proposes to add new curb ramps to the northern and southwest quadrants of the Honey Lane and Salvador Lane intersection, along with a striped crosswalks across each approach leg. Currently, adequate street lighting is continuously provided on the east side of Salvador Lane along the project frontage. The transit stops at Main Street and Laurel Road are accessible to and from the project site via existing sidewalks along Honey Lane, Creekside Way, and Laurel Road.

The proposed project does not conflict with applicable or adopted policies, plans or programs related to pedestrians facilities or otherwise decrease the performance or safety of pedestrian facilities. TJKM recommends the project provide adequate curb ramps, which comply with City of Oakley standards, at all intersections and driveways. New sidewalks and curb ramps should comply with American

Disabilities Act (ADA) standards, and should conform to the existing pedestrian network in the project vicinity. The project would not have an adverse effect on the existing or planned pedestrian facilities in the immediate project vicinity.

Bicycle Access

The Marsh Creek Regional Trail is a Class I bicycle facilities (off-street bike path) that runs along Marsh Creek through the City of Oakley, and is accessible via Honey Lane and Creekside Way. Several Class II and Class III bicycle facilities exist in the City of Oakley, however, there are no additional bicycle facilities existing or proposed in the immediate project vicinity.

An adverse effect to bicyclists occurs if the proposed project disrupts existing bicycle facilities; or conflicts and/or creates inconsistencies with adopted bicycle system plans, guidelines, and policies. The City of Oakley General Plan Update 2021 illustrates existing and proposed bicycle facilities in the City. The proposed project does not conflict with adopted policies, plans or programs related to bicycle facilities or otherwise decrease the performance or safety of bicycle facilities in the study area. The project would not have an adverse effect on the existing or planned bicycle facilities in the immediate project vicinity.

Transit Access

The proposed project may add only a few trips to the existing transit services, which can be accommodated by the existing transit capacity. The nearest transit stops are located at the intersection of Main Street and Laurel Road, approximately 0.6 miles from the project site. Thus, the project does not have an adverse effect on the existing transit facilities in the immediate project vicinity.

TRAFFIC SIGNAL IMPACT

Traffic signals do not exist in the immediate vicinity of the project site. The nearest signalized intersections are located at the Main Street and Laurel Road and Main Street and Mailcoat Avenue intersections, approximately 0.6 miles from the project site. It is assumed that project traffic will be travel through these intersections, to and from the project site, via Main Street, Mailcoat Avenue and Laurel Road.

SIGHT DISTANCE ANALYSIS

Sight distance is evaluated to determine if a driver will have adequate visibility to enter a roadway safely without resulting in a conflict with traffic already on the roadway. The project access points should be free and clear of any obstructions that would materially and adversely affect sight distance, thereby ensuring that exiting vehicles can see pedestrians on the sidewalk and other vehicles traveling on adjacent roadways. Landscaping and parking should not conflict with a driver's ability to locate a gap in traffic and see oncoming pedestrians and bicyclists. As per *A Policy on Geometric Design of Highways and Streets, Section 9.5.3.5*, at intersections with all-way stop control, the first stopped vehicle at one approach should be visible to drivers of the first stopped vehicles at all other approaches,

however, no other sight distance criteria are applicable. The project proposes to convert the three-legged intersection at Honey Lane and Salvador Lane into a four-legged, all-way stop control intersection at Honey Lane and Salvador Lane. TJKM recommends red curbs should be implemented at each corner of the intersection for at least 25 feet to ensure parked vehicles do not obstruct sight distance at the intersection. The posted speed limit is 25 miles per hour (mph) on Salvador Lane and is assumed to be 25 mph on Honey Lane. Vehicles will be entering and exiting the dwelling units at low speeds, and vehicles on the internal roadways will travel at low speeds

PARKING ANALYSIS

Based on the project site plan dated May 27, 2021 (**Figure 2**), private residence driveways will be provided at each dwelling unit in the project site. The driveways, along with existing and proposed roadways, will provide parking spaces for the proposed project. The City of Oakley Municipal Code (Section 9.1.1402) requires the following for automobile parking:

- Each Single Family Dwelling Unit shall have at least two covered off-street automobile parking spaces on the same lot.

The proposed project requires a total of 114 covered automobile parking spaces to comply with City of Oakley parking standards. Assuming each single-family home provides a two-car garage, the project complies with the City of Oakley parking supply requirements. Additionally, parking can will be provided via 20-foot driveways at each dwelling unit and 8-foot parking lanes on each side of Honey Lane along the project frontage.

Vehicle Miles Travelled (VMT) Analysis

TJKM conducted Vehicle Miles Travelled (VMT) analysis for the project in compliance with Senate Bill 743 (SB 743) via the Contra Costa Transportation Authority's (CCTA) recommended VMT analysis methodology. TJKM conducted the analysis for a proposed single-family housing development located at 463 and 560 Honey Lane in Oakley, CA. The project proposes to demolish the existing single family dwelling unit and construct a 57 single-family homes.

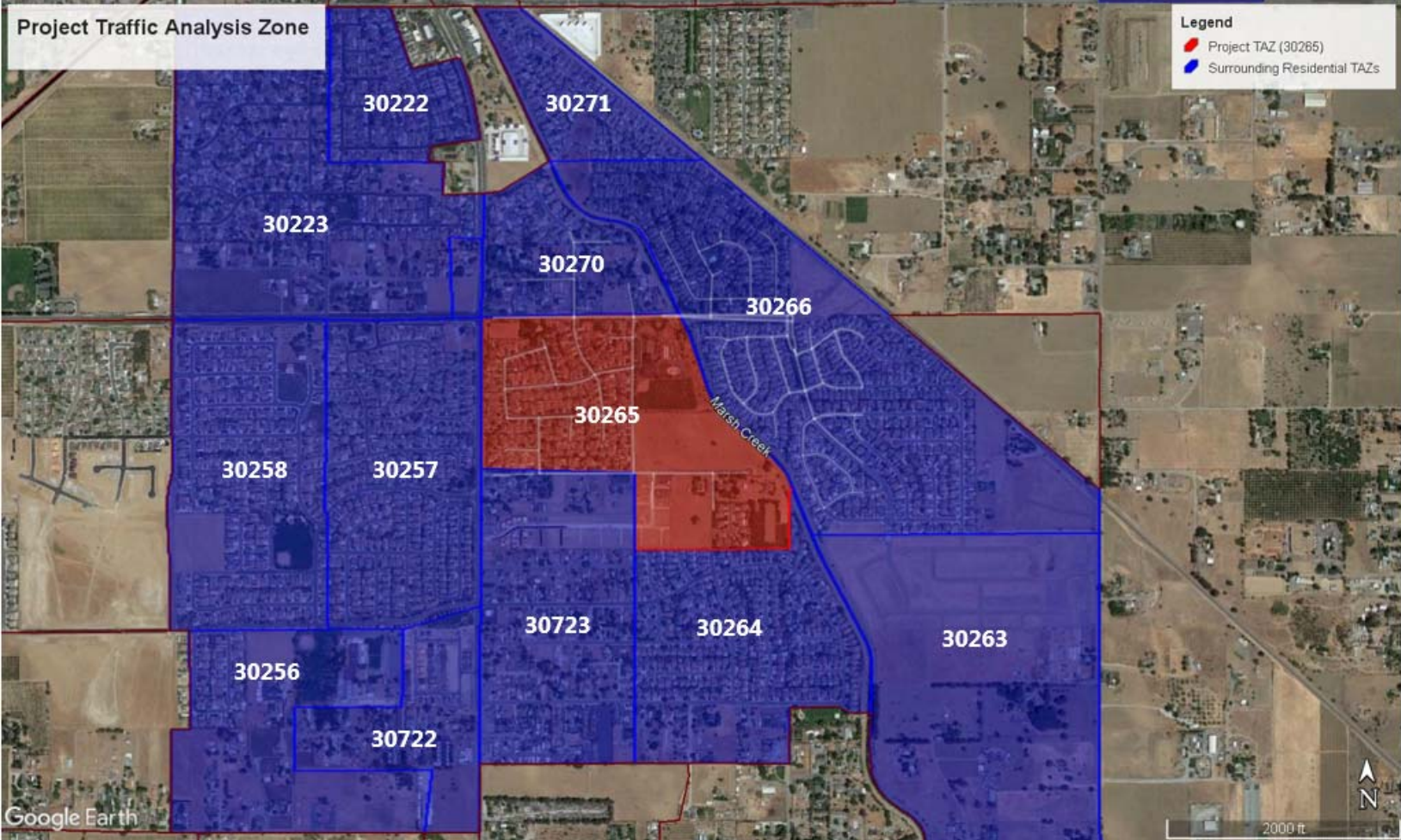
The VMT Analysis was performed using the Contra Costa Transportation Authority (CCTA) Model. The Travel Analysis Zone (TAZ) for this project in the model is #30265. **Figure 3** illustrates the project TAZ and surrounding TAZs with residential land uses. The proposed project was added into the TAZ for the base year to see if the project creates significant VMT impacts.

Two full model runs were performed for this project in accordance to CCTA VMT methodology. The first run is a Base Year (2020) run to analyze existing VMT per capita numbers for the City of Oakley. The second run is a Base Year (2020) plus Project run with addition of the housing units to see if there is a significant impact on VMT.

From the Base Year run, the home based VMT per capita for the City of Oakley is **26.76**. For a project to not be significant, the 85% threshold is set at 0.85×26.76 which is **22.75**. This value is the less stringent home-based VMT per capita number as mentioned in the CCTA VMT methodology guidelines. The Base Year plus Project model run added 57 single-family dwelling units into TAZ #30265. The resultant home based VMT per capita for the project TAZ is **21.37**.

Since 21.37 falls under the 85% threshold of 22.75 established above, the 463 and 560 Honey Lane Residential Project has ***less than significant impact*** on the City of Oakley VMT.

Figure 3: Traffic Analysis Zones in Project Study Area



Conclusions

Project Trip Generation

The proposed project is expected to generate a total of 529 net new daily trips, 39 weekday a.m. peak hour trips (10 inbound, 29 outbound) and 53 weekday p.m. peak hour trips (33 inbound trips, 20 outbound trips).

Site Access and On-Site Circulation

TJKM examined the site plan (**Figure 2**) to evaluate the adequacy of vehicle access to the project site. The project proposes to extend Salvador lane north of Honey Lane, modifying the existing three-legged intersection at Honey Lane and Salvador Lane to a four-legged, stop-control intersection. The project does not propose any streetscape changes to Honey Lane. Project traffic is expected to utilize Main Street, Laurel Road, Creekside Way, Honey Lane, Salvador Lane and Mailcoat Avenue. Based on the evaluation, the existing and proposed roadways are expected to provide adequate project site access for passenger vehicles.

TJKM also evaluated the adequacy of on-site circulation for vehicles, garbage trucks and emergency vehicles. Assuming that garbage trucks and emergency vehicles will access the properties along the curb, the proposed on-site vehicle circulation should not result in any significant operational issues on City streets.

Pedestrian, Bicycle and Transit Adverse Effects

The proposed project does not conflict with existing and planned pedestrian or bicycle facilities. The proposed project will add very few trips to the existing transit facilities, which can be accommodated by the existing transit capacity and the transit stops at the Main Street and Laurel Road intersection.

Parking Analysis

Assuming each single-family home provides a two-car garage, the project complies with the City of Oakley parking supply requirements.

Sight Distance Analysis

As per *A Policy on Geometric Design of Highways and Streets, Section 9.5.3.5*, at intersections with all-way stop control, the first stopped vehicle at one approach should be visible to drivers of the first stopped vehicles at all other approaches, however, no other sight distance criteria are applicable. The project proposes to convert the three-legged intersection at Honey Lane and Salvador Lane into a four-legged, all-way stop-controlled intersection at Honey Lane and Salvador Lane. TJKM recommends red curbs should be implemented at each corner of the intersection for at least 25 feet to ensure parked vehicles do not obstruct sight distance at the intersection.

Vehicle Miles Travelled (VMT) Analysis

From the Base Year run, the home based VMT per capita for the City of Oakley is **26.76**. The resultant home based VMT per capita for the project site TAZ is **21.37**. Since 21.37 falls under the 85% threshold of 22.75, the 463 and 560 Honey Lane Residential Project has ***less than significant impact*** on the City of Oakley VMT.