City of SACRAMENTO
Community Development

300 Richards Blvd., 3rd Floor
Sacramento, CA 95811

Help Line: 916-264-5011
CityofSacramento.org/dsd

MITIGATED NEGATIVE DECLARATION

The City of Sacramento, California, a municipal corporation, does hereby prepare, declare, and publish this Mitigated Negative Declaration for the following described project:

Norwood Townhomes Project (Z21-086): The approximately 3.7-acre project site is located southeast of the intersection between Main Avenue and Norwood Avenue within the North Sacramento Community Plan Area of the City of Sacramento, California (Assessor's Parcel Number [APN] 237-0040-001). The project site is currently undeveloped and has several small clusters of trees within the northern portion of the site. Surrounding existing uses include a single-family residential subdivision to the north, across Main Avenue, and west, across Norwood Avenue; scattered rural residences to the east and south; and Norwood Junior High School to the southwest, across Norwood Avenue. The City of Sacramento 2035 General Plan designates the project site as Suburban Neighborhood High Density, and the site is zoned Multi-Unit Dwelling Zone (R-2B). The proposed project would be consistent with the current General Plan and Zoning designations for the project site.

The proposed project would subdivide the project site into 48 lots, ranging from 1,295 square feet (sf) to 1,966 sf, to facilitate the development of 48 townhome units and off-site improvements to Norwood Avenue and Main Avenue. Site access would be provided by two new driveways off of Norwood Avenue. All on-site trees would be removed to accommodate the development. The proposed project would require approval by the City of Sacramento of a Tentative Subdivision Map and Site Plan and Design Review.

The Lead Agency is the City of Sacramento. The City of Sacramento, Community Development Department, has reviewed the proposed project and, on the basis of the whole record before it, has determined that there is no substantial evidence that the project, with mitigation measures as identified in the attached Initial Study, will have a significant effect on the environment. This Mitigated Negative Declaration reflects the lead agency's independent judgment and analysis. An Environmental Impact Report is not required. This Mitigated Negative Declaration has been prepared pursuant to the California Environmental Quality Act (Public Resources Code [PRC] Sections 21000 et seq.), CEQA Guidelines (Title 14, Sections 15000 et seq. of the California Code of Regulations), the Sacramento Local Environmental Regulations (Resolution 91-892), and the Sacramento City Code.

Due to concerns over COVID-19, the City of Sacramento, Community Development Department's Public Counter, at 300 Richards Boulevard, 3rd Floor, Sacramento, CA 95811 is closed until further notice. A copy of this document and all supportive documentation may be reviewed through the City's website at https://www.cityofsacramento.org/Community-Development/Planning/Environmental/Impact-Reports.

Environmental Services Manager, City of Sacramento, California, a municipal corporation

By: Ron Bess

Date: August 29, 2022

City of SACRAMENTO

NORWOOD TOWNHOMES PROJECT
(Z21-086)

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

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

ORGANIZATION OF THE INITIAL STUDY

This Initial Study is organized into the following sections:

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

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

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

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

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

REFERENCES CITED: Identifies source materials that have been consulted in the preparation of the Initial Study.

APPENDICES: Appends technical information that was referenced as attached in the preparation of the Initial Study.

SECTION I - BACKGROUND

Project Name and File Number:	Norwood Townhomes Project (Z21-086)
Project Location:	Southeast of the intersection between Main Avenue and Norwood Avenue Sacramento, CA 95838 Assessor's Parcel Number (APN) 237-0040-001
Project Applicant:	Norwood North, LLC 7225 26th Street Rio Linda, CA 95673
Project Planner:	Zach Dahla, Associate Planner (916) 808-5584 jquintanilla@cityofsacramento.org
Environmental Planner:	Ron Bess, Associate Planner (916) 808-8272 Rbess@cityofsacramento.org
Date Initial Study Completed:	July 2022

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

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

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

As part of the Master EIR process, the City is required to incorporate all feasible mitigation measures or feasible alternatives appropriate to the project as set forth in the Master EIR (CEQA Guidelines Section 15177(d)). Policies included in the 2035 General Plan that reduce significant impacts identified in the Master EIR are identified and discussed. See also the Master EIR for the 2035 General Plan. The mitigation monitoring plan for the 2035 General Plan, which provides references to applicable General Plan policies that reduce the environmental effects of development that may occur consistent with the General Plan, is included in the adopting resolution for the Master EIR. See City Council Resolution No. 2015-0060, beginning on page 60. The resolution is available at:

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

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

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

The City is soliciting views of interested persons and agencies on the content of the environmental information presented in this document. Written comments should be sent at the earliest possible date, but no later than the 30-day review period ending September 29, 2022.

Please send written responses to:

Ron Bess, Associate Planner
Community Development Department
City of Sacramento
300 Richards Boulevard, 3rd Floor
Sacramento, CA 95811
Direct Line: (916) 808-8272
Rbess@cityofsacramento.org

SECTION II - PROJECT DESCRIPTION

INTRODUCTION

The Project Description section of the Initial Study provides a description of the Norwood Townhomes Project (proposed project) location, existing conditions, surrounding land uses, and project components.

PROJECT LOCATION, EXISTING CONDITIONS, AND SURROUNDING LAND USES

The approximately 3.7-acre project site is located southeast of the intersection between Main Avenue and Norwood Avenue, in the City of Sacramento, California (APN 237-0040-001) (see Figure 1). The site is bounded by Main Avenue to the north and Norwood Avenue to the west. Surrounding existing land uses include single-family residential subdivisions to the north, across Main Avenue, and west, across Norwood Avenue; scattered rural residences to the south and east; and Norwood Junior High School to the southwest across Norwood Avenue (see Figure 2).

The project site was previously developed with a single-family residence from 1937 to 1984, but has been undeveloped since 1984. The project site contains 14 trees located in clusters in the northern portion of the site, and the site appears to be graded and regularly disked.

The site is within the North Sacramento Community Plan Area. The City of Sacramento 2035 General Plan designates the project site as Suburban Neighborhood High Density, and the site is zoned Multi-Unit Dwelling Zone (R-2B). The proposed project would be consistent with the current General Plan and zoning designations for the project site.

PROJECT DESCRIPTION

The proposed project would subdivide the 3.7-acre project site into 48 lots, ranging from approximately 1,295 net square feet (sf) to 1,972 net sf, to facilitate the development of 48 single-family townhome units (see Figure 3). The proposed townhome units would consist of six designs with footprints ranging from 966 sf to 983 sf. All proposed townhomes would be designed with a height of 25 feet, six inches. All proposed townhome units would feature a garage, living room, dining room, kitchen, and half-bathroom on the first floor, and three bedrooms, three closets, a washer/dryer area, and two bathrooms on the second floor.

All on-site trees would need to be removed to accommodate the proposed development. The proposed density of the project would be approximately 18 dwelling units per acre (du/ac). The proposed project would require approval by the City of Sacramento of a Tentative Subdivision Map and Site Plan and Design Review, with deviations for lot size, lot depth, lot coverage, and setback.

Access to the project site would be provided through two new driveways from Norwood Avenue along the western border of the project site. An internal roadway network would provide access to the proposed residential units, as well as branch off into a series of private alleys associated with the units. Each residential unit would include a driveway and garage. The project would also include the installation of a new curb and gutter, landscape planter, and sidewalk along the Norwood Avenue and Main Avenue frontages.

The proposed project would also include off-site improvements to Norwood Avenue and Main Avenue. The improvements to Norwood Avenue would include the widening of the east side of the roadway and addition of a travel lane, buffered bike lane, and street parking. A right-turn lane with an attached sidewalk, would be constructed turning east onto Main Avenue. The proposed off-site improvements to Main Avenue would include widening of the south side of the roadway and adding a travel lane, bike lane, and street parking.

Figure 1
Regional Project Location

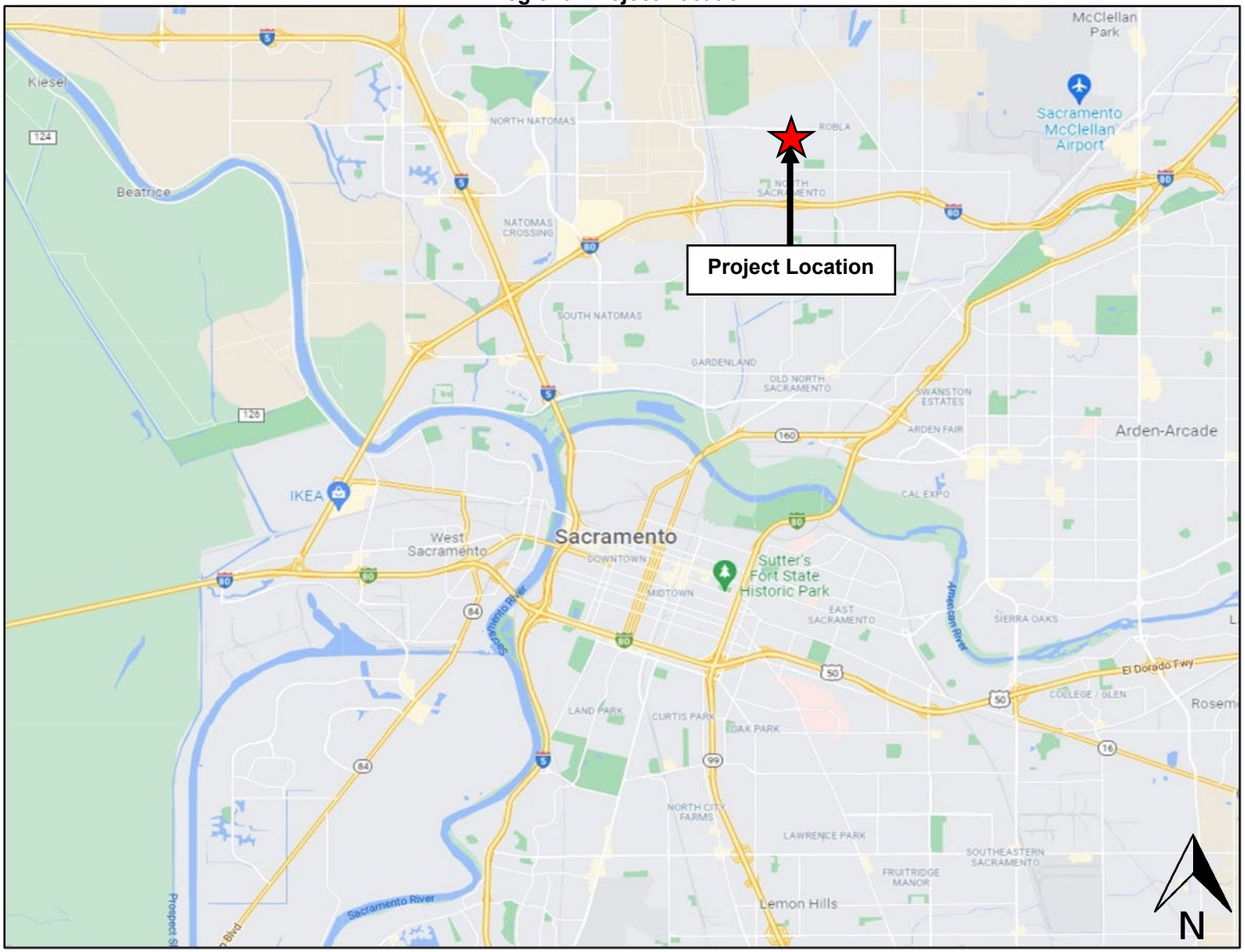


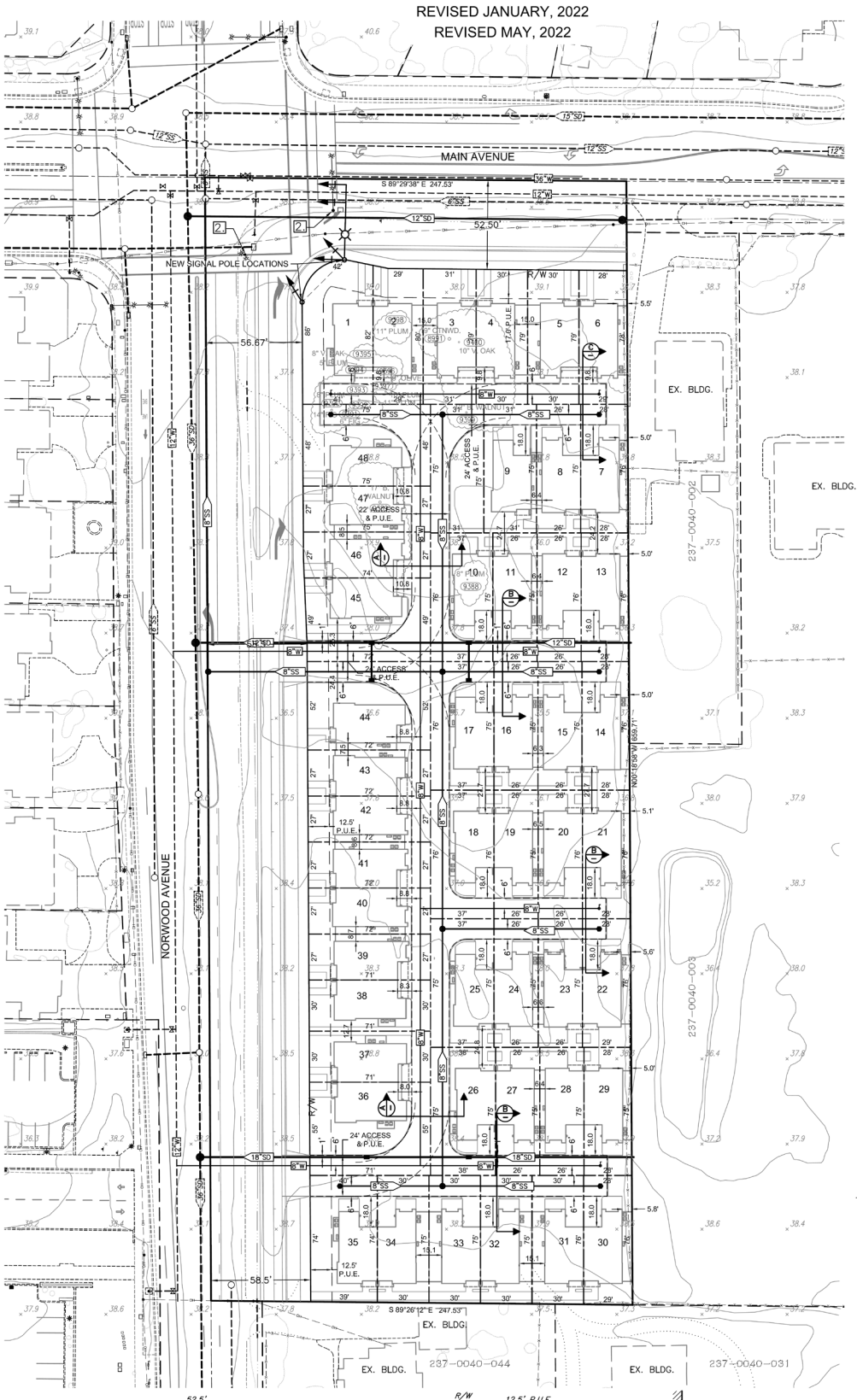
Figure 2
Project Vicinity Map

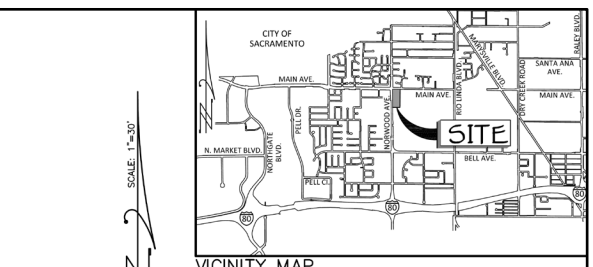
Figure 3
Tentative Subdivision Map

TENTATIVE SUBDIVISION MAP FOR:

NORWOOD AVENUE TOWNHOMES

THE WEST 247.5 FEET OF LOT 8 OF
RANCHO DEL PASO - 14 MAPS 5
CITY OF SACRAMENTO, SACRAMENTO COUNTY, CALIFORNIA
JULY, 2021
REVISED JANUARY, 2022
REVISED MAY, 2022





VICINITY MAP
NO SCALE

SCALE: 1"=30'

GRAPHIC SCALE: 1"=30'

LOT SIZE TABLE:

Lot No.	Net Sq. Ft.	Gross Sq. Ft.
1	1,587.18	3,363.01
2	1,495.64	2,351.57
3	1,563.99	2,463.90
4	1,516.19	2,393.31
5	1,504.98	2,380.29
6	1,556.24	2,229.96
7	1,914.42	2,096.44
8	1,643.02	1,953.56
9	1,966.31	2,338.73
10	1,602.77	2,761.68
11	1,646.76	1,957.96
12	1,646.76	1,957.96
13	1,917.93	2,106.53
14	1,917.07	2,099.57
15	1,642.87	1,953.34
16	1,642.46	1,952.84
17	1,643.27	2,809.83
18	1,643.07	2,809.33
19	1,647.81	1,959.46
20	1,653.98	1,966.54
21	1,940.28	2,111.70
22	1,971.73	2,143.16
23	1,648.23	1,959.71
24	1,653.77	1,966.29
25	1,642.86	2,809.33
26	1,706.36	2,874.86
27	1,648.02	1,952.68
28	1,647.74	1,952.35
29	1,908.94	2,099.19
30	1,965.81	2,167.85
31	1,914.85	2,285.87
32	1,905.84	2,276.87
33	1,896.84	2,267.86
34	1,887.83	2,258.86
35	1,667.13	2,925.97
36	1,906.94	3,882.87
37	1,430.04	2,135.05
38	1,435.13	2,140.20
39	1,295.63	1,930.07
40	1,299.78	1,934.28
41	1,303.80	1,938.31
42	1,307.70	1,942.14
43	1,314.00	1,949.55
44	1,814.72	3,756.86
45	1,709.17	3,582.56
46	1,379.00	2,014.12
47	1,384.31	2,018.76
48	1,718.19	3,599.37

OWNER / APPLICANT:
NORWOOD NORTH, LLC
7225 26TH STREET
RIO LINDA, CA 95673
PH: (916) 923-3434 FAX: (916) 929-5532
EMAIL: JJAEGER@MARQUESPIPELINE.COM

ENGINEER:
BAKER-WILLIAMS ENGINEERING GROUP
6020 RUTLAND DRIVE, SUITE 19
CARMICHAEL, CALIFORNIA 95608
PH. (916) 331-4336 FAX (916) 331-4430
EMAIL: OFFICE@BWENGINEERS.COM

ASSESSOR'S PARCEL NUMBER:
237-0040-001

ACREAGE:
3.7± GROSS ACRES
2.7± NET ACRES

EXISTING USE:
VACANT

PROPOSED USE:
SINGLE FAMILY RESIDENTIAL

EXISTING GENERAL PLAN:
SUBURBAN NEIGHBORHOOD HIGH DENSITY

PROPOSED GENERAL PLAN:
SUBURBAN NEIGHBORHOOD HIGH DENSITY

EXISTING ZONING:
R-2B-R (MULTI-FAMILY)

PROPOSED ZONING:
R-2B-R (MULTI-FAMILY)

LOT SIZE:
VARIES-SEE TABLE

PROPOSED IMPROVEMENTS:
IMPROVEMENTS PER CITY OF SACRAMENTO STANDARDS

SEWER:
CITY OF SACRAMENTO

WATER SUPPLY:
CITY OF SACRAMENTO

DRAINAGE:
CITY OF SACRAMENTO

FIRE PROTECTION:
CITY OF SACRAMENTO

TELEPHONE SERVICE:
A.T.& T.

ELECTRICAL SERVICE:
S.M.U.D.

GAS SUPPLY:
P. G. & E.

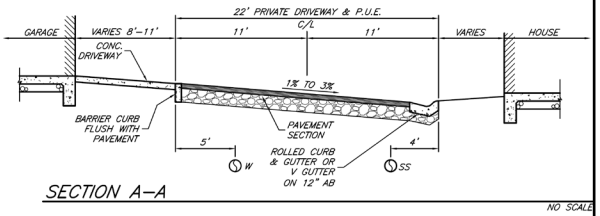
SCHOOL DISTRICT:
ROBLA ELEMENTARY SCHOOL DISTRICT
TWIN RIVERS UNIFIED SCHOOL DISTRICT

PARK DISTRICT:
CITY OF SACRAMENTO PARK DISTRICT

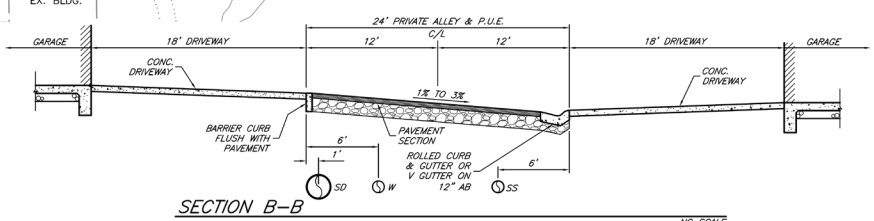
VERTICAL DATUM NOTE:
HILTI NAIL IN LIGHT BASE AT THE NORTHEAST CORNER OF SULLY STREET AND MARLIN SPIKE WAY. CITY OF SAC DATUM ELEVATION: 36.308 (NAVD 88 = 38.819)

BENCHMARK NO.: 257-H7CE

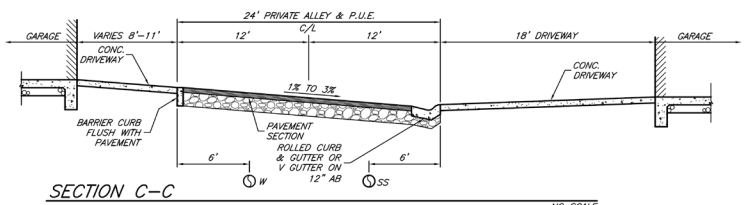
NOTES:
1. ALL TREES ARE TO BE REMOVED.
2. TRAFFIC SIGNAL TO BE RELOCATED PER CITY OF SACRAMENTO STANDARDS.
3. NET SQUARE FOOTAGE IS CALCULATED TO THE ACCESS EASEMENT AND P.U.E.



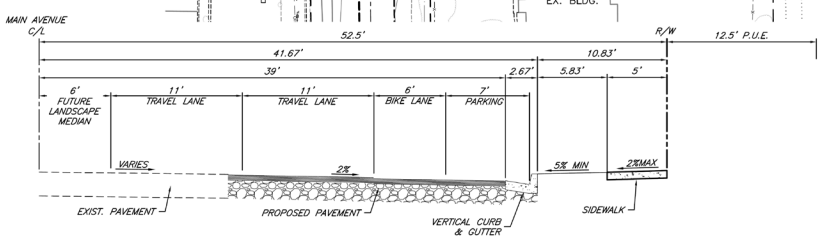
SECTION A-A
NO SCALE



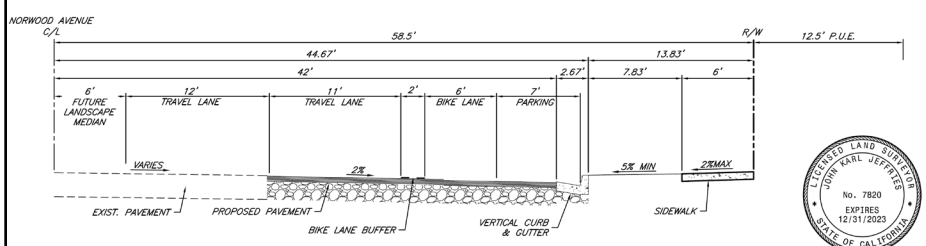
SECTION B-B
NO SCALE



SECTION C-C
NO SCALE



MAIN AVENUE – TYPICAL STREET SECTION
NO SCALE



NORWOOD AVENUE – TYPICAL STREET SECTION
NO SCALE

LICENSED LAND SURVEYOR
JOHN KARL JEFFRIES
No. 7820
EXPIRES 12/31/2023
STATE OF CALIFORNIA

SURVEYOR:
BAKER-WILLIAMS ENGINEERING GROUP
JOHN K. JEFFRIES L.S. 7820

C:\Users\David Cobbs\Desktop\1607037-JKJ Signature.jpg

LICENSE EXPIRES 12/31/2021

BAKER WILLIAMS ENGINEERING GROUP
6020 RUTLAND DRIVE, SUITE 19
CARMICHAEL, CA 95608-0515
Phone (916)331-4336~Fax (916)331-4430
EMAIL: office@bwengineers.com

JOB NO. 20-11-039

Upgraded pedestrian crosswalks, including ramps compliant with the Americans with Disabilities Act, would be installed at the project site's northwest corner, between the southern and eastern portions of the Norwood Avenue/Main Avenue intersection. The existing traffic signal would be relocated to accommodate the proposed roadway improvements. All roadway improvements would be completed in compliance with City standards.

Construction of the proposed project is anticipated to continue over a span of approximately one year. Because the project site is relatively flat and has been previously graded, import and export of soil would not be necessary for construction.

A discussion of the project's utility infrastructure and project entitlements is included below.

Utility Infrastructure

The following discussion relates to the water, wastewater, and stormwater drainage infrastructure components of the proposed project.

Water

Municipal water for the project area is currently supplied by the City of Sacramento Department of Utilities. The City uses surface water from the American and Sacramento rivers, as well as groundwater north of the American River to meet the City's demands. The City would supply water to the proposed project. Existing water mains surrounding the project site include a 12-inch and a 36-inch water main within Main Avenue to the north of the project site, and a 12-inch water main within Norwood Avenue to the west (see Figure 4). Extensions of eight-inch water pipes from the water mains would run throughout the internal roadways of the project, and laterals would extend to each of the residential units.

Wastewater

Wastewater treatment for the project area is currently provided by the City of Sacramento Department of Utilities (DOU) and the Sacramento Regional County Sanitation District (SRCSD). Wastewater generated in the project area is collected in the City's separated sewer system through a series of sewer pipes and flows into the SRCSD interceptor system, where the wastewater is conveyed to the Sacramento Regional Wastewater Treatment Plant (SRWWTP). The SRWWTP is owned and operated by the SRCSD and provides sewage treatment for the entire City. Each building with a wastewater source on each lot would be required to have a separate connection to the sewer system.

In the vicinity of the project site, existing six-inch and 12-inch sanitary sewer mains are located in Main Avenue, and an existing six-inch sewer main is located in Norwood Avenue. The proposed project would connect to the existing sewer lines in the vicinity through a network of eight-inch sewer mains.

Stormwater Drainage

The City's Department of Utilities provides storm drainage service throughout the City by using drain inlets, pumps, and canals. The City provides stormwater drainage with either the City's Combined Sewer System (CSS) or into individual drainage sumps located throughout the City. Stormwater collected by the CCS is transported to the SRCSD's SRWWTP, where runoff is then treated prior to discharge into the Sacramento River. The project site is located in the City of Sacramento Separated Sewer System.

Existing stormwater drainage infrastructure in the project vicinity includes a 15-inch line in Main Avenue, and a 36-inch line in Norwood Avenue. The proposed project drainage system would convey surface drainage to various drainage inlets located throughout the site. The proposed drainage inlets would then convey the drainage to three proposed manholes located in Norwood Avenue, which would connect to the existing 36-inch City storm drain pipe. On-site detention would be provided by oversized drain pipes for storage with an orifice to the off-site drainage system. A number of source control measures would be included, consistent with the *Stormwater Quality Design Manual for the Sacramento Region* such as trash capture devices, storm drain inlet markings and signage, and low impact development control measures.

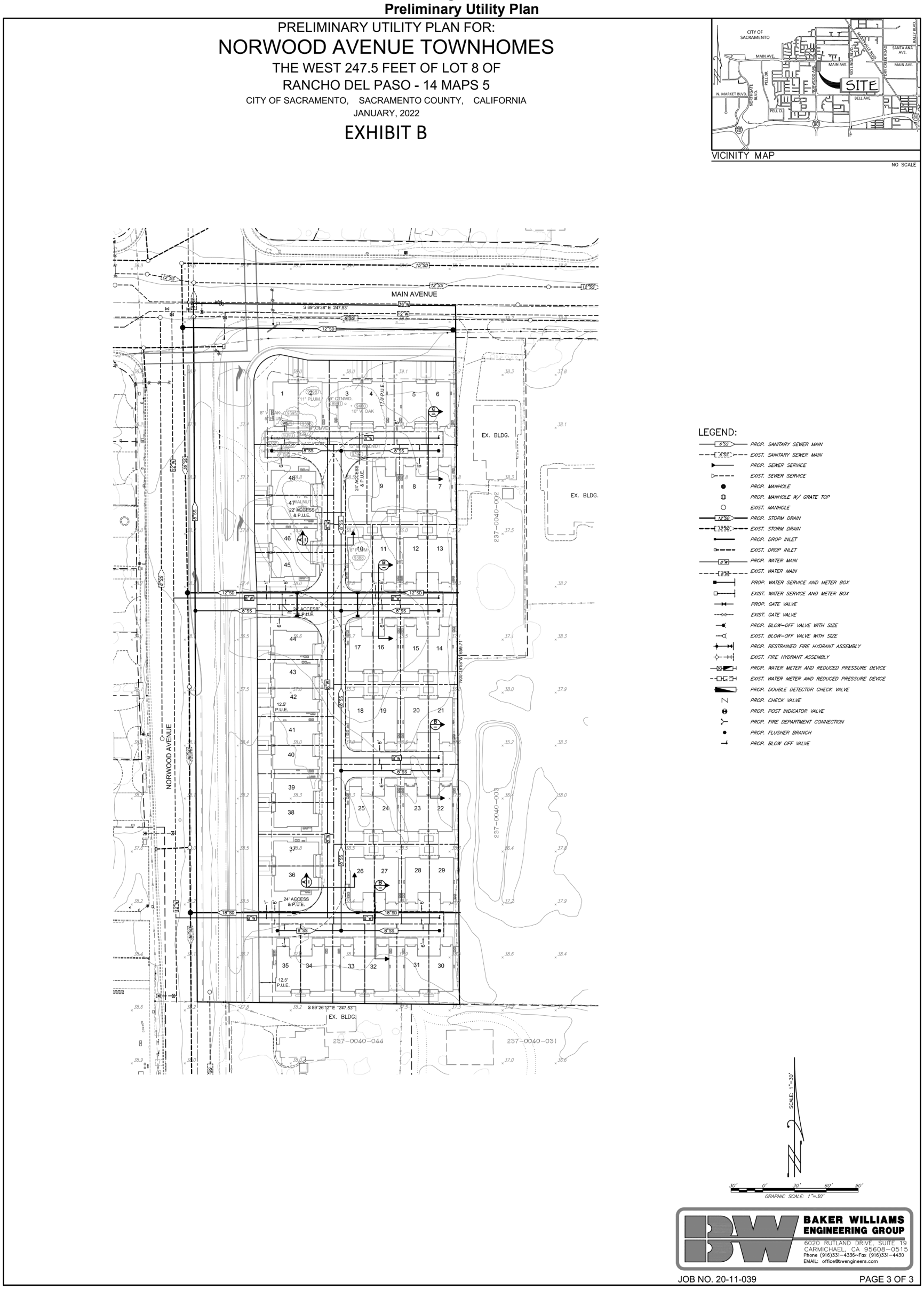
The project-specific drainage study demonstrates how the project would meet the criteria in the current Department of Utilities Onsite Design Manual for review and approval by the DOU.

Project Entitlements

The proposed project would require approval of the following entitlements:

- Approval of the Initial Study (IS) and Mitigation and Monitoring Plan;
- Approval of a Tentative Subdivision Map; and
- Approval of Site Plan and Design Review.

Figure 4
Preliminary Utility Plan



SECTION III – ENVIRONMENTAL CHECKLIST AND DISCUSSION

LAND USE, POPULATION AND HOUSING, AGRICULTURAL RESOURCES, WILDFIRE

Introduction

CEQA requires the Lead Agency to examine the effects of a project on the physical conditions that exist within the area that would be affected by the project. CEQA also requires a discussion of any inconsistency between the proposed project and applicable general plans and regional plans.

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

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

This section of the IS identifies the applicable land use designations, plans and policies, and permissible densities and intensities of use, and discusses any inconsistencies between these plans and the proposed project. This section also discusses population and housing, agricultural resources, and wildfire, and the effect of the project on these resources.

Discussion

<u>Land Use</u>

The project site is designated Suburban Neighborhood High Density in the 2035 General Plan, and the project site is zoned R-2B. The Suburban Neighborhood High Density designation provides for single-use multi-family housing and predominantly residential mixed-use development in areas served by major transportation routes and facilities, and near major shopping facilities, including multifamily dwellings, such as apartments and condos. The Suburban Neighborhood High Density designation allows a density between 15 and 30 du/ac. The R-2B zone allows single-unit dwellings and has a maximum allowable density of up to 21 du/ac. The proposed project includes 48 single-family townhomes at a density of approximately 18 du/ac, which is within the allowable range defined by the land use designation within the General Plan and the R-2B zoning district. As a result, the proposed project would be considered consistent with the General Plan land use and zoning designations. The proposed project would be subject to the goals and policies pursuant to the land use designation of the site within the General Plan, as well as the standards set forth for the R-2B zone in the City's Planning and Development Code.

The project site is located in an urbanized portion of the community. Surrounding existing uses include a single-family residential subdivision to the north, across Main Avenue, and west, across Norwood Avenue; scattered rural residences to the south and east; and Norwood Junior High School to the southwest, across Norwood Avenue. Development of the site would alter the site from undeveloped land to single-family townhomes. However, the redevelopment would be consistent with surrounding single-family residential land uses and the planned development in the 2035 General Plan and the Planning and Development Code. Given that the project site is undeveloped and surrounded by residential uses, implementation of the project would not physically divide an established community.

Based on the above, the proposed project would not result in impacts related to land use.

Population and Housing

The proposed project would include the construction of a 48-unit single-family townhouse residential development in the North Sacramento Community Plan Area. Consequently, development would add to the population in the City. However, as previously mentioned, the proposed project is consistent with the General Plan land use and zoning designations for the site. As such, impacts related to population and housing associated with buildout of the project site would have been analyzed as part of the Master EIR analysis. As a result, the project would not be considered to induce population beyond what was previously analyzed in the Master EIR. Implementation of the proposed project would not displace any existing housing units or people. Construction or replacement of housing elsewhere would not be required for the project.

Agricultural Resources

The Master EIR discussed the potential impact of development under the 2035 General Plan on agricultural resources (see Master EIR, Chapter 4.1). In addition to evaluating the effect of the General Plan on sites within the City, the Master EIR noted that to the extent the Sacramento General Plan accommodates future growth within the City limits, the conversion of farmland outside the City limits is minimized (Master EIR, page 4.1-3). The Master EIR concluded that the impact of the General Plan on agricultural resources within the City was less than significant.

According to the California Department of Conservation Important Farmland Map, the project site is 100 percent Other Land, and generally surrounded by Urban and Built-Up Land.[1] As such, the project site does not contain soils designated as Important Farmland (i.e., Prime Farmland, Unique Farmland or Farmland of Sitewide Importance). The site is not zoned for agricultural uses and is not under a Williamson Act contract. In addition, the project site is not used for agricultural or timber-harvest operations. Therefore, the proposed project would not result in impacts related to agricultural resources.

Wildfire

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

[1] California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed January 2022.

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

ENVIRONMENTAL SETTING

The approximately 3.7-acre project site is currently undeveloped and has been previously graded and regularly disked. The site is bounded by Main Avenue to the north and Norwood Avenue to the west. Surrounding existing uses include a single-family residential subdivision to the north, across Main Avenue, and west, across Norwood Avenue; scattered rural residences to the south and east; and Norwood Junior High School to the southwest, across Norwood Avenue.

Public views of the project site include views from motorists, bicyclists, and pedestrians travelling on Main Avenue and Norwood Avenue.

Existing scenic resources in the City include major natural open space features such as the American River and Sacramento River, including associated parkways. In addition, the State Capitol is a scenic resource within the City defined by the Capitol View Protection Ordinance. The project site does not contain scenic resources or within an area designated as a scenic resource or vista. The California Department of Transportation (Caltrans) manages the State Scenic Highway System which provides guidance and assists local government agencies with the process to officially designate scenic highways. According to Caltrans, designated scenic highways are not located in proximity to the project site and the project site is not visible from any State-designated scenic highways.[2]

STANDARDS OF SIGNIFICANCE

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

- Substantially degrade the existing visual character of a site or its surroundings; or
- Create a new source of substantial light or glare that is substantially greater than typical urban sources and could cause sustained annoyance or hazard for nearby sensitive receptors.

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

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

[2] California Department of Transportation. *California Scenic Highway Mapping System, Sacramento County.* Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed March 2021.

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

Policies in the 2035 General Plan Environmental Resources Element were identified as mitigating potential effects of development that could occur under the 2035 General Plan. For example, Policy ER 7.1.1 calls for the City to avoid substantial adverse effects of new developments on views from public places to the Sacramento and American Rivers and the State Capitol; Policies ER 7.1.2 and ER 7.1.5 require new developments in the City to be designed to visually complement the natural environment when near the Sacramento and American Rivers and river crossings; and Policies ER 7.1.3 and ER 7.1.4 require the City to minimize obtrusive light sources and the use of reflective glass.

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

According to the Master EIR, the City of Sacramento is mostly built out, and a large amount of ambient light from urban uses already exists. New development under the Sacramento 2035 General Plan could add sources of light that are similar to the existing urban light sources from one of the following: exterior building lighting, new street lighting, parking lot lights, and headlights of vehicular traffic. Sensitive land uses would generally be residential uses, especially single- and multi-family residences. The nearest residential use to the project site would be the rural residences located directly east and south of the project site. Potential new sources of light associated with development and operation of the proposed project would be similar to the residential uses in the vicinity of the project site.

Because the City of Sacramento is mostly built-out with a level of ambient light that is typical of and consistent with the urban character of a large city and new development allowed under the 2035 General Plan would be subject to the General Plan policies, building codes, and (for larger projects) design review, the introduction of substantially greater intensity or dispersal of light would not occur. For example, Policy ER 7.1.3. Lighting requires that misdirected, excessive, or unnecessary outdoor lighting be minimized. In addition, Policy ER 7.1.4: Reflective Glass prohibits new development from resulting in any of the following:

(1) using reflective glass that exceeds 50 percent of any building surface and on the bottom three floors;
(2) using mirrored glass;
(3) using black glass that exceeds 25 percent of any surface of a building;
(4) using metal building materials that exceed 50 percent of any street-facing surface of a primarily residential building; and
(5) using exposed concrete that exceeds 50 percent of any building.

While the proposed project would introduce new sources of light and glare to the project site, the type and intensity of light and glare would be similar to that of the surrounding developments. In addition, the proposed project would be required to comply with the aforementioned General Plan policies, which would be ensured through the Site Plan and Design Review process. Through compliance with applicable General Plan policies, development of the site with the proposed project would not be expected to cause a public annoyance related to new sources of glare or create new sources of light that would be cast onto oncoming traffic or nearby residential uses. In addition, the proposed project would be consistent with what has been anticipated for the project site under the General Plan, and, thus, impacts related to light and glare associated with development of the site have been anticipated in the Master EIR. Furthermore, impacts related to aesthetics were analyzed as part of the Master EIR and were concluded to be less than significant, with compliance with all applicable General Plan goals and policies. The proposed project would comply with all applicable policies set forth in the General Plan pertaining to land use and the preservation of visual resources, as well as all applicable regulations set forth in the Sacramento City Code.

Based on the above, the proposed project would have ***no additional significant environmental effect*** beyond what was previously evaluated in the Master EIR.

Question C

New development associated with the 2035 General Plan could result in changes to important scenic resources, such as major natural open space features or the State Capitol (as defined by the Capitol View Protection Ordinance). The proposed project is not located near significant visual resources such as the Sacramento River, American River, or the State Capitol.

The existing visual character of the project vicinity is comprised of one- and two-story single-family residential units to the north and west. Rural residences are located to the east and south of the project site. As such, the residential nature of the proposed project would be visually compatible with the surrounding uses. In addition, the proposed project would be consistent with the land use and zoning designations for the site and compatible with the existing single-family residential development west and north of the site. Because the proposed project is consistent with the General Plan, impacts related to aesthetics have been analyzed and anticipated within the General Plan EIR. According to the General Plan EIR, with adherence to polices pursuant to aesthetics, buildout of the General Plan would not substantially alter the existing visual character.

General Plan Policy LU 2.7.2 provides that the City shall require Design Review that focuses on achieving appropriate form and function for new projects to promote creativity, innovation, and design quality. As such, City staff would conduct Site Plan and Design Review prior to implementation of the proposed project. As noted in Chapter 17.808 of the Sacramento City Code, the purpose of Site Plan and Design Review is to ensure that the physical aspects of development projects are consistent with the General Plan and any other applicable specific plans or design guidelines, that projects are high quality and compatible with surrounding development, among other considerations. Accordingly, Site Plan and Design Review for the proposed project would ensure that the proposed development would not result in a substantial degradation in the existing visual character of the project site or surrounding area.

Therefore, potential impacts to the visual character of the project site and its surroundings associated with development of the site with residential uses have been previously analyzed in the Master EIR, and the proposed project would have ***no additional significant environmental effect*** beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

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

Issues:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
2. AIR QUALITY Would the project: A) Result in construction emissions of NO_x above 85 pounds per day?			X
B) Result in operational emissions of NO_x or ROG above 65 pounds per day?			X
C) Violate any air quality standard or have a cumulatively considerable contribution to an existing or projected air quality violation?			X
D) Result in PM_{10} and $PM_{2.5}$ concentrations that exceed SAMQMD requirements?			X
E) Result in CO concentrations that exceed the 1-hour state ambient air quality standard (i.e., 20.0 ppm) or the 8-hour state ambient standard (i.e., 9.0 ppm)?			X
F) Result in exposure of sensitive receptors to substantial pollutant concentrations?		X	
G) Result in TAC exposures create a risk of 10 in 1 million for stationary sources, or substantially increase the risk of exposure to TACs from mobile sources?		X	

ENVIRONMENTAL SETTING

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

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

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

The warmer months in the SVAB (May through October) are characterized by stagnant morning air or light winds, and the Delta breeze that arrives in the evening out of the southwest. Usually, the evening breeze transports a portion of airborne pollutants to the north and out of the Sacramento Valley. During about half of the day from July to September, however, a phenomenon called the "Schultz Eddy" prevents this from occurring. Instead of allowing the prevailing wind patterns to move north carrying the pollutants out of the

valley, the Schultz Eddy causes the wind pattern to circle back south. This phenomenon exacerbates the pollution levels in the area and increases the likelihood of violating Federal or State standards. The Schultz Eddy normally dissipates around noon when the Delta breeze begins.

Criteria Air Pollutants

Concentrations of emissions from criteria air pollutants (the most prevalent air pollutants known to be harmful to human health) are used to indicate the quality of the ambient air. Criteria air pollutants include ozone, carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), respirable and fine particulate matter (PM_{10} and $PM_{2.5}$), and lead. The sources of criteria air pollutants and their respective acute and chronic health impacts are described in Table 1.

Existing Air Quality

The U.S. Environmental Protection Agency (EPA) has been charged with implementing national air quality programs. EPA's air quality mandates are drawn primarily from the federal Clean Air Act (CAA), which was enacted in 1970 and most recently amended by Congress in 1990. The CAA required EPA to establish the National Ambient Air Quality Standards (NAAQS) for the following criteria air pollutants: ozone, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and lead. CAA also requires each State to prepare a State implementation plan (SIP) for attaining and maintaining the NAAQS. The federal Clean Air Act Amendments of 1990 (CAAA) added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution. Individual SIPs are modified periodically to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies.

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

The SVAB is currently designated as nonattainment for the NAAQS 8-hour ozone standard and the CAAQS for both 1-hour and 8-hour ozone (O_3) standard. The SVAB is also currently designated as nonattainment for both NAAQS and CAAQS 24-hour PM_{10} standards. In addition, the SVAB is currently designated as nonattainment for the NAAQS 24-hour $PM_{2.5}$ standard. The air basin is designated as unclassified or in attainment for the remaining criteria air pollutants (SMAQMD 2019).

Toxic Air Contaminants

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

Table 1
Sources and Health Effects of Criteria Air Pollutants

Pollutant	Sources	Acute[1] Health Effects	Chronic[2] Health Effects
Ozone	Secondary pollutant resulting from reaction of ROG and NO_X in presence of sunlight. ROG emissions result from incomplete combustion and evaporation of chemical solvents and fuels; NO_X results from the combustion of fuels	Increased respiration and pulmonary resistance; cough, pain, shortness of breath, lung inflammation	Permeability of respiratory epithelia, possibility of permanent lung impairment
Carbon monoxide (CO)	Incomplete combustion of fuels; motor vehicle exhaust	Headache, dizziness, fatigue, nausea, vomiting, death	Permanent heart and brain damage
Nitrogen dioxide (NO_2)	Combustion devices; e.g., boilers, gas turbines, and mobile and stationary reciprocating internal combustion engines	Coughing, difficulty breathing, vomiting, headache, eye irritation, chemical pneumonitis or pulmonary edema; breathing abnormalities, cough, cyanosis, chest pain, rapid heartbeat, death	Chronic bronchitis, decreased lung function
Sulfur dioxide (SO_2)	Coal and oil combustion, steel mills, refineries, and pulp and paper mills	Irritation of upper respiratory tract, increased asthma symptoms	Insufficient evidence linking SO_2 exposure to chronic health impacts
Respirable particulate matter (PM_{10}), Fine particulate matter ($PM_{2.5}$)	Fugitive dust, soot, smoke, mobile and stationary sources, construction, fires and natural windblown dust, and formation in the Atmosphere by condensation and/or transformation of SO_2 and ROG	Breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular diseases, Premature death	Alterations to the immune system, carcinogenesis
Lead	Metal processing	Reproductive/developmental effects (fetuses and children)	Numerous effects including neurological, endocrine, and cardiovascular effects

Notes: NO_X = oxides of nitrogen; ROG = reactive organic gases.
1. "Acute" refers to effects of short-term exposures to criteria air pollutants, usually at fairly high concentrations.
2. "Chronic" refers to effects of long-term exposures to criteria air pollutants, usually at lower, ambient concentrations.

Source: EPA, 2018.

Sensitive Receptors

Sensitive receptors are generally considered to include those land uses where exposure to pollutants could result in health-related risks to sensitive individuals, such as children or the elderly. Residential dwellings, schools, hospitals, playgrounds, and similar facilities are of primary concern because of the presence of individuals particularly sensitive to pollutants and/or the potential for increased and prolonged exposure of individuals to pollutants. The closest sensitive receptors to the project site include the rural residences located immediately south and east of the project site, approximately 30 feet away, and the Norwood Junior High School located approximately 245 feet southwest of the project site.

STANDARDS OF SIGNIFICANCE

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

- Construction emissions of NO_X above 85 pounds per day;
- Operational emissions of NO_X or ROG above 65 pounds per day;
- Violation of any air quality standard or contribute substantially to an existing or projected air quality violation;
- Any increase in PM_{10} concentrations, unless all feasible Best Available Control Technology (BACT) and Best Management Practices (BMPs) have been applied, then increases above 80 pounds per day or 14.6 tons per year;
- CO concentrations that exceed the 1-hour State ambient air quality standard (i.e., 20.0 parts per million [ppm]) or the 8-hour State ambient standard (i.e., 9.0 ppm); or
- Exposure of sensitive receptors to substantial pollutant concentrations.

Ambient air quality standards have not been established for TACs. TAC exposure is deemed to be significant if:

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

It is noted that the foregoing standards of significance for criteria pollutant emissions and TACs are consistent with the thresholds of significance adopted by the SMAQMD. The remainder of this discussion refers to the standards as the SMAQMD thresholds of significance.

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

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

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

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

ANSWERS TO CHECKLIST QUESTIONS

Questions A through D

Implementation of the proposed project would contribute local emissions in the area during both construction and operations of the proposed project. In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants that the area is designated nonattainment, the SMAQMD has established recommended thresholds of significance, including mass emission thresholds for construction-related and operational ozone precursors, as the area is under nonattainment for ozone. The SMAQMD's recommended thresholds of significance for the ozone precursors reactive organic gases (ROG) and nitrous oxides (NO_X), particulate matter 10 microns in diameter or less (PM_{10}), and particulate matter 2.5 microns in diameter or less ($PM_{2.5}$), which are expressed in pounds per day (lbs/day), are presented in Table 2.

Table 2
SMAQMD Thresholds of Significance (lbs/day)

Pollutant	Construction Thresholds	Operational Thresholds
NO_X	85	65
ROG	-	65
PM_{10}	Zero (0). If all feasible BACT/BMPs are applied, then: 80 lbs/day and 14.6 tons/yr	Zero (0). If all feasible BACT/BMPs are applied, then: 80 lbs/day and 14.6 tons/yr
$PM_{2.5}$	Zero (0). If all feasible BACT/BMPs are applied, then: 82 lbs/day and 15 tons/yr	Zero (0). If all feasible BACT/BMPs are applied, then: 82 lbs/day and 15 tons/yr

Notes: BACT = Best Available Control Technologies; BMP = Best Management Practices.

Source: Sacramento Metropolitan Air Quality Management District. SMAQMD Thresholds of Significance Table. Available at: http://www.airquality.org/LandUseTransportation/Documents/CH2ThresholdsTable4-2020.pdf. Accessed April 2022.

Because construction equipment emits relatively low levels of ROG, and ROG emissions from other construction processes (e.g., asphalt paving, architectural coatings) are typically regulated by SMAQMD, SMAQMD has not adopted a construction emissions threshold for ROG. SMAQMD has, however, adopted a construction emissions threshold for NO_X, as shown in Table 2, above.

In order to determine whether the proposed project would result in criteria pollutant emissions in excess of the applicable thresholds of significance presented above, the proposed project's emissions have been estimated using the California Emissions Estimator Model (CalEEMod) version 2020.4.0 software – 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 trip generation rates based on the Institute of Transportation Engineers (ITE) Manual, vehicle mix, trip length, average speed, etc. However, where project-specific data is available, such data should be input into the model. Accordingly, the model was updated to reflect that the proposed townhomes would not include any fireplaces.

The results of the proposed project's emissions estimates were compared to the thresholds of significance above in order to determine the associated level of impact. All CalEEMod modeling results are included as Appendix A to this IS.

Construction Emissions

During construction of the proposed project, various types of equipment and vehicles would operate on the project site. Construction exhaust emissions would be generated from construction equipment, any earth-moving activities, construction workers' commute, and material hauling for the entire construction period.

These activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants.

According to the CalEEMod results, the proposed project is estimated to result in maximum daily construction emissions as shown in Table 3. As shown in the table, the proposed project's maximum unmitigated construction-related emissions would be below the applicable thresholds of significance. As noted previously, to apply the PM_{10} and $PM_{2.5}$ thresholds of significance, projects must implement all feasible SMAQMD BACTs and BMPs related to dust control. In the case of construction activities, projects are required to implement the SMAQMD's identified Basic Construction Emissions Control Practices (BCECPs), which are considered by the SMAQMD to be the applicable construction BMPs. The control of fugitive dust during construction is required by SMAQMD Rule 403, and enforced by SMAQMD staff. Therefore, the non-zero thresholds of significance for PM are applicable.

Table 3
Maximum Unmitigated Project Construction Emissions

Pollutant	Project Emissions (lbs/day)	SMAQMD Threshold of Significance (lbs/day)
NO_X	27.56	85
PM_{10}	21.06	80
$PM_{2.5}$	11.30	82

Source: CalEEMod, April 2022 (see Appendix A).

In addition, all projects under the jurisdiction of SMAQMD are required to comply with all applicable SMAQMD rules and regulations (a complete list of current rules is available at www.airquality.org/rules). Rules and regulations related to construction include, but not limited to, Rule 201 (General Permit Requirements), Rule 402 (Nuisance), Rule 403 (Fugitive Dust), Rule 404 (Particulate Matter), Rule 414 (Water Heaters, Boilers and Process Heaters Rated Less Than 1,000,000 British Thermal Units per Hour), Rule 417 (Wood Burning Appliances), Rule 442 (Architectural Coatings), Rule 453 (Cutback and Emulsified Asphalt Paving Materials), Rule 460 (Adhesives and Sealants), Rule 902 (Asbestos) and CCR requirements related to the registration of portable equipment and anti-idling. Compliance with SMAQMD rules and regulations and BCECP would ensure that construction emissions are minimized to the extent practicable, and would reduce emissions below the level presented in Table 3. Therefore, impacts related to the proposed project's construction emissions of criteria pollutants would be less than significant.

Operational Emissions

SMAQMD has developed screening criteria to aid in determining if emissions from operation of development projects would exceed the SMAQMD thresholds of significance presented in Table 2. The screening criteria provides a conservative indication of whether a development project could result in potentially significant air quality impacts. According to SMAQMD, if a project is below the screening level identified for the applicable land use type, emissions from the operation of the project would have a less-than-significant impact on air quality. The screening criterion for operational emissions associated with the Condo/Townhouse land use is 810 units for ozone precursors and 1,700 units for particulate matter.[3] The proposed project involves the development of up to 48 units, which would be below the operational screening criteria for both categories of criteria pollutants. Therefore, based on the SMAQMD's screening criteria, the proposed project's operational emissions would not be expected to exceed SMAQMD thresholds of significance.

Nonetheless, to confirm this conclusion, operational air quality emissions were estimated using CalEEMod, and are presented in Table 4.

[3] Sacramento Metropolitan Air Quality Management District. *SMAQMD Operational Screening Levels*. April 2018.

Table 4 Maximum Unmitigated Project Operational Emissions		
Pollutant	**Project Emissions (lbs/day)**	**SMAQMD Threshold of Significance (lbs/day)**
NO_X	2.58	65
ROG	1.63	65
PM_{10}	1.98	80
$PM_{2.5}$	0.57	82
Source: CalEEMod, April 2022 (see Appendix A).		

As shown in the table, the proposed project's maximum unmitigated operational emissions of criteria pollutants would be below the applicable thresholds of significance. It should be noted that the project would not involve installation or operation of any pieces of equipment that would require implementation of SMAQMD's BACTs; therefore, the project would be subject to SMAQMD's mass emissions thresholds for PM_{10} and $PM_{2.5}$. As a result, impacts related to operational emissions of criteria pollutants would be considered less than significant.

Cumulative Emissions

SMAQMD 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. As future attainment of AAQS is a function of successful implementation of SMAQMD's planning efforts, according to the SMAQMD Guide, by exceeding the SMAQMD's project-level thresholds for construction or operational emissions, a project could contribute to the region's nonattainment status for ozone and PM emissions and could be considered to conflict with or obstruct implementation of the SMAQMD's air quality planning efforts.

As discussed above and below, the proposed project would result in construction and operational emissions below all applicable SMAQMD thresholds of significance. Therefore, the proposed project would not be considered to contribute to the region's nonattainment status for ozone or PM emissions and would not conflict with or obstruct implementation of the SMAQMD's air quality planning efforts. Accordingly, the proposed project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation, and a less-than-significant impact would occur.

Conclusion

As discussed above, construction of the proposed project would result in emissions below the thresholds of significance. In addition, due to the project size, the project would be below the operational screening criteria developed by SMAQMD. Thus, the proposed project would not result in construction or operational emissions in excess of the applicable thresholds of significance. Because the proposed project would result in emissions below the applicable thresholds of significance during both construction and operations, the proposed project would not violate an AAQS, contribute substantially to an existing or projected air quality violation, or result in PM concentrations greater than the applicable thresholds. Therefore, the proposed project would have ***no additional significant environmental effect*** beyond what was previously evaluated in the Master EIR.

Question E

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Per the SMAQMD Guide, emissions of CO are generally of less concern than other criteria pollutants, as operational activities are not likely to generate substantial quantities of CO, and the SVAB has been in attainment for CO for multiple years.[4] The proposed project would not involve operational changes that could result in long-term generation of CO. The use of construction equipment at each site

[4] Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment, Chapter 4: Operational Criteria Air Pollutant and Precursor Emissions*. June 2020.

would result in limited generation of CO; however, the total amount of CO emitted by construction equipment would be minimal and would not have the potential to result in health risks to any nearby receptors. Consequently, the proposed project would have ***no additional significant environmental effects*** related to localized CO emissions beyond what was previously evaluated in the Master EIR.

Question F and G

The area surrounding the project site has already been developed. The closest sensitive receptors to the project site include the rural residences located immediately south and east of the project site, the closest being approximately 30 feet away. In addition, Norwood Junior High School is located approximately 245 feet southwest of the project site, across Norwood Avenue.

TAC Emissions

The CARB Handbook provides recommendations for siting new sensitive land uses near sources typically associated with significant levels of TAC emissions, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified 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 from TACs are a function of both the concentration of emissions and the duration of exposure.

Operational-related emissions of TACs are typically associated with stationary diesel engines or land uses that involve heavy diesel truck traffic or idling. The proposed project does not involve long-term operation of any stationary diesel engine or other major on-site stationary source of TACs. Residential uses, such as the proposed project, do not typically involve long-term operation of any stationary sources of TACs. Therefore, the proposed project would not expose any existing sensitive receptors to any new permanent or substantial TAC emissions during operations.

However, short-term, construction-related activities could result in the generation of TACs, primarily DPM, from on-road haul trucks and off-road equipment exhaust emissions. Although DPM emissions from on-road haul trucks would be widely dispersed throughout the project area, as haul trucks move goods and material to and from the site, exhaust from off-road equipment would primarily occur within the project site. Consequently, the operation of off-road equipment within the project site during project construction could result in exposure of the nearby students and residents to DPM.

To analyze potential health risks to nearby students and residents that could result from DPM emissions from off-road equipment at the project site, total DPM emissions from project construction were estimated. DPM is considered a subset of $PM_{2.5}$, thus, the CalEEMod estimated $PM_{2.5}$ emissions from exhaust during construction was conservatively assumed to represent all DPM emitted on-site. The CalEEMod estimated $PM_{2.5}$ exhaust emissions were then used to calculate the concentration of DPM at the maximally exposed sensitive receptor near the project site. DPM concentrations resulting from project implementation were estimated using the American Meteorological Society/Environmental Protection Agency (AMS/EPA) Regulatory Model (AERMOD). The results of AERMOD are presented Figure 5. As presented therein, the maximally exposed receptor, depicted by a white “X,” is located southeast of the project site.

The associated cancer risk and non-cancer hazard index were calculated using the CARB’s Hotspot Analysis Reporting Program Version 2 (HARP 2) Risk Assessment Standalone Tool (RAST), which calculates the cancer and non-cancer health impacts using the risk assessment guidelines of the 2015 Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for Preparation of Health Risk Assessments.[5] The modeling was performed in accordance with the USEPA’s User’s Guide for the AERMOD[6] and the 2015 OEHHA Guidance Manual.

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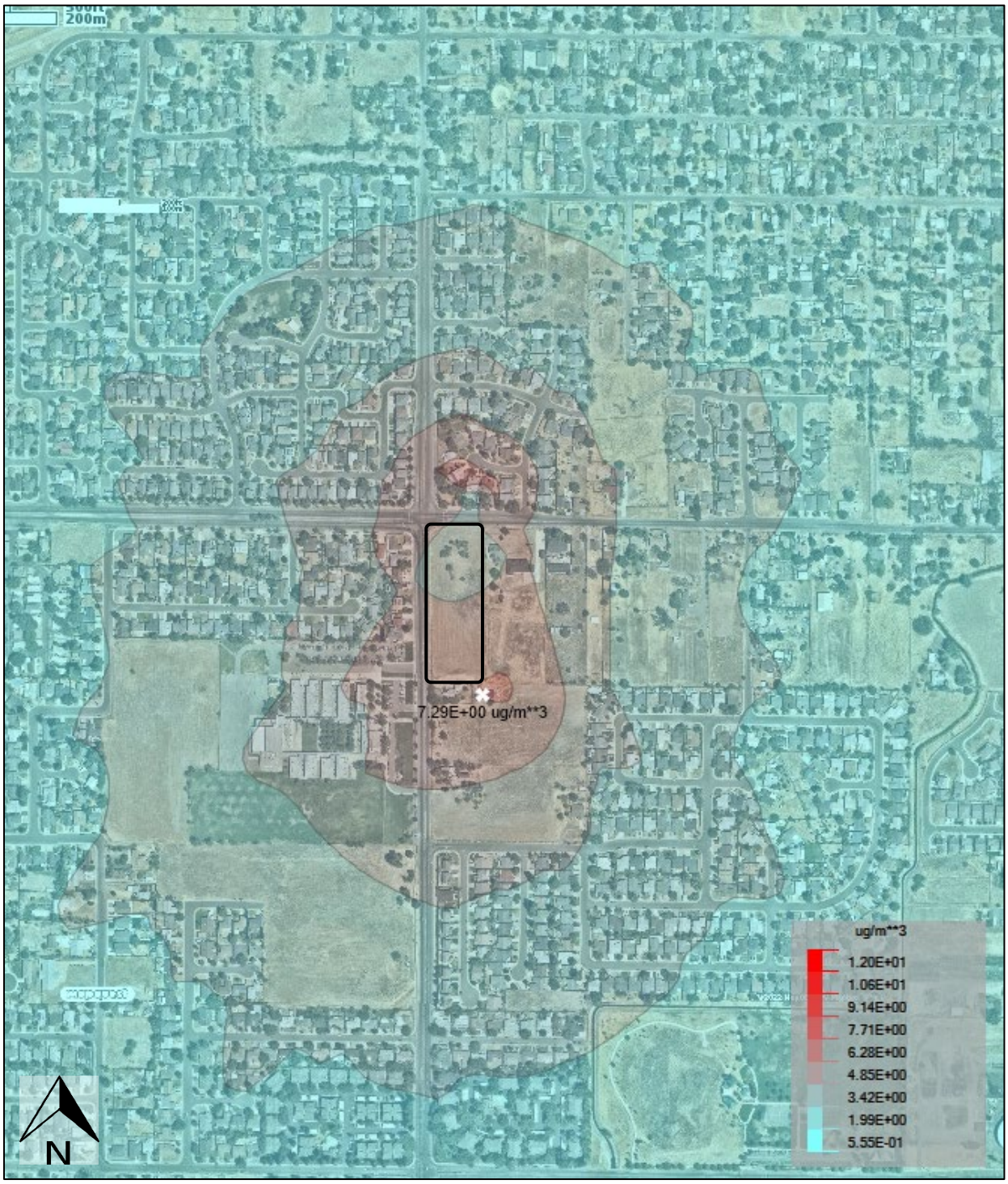
[5] Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments* [pg. 8-18]. February 2015.

[6] U.S. Environmental Protection Agency. *User’s Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.

Figure 5
AERMOD Results



Source: AERMOD, April 2022 (see Appendix A).

Based on the foregoing methodology, the cancer risk and non-cancer hazard indices were estimated and are presented in Table 5.

Table 5
Maximum Unmitigated Cancer Risk and Hazard Index Associated with Construction DPM

	Cancer Risk (per million persons)	Acute Hazard Index	Chronic Hazard Index
Construction DPM Health Risks	32.84	0.00	0.04
Thresholds of Significance	10	1.0	1.0
Exceed Thresholds?	**YES**	**NO**	**NO**

Source: AERMOD and HARP 2 RAST, April 2022 (see Appendix A).

As shown in Table 5, construction of the proposed project would not result in acute or chronic hazards in excess of SMAQMD's standards. However, project construction could have the potential to result in cancer risks in excess of SMAQMD's 10 cases per million threshold. Thus, construction of the proposed project could result in exposure of nearby receptors to substantial pollutant concentrations.

Conclusion

Based on the above, the proposed project would not cause or be exposed to substantial concentrations of localized CO. However, construction activities associated with implementation of the proposed project would generate DPM concentrations that could result in health risks that exceed the SMAQMD's thresholds of significance. Therefore, exposure of sensitive receptors to substantial pollutant concentrations could occur as a result of the proposed project, and impacts would be potentially significant. With implementation of Mitigation Measure 2-1, the ***effect can be mitigated to less than significant***.

MITIGATION MEASURES

The most effective way to reduce construction-related diesel PM emissions is by improving the engine tier/engine efficiency of construction equipment. Off-road diesel engines that are used in construction equipment fall into efficiency tiers, with the most efficient being the Tier 4 emission standards. Engine Tiers 3 through 1 are regressively less efficient. Based on modeling conducted, as demonstrated in Table 6, use of higher tier construction equipment for all construction activities would ensure that diesel PM emissions from construction equipment do not result in increased health risks to nearby receptors in excess of SMAQMD's standards. Consequently, implementation of the following mitigation measure would reduce impacts related to Air Quality to a *less-than-significant* level.

Table 6
Maximum Mitigated Cancer Risk and Hazard Index Associated with Project Construction DPM

	Cancer Risk (per million persons)	Acute Hazard Index	Chronic Hazard Index
Construction DPM Health Risks	9.97	0.00	0.01
Thresholds of Significance	10	1.0	1.0
Exceed Thresholds?	**NO**	**NO**	**NO**

Source: AERMOD and HARP 2 RAST, April 2022 (see Appendix A).

2-1 *Prior to the initiation of ground disturbance, the project applicant shall show on the plans via notation that the contractor shall ensure that the heavy-duty off-road vehicles (50 horsepower or more) to be used in the construction project, including owned, leased, and subcontractor vehicles, shall not generate $PM_{2.5}$ emissions in excess of 0.0266 tons $PM_{2.5}$ per year. The $PM_{2.5}$ reduction shall be achieved by requiring a combination of engine Tier 3 or Tier 4 off-road construction equipment or the use of hybrid, electric, or alternatively fueled equipment.*

In addition, all off-road equipment working at the construction site must be maintained in proper working condition according to manufacturer's specifications.

Idling shall be limited to five minutes or less in accordance with the Off-Road Diesel Fueled Fleet Regulation as required by CARB. Portable equipment over 50 horsepower must have either a valid District Permit to Operate (PTO) or a valid statewide Portable Equipment Registration Program (PERP) placard and sticker issued by CARB.

The aforementioned requirements shall be noted on grading plans and submitted for review and approval by the City of Sacramento Community Development Department.

FINDINGS

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

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

ENVIRONMENTAL SETTING

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

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

A Biological Resources Assessment (BRA) and Aquatic Resources Delineation were prepared by Salix Consulting Inc. for the proposed project.[7,8]

A search of the California Natural Diversity Database (CNDDB) was performed for the project site quadrangle (Rio Linda) as well as the surrounding quadrangles (i.e., Citrus Heights, Sacramento East, and Taylor Monument, Pleasant Grove, Roseville, and Sacramento West) to determine which special-status plant and wildlife species are known to occur within the region. Ten potentially occurring special-status plant species and 27 potentially occurring special-status wildlife species were identified in the queries; however, only five of the plant species and 17 of the wildlife species were identified as occurring within a five-mile radius of the project site. Field surveys were also conducted on April 22, 2021 and May 1, 2021, to further determine the presence of special-status plant and wildlife species within the project site and off-site roadway improvements area. In addition, California Tree and Landscape Consulting, Inc. conducted a tree

[7] Salix Consulting Inc. *Biological Resources Assessment for the Norwood Avenue Townhomes Study Area.* August 2021.

[8] Salix Consulting Inc. *Aquatic Resources Delineation for the Norwood Avenue Townhomes Study Area.* August 2021.

survey and prepared a Pre-Development Report and Tree Inventory for the project site.[9] The project-specific setting related to biological resources described below is based upon such reports.

Vegetation

The project site is comprised primarily of ruderal annual grassland that has been disturbed from regular disking. A grove of trees and shrubs occurs in the northern area and includes cottonwood, valley oak, northern California black walnut, plum, fruitless mulberry, fig, and a dense clump of giant reed. Of the 10 potentially-occurring special-status plant species identified in the CNDDB query, five were identified as occurring within or near a five-mile radius of the project site, but none were determined to have any potential for occurring on-site due to the absence of suitable aquatic habitats (such a marshes or vernal pools) or suitable substrates (such as alkaline soils).

Wildlife

Due to the disturbed nature of the project site, the potential for a diversified amount of wildlife is anticipated to be very low; however, several trees on and in the immediate vicinity of the project site could potentially provide nesting habitat for bird species and other raptors. Common urban wildlife species, such as killdeer, rock dove, ground squirrel, and black-tailed jackrabbit, utilize the site. Red-tailed hawk, turkey vulture, and American crow were observed flying over the site. The sparse tree and shrub area provides limited habitat and shelter for wildlife in the urban setting surrounding the project area. Large mammals such as coyote may pass through the site, but denning opportunities would not occur. Most of the species that would utilize the area would be small mammals such as field mice and squirrels.

Of the 27 animal species identified from the CNDDB query, 17 were identified as occurring within or near the five-mile radius of the project site. However, due to the absence of suitable aquatic and/or nesting habitat or host plants, the only special-status species determined to have any potential to occur on the project site is the burrowing owl.

Trees

Chapter 12.56, Tree Planting, Maintenance, and Conservation, of the Sacramento City Code establishes guidelines for the conversation, protection, removal, and replacement of both City trees and private protected trees. Per Section 12.56.020, a private protected tree meets at least one of the following criteria:

A. A tree that is designated by City Council resolution to have special historical value, special environmental value, or significant community benefit, and is located on private property;
B. Any native Valley Oak (*Quercus lobata*), Blue Oak (*Quercus douglasii*), Interior Live Oak (*Quercus wislizenii)*, Coast Live Oak (*Quercus agrifolia*), California Buckeye (*Aesculus californica*), or California Sycamore (*Platanus racemosa*), that has a diameter at standard height (DSH) of 12 inches or more, and is located on private property;
C. A tree that has a DSH of 24 inches or more located on private property that:
    a. Is an undeveloped lot; or
    b. Does not include any single unit or duplex dwellings; or
D. A tree that has a DSH of 32 inches or more located on private property that includes any single unit or duplex dwellings.

When circumstances do not allow for retention of trees, permits are required to remove City trees or private protected trees that are within the City's jurisdiction. In addition, City Code Section 12.56.050, Tree Permits, states that no person shall perform regulated work without a tree permit. The Tree Permit application requires a statement detailing the nature and necessity for the proposed regulated work and the location of the proposed work for evaluation and approval by the City Council.

[9] California Tree and Landscape Consulting, Inc. *Pre-Development Report and Tree Inventory.* April 2021.

As part of the Pre-Development Report and Tree Inventory, California Tree and Landscape Consulting, Inc. conducted a site survey on March 31, 2021 to evaluate the 14 trees on-site. According to California Tree and Landscape Consulting, Inc, all 14 of the surveyed trees are proposed for removal to facilitate implementation of the proposed project, and four of the trees are considered private protected under City Code Chapter 12.56 (see Table 1 – Tree Inventory of the Arborist Report [Appendix B]).

Jurisdictional Waters

The U.S. Army Corps of Engineers (USACE) has regulatory authority of "waters of the United States," which include wetlands, pursuant to Section 404 of the Clean Water Act (CWA). Waters of the U.S. includes navigable waters, interstate waters, and all other waters where the use, degradation, or destruction of the waters could affect interstate or foreign commerce, tributaries to any of these waters, and wetlands that meet any of these criteria or that are adjacent to any of these waters or their tributaries. Four seasonal wetland basins totaling 0.026-acre are mapped on the project site (see Figure 6). The shallow basins behave as marginal wetlands, and support facultative grasses as well as an algal mat.

STANDARDS OF SIGNIFICANCE

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

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

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

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

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

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

Policies in the 2035 General Plan were identified as mitigating the effects of development that could occur under the provisions of the 2035 General Plan. Policy ER 2.1.5 calls for the City to preserve the ecological integrity of creek corridors and other riparian resources; Policy ER 2.1.10 requires the City to consider the potential impact on sensitive plants for each project and to require pre-construction surveys when appropriate; and Policy ER 2.1.11 requires the City to coordinate its actions with those of the California Department Fish and Wildlife, U.S. Fish and Wildlife Service, and other agencies in the protection of resources.

Figure 6
Aquatic Resources Delineation Map

Aquatic Resources

Seasonal Wetland	Acreage
SW-1	0.007
SW-2	0.005
SW-3	0.006
SW-4	0.009
Subtotal:	**0.026**

Total 0.026 Acre

Prepared By:
Salix consulting, inc.

Prepared For:
Norwood North LLC
7225 26th Street
Rio Linda, CA 95673

DELINEATED BY: J. Glazner April-May 2021
DRAWN BY: H. Gallant
COORDINATE SYSTEM: NAD83 State Plane II USFT
IMAGERY: Baker-Williams Engineering Group

Study Area (±3.13 acres)
Seasonal Wetlands (±0.03 acre)
Upland Data Point
Wetland Data Point

Figure 5

AQUATIC RESOURCES DELINEATION MAP

Norwood Townhomes

Sacramento County, CA

July 19, 2021

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

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

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

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

ANSWERS TO CHECKLIST QUESTIONS

Question A

The use, handling, and storage of hazardous materials is regulated by both the Federal Occupational Safety and Health Administration (Fed/OSHA) and the California Occupational Safety and Health Administration (Cal/OSHA). Cal/OSHA is responsible for developing and enforcing workplace safety regulations. At the local level, the Sacramento County Environmental Management Department regulates hazardous materials within Sacramento County, including chemical storage containers, businesses that use hazardous materials, and hazardous waste management.

The use and storage of hazardous materials is regulated by Section 8.64 of the Sacramento City Code. Section 8.64.040 establishes regulation related to the designation of hazardous materials and requires that a hazardous material disclosure form be submitted within 15 days by any person using or handling a hazardous material. In addition, the routine transport, use, and disposal of hazardous materials are regulated by existing federal, State, and local regulations. For instance, the Sacramento County Environmental Management Department requires businesses handling sufficient quantities of hazardous materials to submit a Hazardous Materials Business Plan and obtain permitting.

Furthermore, residential uses are not typically associated with the routine transport, use, or disposal of hazardous materials, or present a reasonably foreseeable release of hazardous materials. Any hazardous materials associated with the residential uses would consist primarily of typical household cleaning products

and fertilizers, which would be utilized in small quantities and in accordance with label instructions, which are based on federal and/or State health and safety regulations. Therefore, the proposed project would have ***no additional significant environmental effect*** related to creating a potential health significant hazard to plant or animal populations in the area beyond what was previously evaluated in the Master EIR.

Question B

As discussed previously, as part of the BRA prepared for this IS, a search of the CNDDB was performed for the project site quadrangle (Rio Linda) as well as the six surrounding quadrangles (Pleasant Grove, Roseville, Taylor Monument, Citrus Heights, Sacramento East, and Sacramento West) to determine which special-status plant and wildlife species are known to occur within the region. The results of the CNDDB query are discussed below**.**

Special-Status Plant Species

Although the project site is currently undeveloped and consists largely of ruderal grassland, the site is regularly disked and maintained. As a result, due to the lack of sufficient on-site habitat and the disturbed nature of the site, special-status plants are not likely to occur on-site. Of the 10 potentially-occurring special-status plant species identified in the CNDDB query, five were identified as occurring within or near a five-mile radius of the study area, but none were determined to have any potential for occurring on-site or in the off-site improvement areas due to the absence of suitable aquatic habitats (such as marshes or vernal pools) or suitable substrates (such as alkaline soils).

Special-Status Wildlife Species

Of the special-status wildlife species identified as having the potential to exist in the project area, most were eliminated from further consideration due to habitat requirements (i.e., aquatic, grassland, and/or coastal habitats) which are not present at the project site or the off-site improvement areas, which are paved roadways. As noted above, the site is disturbed through regular disking. In addition, the project site is located within an urban area and is surrounded by existing development.

Of the 17 animal species identified by CNDDB as occurring within or near a five-mile radius of project site, one bird, the burrowing owl, was determined to have marginal potential to occur on-site due to the presence of limited nesting habitats. The burrowing owl typically occupies abandoned burrows created by California ground squirrels. The field survey indicated that due to the regular disking that occurs on the project site, relatively little ground squirrel activity occurs on-site. Therefore, burrowing owls have little opportunity to find nesting habitats on the project site. Although the potential for burrowing owls to occur on-site is unlikely, a potentially significant impact could occur if burrowing owls are present on-site during construction activities.

While the project site does not contain on-site trees that provide suitable nesting habitat for nesting raptors, trees within the project site and vicinity have the potential to provide nesting habitat for migratory birds protected under the CDFG Code Section 3503 and the federal Migratory Bird Treaty Act (MBTA) of 1918 (Title 16 of U.S. Code [U.S.C.] Sections 703-711). Special-status birds have the potential to nest in the aforementioned trees, as well as trees in the vicinity of the project site, and could be disturbed by construction activities should construction occur during the bird nesting season. As such, construction of the project could affect suitable nesting habitat, and a potentially significant impact to nesting and migratory birds could occur.

Tree Removal

According to the Pre-Development Report and Tree Inventory, 14 total trees are proposed for removal to facilitate implementation of the proposed project, including both street trees and private protected trees. As noted above, four private protected trees would require removal as part of the proposed project, including trees such as northern California black walnut and valley oak. Without the implementation of the

recommendations included in the Pre-Development Report and Tree Inventory, a potentially significant impact could occur related to the removal and/or damage to protected trees.

Conclusion

Based on the above, development of the proposed project could result in a potentially significant impact to the burrowing owl and to species protected by the Migratory Bird Treaty Act. In addition, a potentially significant impact could occur related to the removal of four protected trees during construction. However, with the implementation of Mitigation Measures 3-1 through 3-4, the ***effect can be mitigated to less than significant***.

Question C

Currently, the project site is undeveloped. Residential development surrounds the project site on all sides. Although four seasonal wetlands were identified on the project site, none were determined to be capable of providing a habitat for any protected species. According to the National Wetlands Inventory, the area 0.35-miles east of the project site is identified as riverine habitat associated with the Magpie Creek.[10] However, implementation of the project would not impinge upon the riparian habitat associated with the Magpie Creek.

Although the project site does not contain existing water body features such as rivers, creeks, or nationally significant natural ditches, the proposed project could result in a substantially adverse effect on sensitive protected wetlands and/or CDFW regulated waters and vegetation. However, with implementation of Mitigation Measure 3-5, the ***effect can be mitigated to less than significant***.

MITIGATION MEASURES

Implementation of Mitigation Measures 3-1 through 3-6 below would reduce the impacts identified above related to the burrowing owl and private protected trees per the City's Tree Ordinance to a *less-than-significant* level.

Burrowing Owl

3-1 *A preconstruction survey for burrowing owls should be conducted according to the California Burrowing Owl Consortium's 1993 Burrowing Owl Survey Protocol and Mitigation Guidelines, and shall include all potential burrowing owl habitat within 500 feet of the project. Portions of the survey area located on private land shall be surveyed from all publicly accessible areas. A written summary of the survey results shall be submitted to the City of Sacramento Community Development Department before any construction permits are issued. If burrowing owl are not detected during pre-construction surveys, further mitigation is not required. If active burrowing owl burrows are found, the following measures shall be implemented at the project site:*

- *During the non-breeding season (September 1 through January 31), the biologist shall establish a 160-foot environmental sensitive area (ESA) around the burrow. During the breeding season (February 1 through August 31), the biologist shall establish a 300-foot ESA around the burrow in consultation with CDFW.*
- *The size of the ESA may be reduced if the biologist monitors the construction activities and determines that disturbance to the burrowing owl is not occurring. Reduction of ESA size depends on the location of the burrow relative to the proposed disturbance area, project activities during the time the burrow is active, and other project-specific factors.*

[10] National Wetlands Inventory. *Wetlands Mapper.* Available at: https://www.fws.gov/wetlands/data/mapper.html. Accessed January 2022.

- *If the burrow is located within the construction zone and it is during the non-breeding season, the burrowing owl shall be passively excluded from the burrow using one-way doors, as described in the Exclusion Plan of Appendix E of the CDFW's 2012 Staff Report on Burrowing Owl Mitigation.*
- *If the burrow is located within the construction zone and it is during the breeding season, the burrow owl shall only be passively excluded if it has been confirmed that the owl has not begun egg laying and incubation, the clutch was unsuccessful, or juveniles from the occupied burrows are foraging independently and are capable of independent survival.*

Nesting Migratory Birds

3-2 *If tree removal or other ground disturbance takes place during the breeding/nesting season (February 1 through August 31), disturbance of nesting activities could occur. To avoid impacts to nesting birds, disturbance shall occur outside of the typical nesting season. If disturbance occurs at any time during the nesting season, a pre-construction survey shall be conducted by a qualified biologist within two weeks prior to initiation of proposed development activities. If active nests are found during the pre-construction survey, buffer zones shall be established around any identified nests, and the nests shall be monitored by a qualified biologist until the offspring have fledged. If the nesting bird is a bird of prey, consultation with the City and CDFW may be warranted. A written summary of the survey results shall be submitted to the City of Sacramento Community Development Department before any construction permits are issued.*

Protected Trees

3-3 *Prior to issuance of Grading Permits, the plans shall note tree protection requirements stated within the Arborist Report prepared for the project. The measures shall be reflected on the grading plans, subject to review and approval by the City's Community Development Department.*

3-4 *Prior to issuance of Grading Permits, the project applicant shall comply with tree permit requirements in effect at the time of project approval for removal, pruning, or soil disturbance within the canopy dripline of a private protected tree. The measures shall be reflected on the grading plans, subject to review and approval by the City's Community Development Department.*

Wetlands

3-5 *Prior to construction, the project applicant shall submit the Aquatic Resources Delineation Report prepared by Salix Consulting, Inc. in August 2021 to the USACE and RWQCB to determine if the seasonal wetlands would be regulated by the USACE under Section 404 of the Clean Water Act and/or by the RWQCB under Section 401 of the Clean Water Act or the Porter-Cologne Water Quality Control Act. If the RWQCB and/or the USACE determines that the wetlands and non-wetland waters are not regulated under State and federal laws, further mitigation is not required.*

If the RWQCB and/or the USACE determines that the wetlands and non-wetland waters are regulated under State and federal laws, the project applicant shall obtain the required permits and implement any required compensation for the loss of waters of the U.S. and/or waters of the State. The actual mitigation ratio and associated credit acreage shall be based on USACE and RWQCB permitting, which will dictate the ultimate compensation for permanent or temporary impacts to waters of the U.S./waters of the State. RWQCB and USACE determinations, as well as proof of required permits, if any, shall be submitted to the City's Community Development Department for review.

FINDINGS

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

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

ENVIRONMENTAL SETTING

The City of Sacramento and the surrounding area are known to have been occupied by Native American groups for thousands of years prior to settlement by non-Native peoples. Archaeological materials, including human burials, have been found throughout the City, some in deeply buried contexts. One of the tools used to identify the potential for cultural resources to be present in the project area is the 2035 General Plan Background Report. Generalized areas of high sensitivity for cultural resources are located within close proximity to the Sacramento and American rivers and moderate sensitivity was identified near other watercourses. The proposed project site is not adjacent to these high or moderate sensitivity units shown in the 2035 General Plan Background Report. The 2035 General Plan land use diagram designates a wide swath of land along the American River as Parks, which limits development and impacts on sensitive cultural resources. High sensitivity areas may be found in other areas related to the ancient flows of the rivers, with differing meanders than found today. Recent discoveries during infill construction in downtown Sacramento have shown that the downtown area is highly sensitive for both historic period archaeological- and pre-contact indigenous resources. Native American burials and artifacts were found in 2005 during construction of the New City Hall and historic period archaeological resources are abundant downtown due to the evolving development of the area and, in part, to the raising of the surface street level in the 1860s and 1870s, which created basements out of the first floors of many buildings.

The project site was previously developed with a single-family residence from 1937 to 1984, but has been undeveloped since 1984. The project site contains clusters of trees, has been previously graded, and appears to experience regular disking.

STANDARDS OF SIGNIFICANCE

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

- Cause a substantial change in the significance of a historical or archaeological resource as defined in CEQA Guidelines Section 15064.5; or
- Directly or indirectly destroy a unique paleontological resource;
- A substantial adverse change in the significance of such resources; or
- Disturb any human remains.

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

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

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

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

ANSWERS TO CHECKLIST QUESTIONS

Questions A through C

The approximately 3.7-acre project site is undeveloped. The proposed project would include a single-family residential development consisting of 48 townhome units. The proposed project would also include new access points, internal roadways, improvements along the project frontage, and off-site improvements to adjacent roadways.

To identify any known cultural resources, a records search of the California Historic Resources System (CHRIS) was performed by the North Central Information Center (NCIC) for cultural resource site records and survey reports within the project area. According to the CHRIS search, the site has a low potential for the discovery of prehistoric-period cultural resources. Additionally, a search of the Sacred Lands File maintained by the Native American Heritage Commission (NAHC) was conducted and returned negative results for the presence of known Native American sacred sites in the immediate project vicinity.

Given the disturbed nature of the project site, and the built-out nature of the surrounding area, surface cultural resources are not likely to be found on-site or within the off-site improvement areas during grading and construction activities. However, due to the predominant historic theme of the region as a whole, which includes thousands of years of occupation by Native American groups prior to non-Native peoples settling in the region, the possibility exists that previously unknown resources could be encountered during ground-disturbing activities associated with development of the project. Therefore, the proposed project would have a potentially significant impact related to damaging or destroying prehistoric cultural resources. However, with implementation of Mitigation Measure 4-1, the ***effect can be mitigated to less than significant***.

MITIGATION MEASURES

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

4-1 ***In the Event that Cultural Resources are Discovered During Construction, Implement Procedures to Evaluate Cultural Resources and Implement Avoidance and Minimization Measures to Avoid Significant Impact.***

If archaeological resources, or paleontological resources, are encountered in the project area during construction, the following performance standards shall be met prior to continuance of construction and associated activities that may result in damage to or destruction of cultural resources:

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

If a cultural resource is determined to be eligible for listing on the CRHR, the City will avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. If the City determines that the project may cause a significant impact to a cultural

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

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

Avoidance and preservation in place is the preferred manner of mitigating impacts to archaeological resources and paleontological resources will be accomplished, if feasible, by several alternative means, including:

- *Planning construction to avoid cultural resources, archaeological sites and/ or other resources; incorporating sites within parks, green-space or other open space; covering archaeological sites; deeding a site to a permanent conservation easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity.*
- *The construction contractor(s) will install and maintain protective fencing throughout construction to avoid the site during all remaining phases of construction. The area will be demarcated as an "Environmentally Sensitive Area".*

To implement these avoidance and minimization standards, the following procedures shall be followed in the event of the discovery of an archaeological or paleontological resource:

- *At the developer's expense, the City shall coordinate the investigation of the find with a qualified (meeting the Secretary of the Interior's Qualification Standards for Archaeology) archaeologist approved by the City. As part of the site investigation and resource assessment, the City and the archaeologist shall assess the significance of the find, make recommendations for further evaluation and treatment as necessary and provide proper management recommendations should potential impacts to the resources be determined by the City to be significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to the City representative by the qualified archaeologist. These recommendations will be documented in the project record.*
- *The City shall consider management recommendations for tribal cultural resources, including Native American archaeological resources, that are deemed appropriate, including resource avoidance or, where avoidance is infeasible in light of project design or layout or is unnecessary to avoid significant effects, preservation in place or other measures. The contractor shall implement any*

measures deemed by the City to be necessary and feasible to avoid or minimize significant impacts to the cultural resources.

FINDINGS

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

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

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

Energy demand related to the proposed project would include energy directly consumed for space heating and cooling and proposed electric facilities and lighting. Indirect energy consumption would be associated with the generation of electricity at power plants. Transportation-related energy consumption includes the use of fuels and electricity to power cars, trucks, and public transportation. Energy would also be consumed by equipment and vehicles used during project construction and routine maintenance activities.

Energy Policy and Conservation Act, and CAFE Standards

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

Energy Policy Act of 1992 and 2005

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

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 is designed to improve vehicle fuel economy and help reduce U.S. dependence on oil. It represents a major step forward in expanding the production of renewable fuels, reducing dependence on oil, and confronting global climate change. The Energy Independence and

Security Act of 2007 increases the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022, which represents a nearly five-fold increase over previous levels; and reduces U.S. demand for oil by setting a national fuel economy standard of 35 miles per gallon by 2020—an increase in fuel economy standards of 40 percent.

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

State of California Energy Efficiency Action Plan

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

- Identifying funding sources that support energy efficiency programs;
- Identifying opportunities to improve energy efficiency through data analysis;
- Using program designs as a way to encourage increased energy efficiency on the consumer end;
- Improving energy efficiency through workforce education and training; and
- Supporting rulemaking and programs that incorporate energy demand flexibility and building decarbonization.

California Green Building Standards Code

The 2019 California Green Building Standards Code, otherwise known as the CALGreen Code (CCR Title 24, Part 11) is a portion of the CBSC, which became effective on January 1, 2020. 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 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 code apply to the planning, design, operation, construction, use, and occupancy of every newly constructed building or structure throughout California. Requirements of the CALGreen Code include, but are not limited to, the following measures:

- Compliance with relevant regulations related to future installation of electric vehicle charging infrastructure in residential and non-residential structures;
- Indoor water use consumption is reduced through the establishment of maximum fixture water use rates;
- Outdoor landscaping must comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), or a local ordinance, whichever is more stringent, to reduce outdoor water use;
- Diversion of 65 percent of construction and demolition waste from landfills; and
- Mandatory use of low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board.

California Energy Code

The energy consumption of new residential and nonresidential buildings in California is regulated by the state's Title 24, Part 6, Building Energy Efficiency Standards (California Energy Code). The California Energy Code was established by the California Energy Commission (CEC) in 1978 in response to a legislative mandate to create uniform building codes to reduce California's energy consumption and provide energy efficiency standards for residential and non-residential buildings. CEC updates the California Energy

Code every three years with more stringent design requirements for reduced energy consumption, which results in the generation of fewer GHG emissions.

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

Transportation-Related Regulations

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

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

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

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

On August 2, 2018, the National Highway Traffic Safety Administration (NHTSA) and EPA proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule). Part One of the SAFE Rule revokes a waiver granted by EPA to the State of California under Section 209 of the CAA to enforce more stringent emission standards for motor vehicles than those required by EPA for the explicit purpose of GHG emission reduction, and indirectly, criteria air pollutant and ozone precursor emission reduction. On March 31, 2020, Part Two of the SAFE Rule was published and would amend existing CAFE and tailpipe CO_2 emissions standards for passenger cars and light trucks and establish new standards covering model years 2021 through 2026.

GHG Reduction Regulations

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

Renewable Energy Regulations

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

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

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

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

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

The Master EIR concluded that implementation of State regulations, coordination with energy providers, and implementation of General Plan policies would reduce the potential impacts from construction of new energy production or transmission facilities to a less-than-significant level.

Sacramento Climate Action Plan

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

STANDARDS OF SIGNIFICANCE

For the purposes of this IS/MND, an impact is considered significant if the proposed project would:

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

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

Neither federal or State law nor the State CEQA Guidelines establish thresholds that define when energy consumption is considered wasteful, inefficient and unnecessary. Compliance with CCR Title 24 Energy Efficiency Standards would result in energy-efficient buildings. However, compliance with building codes does not adequately address all potential energy impacts during construction and operation. For example, energy would be required to transport people and goods to and from the project site. Energy use is discussed by anticipated use type below.

Construction

Construction of the proposed project would involve 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 sites where energy supply cannot be met via a hookup to the existing electricity grid.

Even during the most intense period of construction, due to the different types of construction activities (e.g., site preparation, grading, building construction), only portions of the project site and off-site improvement areas would be disturbed at a time, with operation of construction equipment occurring at different locations on the project site, rather than a single location. In addition, all construction equipment and operation thereof would be regulated per the CARB 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. The In-Use Off-Road Diesel Vehicle Regulation would subsequently help to improve fuel efficiency and reduce GHG emissions. Technological innovations and more stringent standards are being researched, such as multi-function equipment, hybrid equipment, or other design changes, which could help to reduce demand on oil and emissions associated with construction.

The CARB has recently prepared the 2017 Climate Change Scoping Plan Update (2017 Scoping Plan), 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 CARB Diesel Vehicle Regulation described above, with which the 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, construction activities 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

The proposed project would be subject to all relevant provisions of the most recent update of the CBSC, including the Building Energy Efficiency Standards. Adherence to the most recent CALGreen Code, the Building Energy Efficiency Standards, and all applicable regulations included within the City's CAP 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.

Required compliance with the CBSC would ensure that the building energy use associated with the project would not be wasteful, inefficient, or unnecessary. In addition, electricity supplied to the project by SMUD would comply with the State's Renewables Portfolio Standard, which requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and to 60 percent by 2030. Pursuant to the 2019 CBSC, the proposed project would be required to incorporate rooftop solar panels to meet the electricity demands of future residents. As a result, a portion of the electricity consumed during project operations would be generated from renewable sources. It is noted that at least 50 percent of the proposed parking area would be shaded by landscaping trees, which would reduce heat island effects on the project and discourage energy use associated with air conditioning systems.

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 discussed in Section 13, Transportation, of this IS, the VMT associated with development of the proposed project is anticipated to be less than the average household VMT per capita for the region.

Conclusion

Based on the above, construction and operation of the proposed project would not result in wasteful, inefficient, or unnecessary consumption of energy resources or conflict with or obstruct a State or local plan for renewable energy or energy efficiency. Thus, implementation of the proposed project would have ***no additional significant environmental effect*** related to energy beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

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

Issues:	Effect will be studied in the EIR	Effect can be mitigated to less than significant	No additional significant environmental effect
6. GEOLOGY AND SOILS Would the project: A) Would the project allow a project to be built that will either introduce geologic or seismic hazards by allowing the construction of the project on such a site without protection against those hazards?		X	

ENVIRONMENTAL SETTING

Seismicity

The City of Sacramento is not located within an Alquist-Priolo Earthquake Fault Zone, and known faults do not exist within the Policy Area. Therefore, fault rupture within the Policy Area is highly unlikely and, consequently, implementation of buildout of the General Plan, would not expose people or structures to the possibility of fault rupture.

Nonetheless, the City may be subject to seismic hazards caused by major seismic events outside the City. Per the Master EIR, the greatest earthquake threat to the City comes from earthquakes along Northern California's major faults, including the San Andreas, Calaveras, and Hayward faults. Ground shaking on any of the aforementioned faults could cause shaking within the City to an intensity of 5 to 6 moment magnitude (Mw). However, as noted above, the City is not within an Alquist-Priolo Earthquake Fault Zone and does not include any known active faults. As such, the City's seismic ground-shaking hazard is low, ranking among the lowest in the State. Additionally, the City is in Seismic Zone 3. Accordingly, any future development, rehabilitation, reuse, or possible change of use of a structure would be required to comply with all design standards applicable to Seismic Zone 3.

Topography

Terrain in the City of Sacramento features very little relief and the potential for slope instability within the City is minor due to the relatively flat topography of the area. The topography of the project site is relatively level, and is not a risk of seismically-induced landslides. Due to the relatively flat topography of the area, the potential for slope instability within the City and at the project site is minor.

Regional Geology

The City of Sacramento is located in the Great Valley Geomorphic Province. The Great Valley Geomorphic Province consists of a deep, northwest-trending sedimentary basin that borders the east of the Coast Ranges. The Great Valley Geomorphic Province is a flat alluvial plain approximately 50 miles wide and 400 miles long in the central portion of California. The northern portion of the Great Valley Geomorphic Province is the Sacramento Valley drained by the Sacramento River, and the southern part is the San Joaquin Valley drained by the San Joaquin River. The valley is surrounded by the Sierra Nevada to the east, the Tehachapi Mountains to the south, Coastal Range to the west, and Cascade Range to the north.

STANDARDS OF SIGNIFICANCE

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

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

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

ANSWERS TO CHECKLIST QUESTIONS

Question A

The City of Sacramento's topography is relatively flat, the City is not located within an Alquist-Priolo Earthquake Fault Zone, and the City is not located in the immediate vicinity of an active fault. However, Sacramento is located in a moderate seismically-active region. The 2035 General Plan indicates that ground shaking would occur periodically in Sacramento as a result of distant earthquakes. The 2035 General Plan further states that the earthquake resistance of any building is dependent on an interaction of seismic frequency, intensity, and duration with the structure's height, condition, and construction materials. Although the project site is not located near any active or potentially active faults, strong ground shaking could occur at the project site during a major earthquake on any of the major regional faults.

The proposed project would include the development of 48 single-family townhomes. Due to the seismic activity in the State, construction is required to comply with Title 24 of the Uniform Building Code (UBC). Chapter 15.20 of the Sacramento City Code adopts the UBC and mandates compliance; therefore, all new construction and modifications to existing structures within the City are subject to the requirements of the UBC. The UBC contains standards to ensure that all structures and infrastructure are constructed to minimize the impacts from seismic activity, to the extent feasible, including exposure of people or structures to substantial, adverse effects as a result of strong groundshaking, seismic-related ground failure, liquefaction, lateral spreading, landslides, or lurch cracking. As a result, seismic activity in the area of the proposed development would not expose people or structures to substantial, adverse effects as a result of strong groundshaking and seismic-related ground failure.

In addition, issues related to fault rupture, seismic groundshaking, and seismically induced ground failures are addressed in the City's adopted Standard Specifications for Public Works Construction (2007), which requires construction contractors to build to City standards related to structural integrity, thus ensuring that erosion and unstable soil conditions do not occur as a result of construction. The construction specification document contains provisions that require contractors to be responsible for damage caused during construction and to be responsible for the repair of such damages (e.g., settling of adjacent land and structures). The proposed project, including off-site improvements, would require heavy construction, and individual components used in the construction of the project would be constructed to industry-provided design specifications and requirements, including the American Society for Testing and Materials (ASTM) standards.

Soils typically found most susceptible to liquefaction are saturated and loose, fine to medium grained sand. Liquefaction occurs where surface soils become saturated with water and become mobile during groundshaking caused by a seismic event. When soils subject to liquefaction move, the foundations of structures move as well which can cause structural damage. Liquefaction generally occurs below the water table, but could move upward through soils after development. The Master EIR identified soils subject to liquefaction to be found within areas primarily within the Central City, Pocket, and North and South Natomas Community. However, the Master EIR recommends using site-specific geotechnical studies to determine if in fact, a specific location may be subject to liquefaction hazard.

According to the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, the soil within the project site is composed entirely of San Joaquin fine sandy loam, 0 to

3 percent slopes.[11] The soil carries a rating of "Not limited" for development of dwellings without basements, which indicates that the soil has features that are very favorable for the specified use and is not expansive. Although the project site has a low potential for other soil hazards such as liquefaction and landslide, in compliance with Policy EC 1.1.2, a geotechnical investigation for project site must be performed in order to identify and respond to any site-specific geologic hazards.

The proposed project would be required to comply with all applicable provisions of the 2019 CBSC, which incorporates elements of the UBC, and was adopted by the City through Sacramento City Code Section 15.04.050. The CBSC contains the latest seismic safety requirements to resist ground shaking through modern construction techniques, which are periodically updated to reflect the most recent seismic research. In addition, pursuant to Section 17.828.040 of the Sacramento City Code, an applicant seeking approval of a tentative subdivision map is simultaneously required to provide a preliminary soil investigation and geological reconnaissance report prepared by a registered civil engineer specializing and recognized in soil mechanics and foundation engineering. The geological reconnaissance report would contain any applicable recommendations to ensure buildout of the proposed project does not result in substantial adverse effects related to geologic or seismic hazards. The project would require a Tentative Subdivision Map, and would, therefore, be subject to the requirements set forth in Sacramento City Code Section 17.828.040.

Furthermore, the Sacramento Master EIR evaluated exposure of people to risk from seismic hazards, such as groundshaking and liquefaction under Impact 4.5-1 and concluded that with compliance with all applicable regulations and policies established by the Sacramento City Code, impacts related to geologic or seismic hazards would be less than significant. The proposed project is consistent with the land use designation and zoning established in the Sacramento General Plan, and would comply with all applicable policies and regulations. In addition, development of the project site would be built to City of Sacramento Building Code, UBC Standards, and California Building Code Standards.

As such, the proposed project would not introduce geologic or seismic hazards by allowing the construction of the project on the site without protection against such hazards. With implementation of Mitigation Measure 6-1, the ***effect can be mitigated to less than significant***.

MITIGATION MEASURES

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

6-1 *Prior to issuance of Grading Permits, the applicant shall retain the services of a qualified geologist to prepare a design-level Geotechnical Report for the project site. The grading plans shall incorporate all geotechnical recommendations specified in the Geotechnical Report prepared for the proposed project. All grading and foundation plans for the development must be reviewed and approved by the City Engineer and Chief Building Official prior to issuance of grading and building permits in order to ensure that recommendations in the Geotechnical Report are properly incorporated and utilized in the project design.*

FINDINGS

All additional significant environmental effects of the project relating to Geology and Soils can be mitigated to a less-than-significant level.

[11] United States Department of Agriculture. *Natural Resources Conservation Science.* Available at: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx. Accessed January 2022.

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

Environmental Setting

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

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

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

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

Greenhouse Gases

Certain gases in the earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. GHGs are responsible for "trapping" solar radiation in the earth's atmosphere, a phenomenon known as the greenhouse effect. Prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Human-caused emissions of these GHGs in excess of natural ambient concentrations are believed responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of

the earth's climate, known as global climate change or global warming. Emissions of GHGs contributing to global climate change are attributable, in large part, to human activities associated with on-road and off-road transportation, industrial/manufacturing, electricity generation by utilities and consumption by end users, residential and commercial on-site fuel usage, and agriculture and forestry. Emissions of CO_2 are, largely, byproducts of fossil fuel combustion.

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

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

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

STANDARDS OF SIGNIFICANCE

- A project is considered to have a significant effect relating to GHG emissions if it fails to satisfy the requirements of the City's Climate Action Plan or is inconsistent with the applicable SMAQMD thresholds of significance.

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

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

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

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

Questions A and B

Maximum annual GHG emissions from construction and operations of the proposed project were quantified and would equal approximately 211.85 metric tons of CO_2 equivalent units per year ($MTCO_2e$/yr) and 386.99

$MTCO_2e$/yr, respectively. For construction-related GHG emissions, the SMAQMD has adopted a threshold of significance of 1,100 $MTCO_2e$/yr. Construction of the proposed project would not exceed this threshold.

For evaluating operational GHG emissions, SMAQMD has prepared a two-tiered framework of analysis for new projects, as explained further below. In addition, the City of Sacramento has integrated a CAP into the City's General Plan. Thus, potential impacts related to climate change from development within the City are also assessed based on the project's compliance with the City's adopted General Plan CAP Policies and Programs set forth in Appendix B of the General Plan Update. The majority of the policies and programs set forth in Appendix B are citywide efforts in support of reducing overall citywide emissions of GHG. However, various policies related to new development within the City would directly apply to the proposed project.

The project's compliance with SMAQMD thresholds, as well as the project's general consistency with City policies that would reduce GHG emissions from buildout of the City's General Plan are discussed below.

SMAQMD Threshold Compliance

The proposed project would be required to meet the following BMPs, regardless of emissions:

- **BMP 1:** No natural gas: Projects shall be designed and constructed without natural gas infrastructure.
- **BMP 2:** Electric vehicle (EV) ready: Projects shall meet the current CALGreen Tier 2 standards, except all EV Capable spaces shall instead be EV Ready.

In addition, projects with operational emissions that exceed 1,100 $MTCO_2e$/yr after implementation of BMP 1 and BMP 2, are required to implement Tier 2 measures (BMP 3) as follows:

- **BMP 3:** Residential projects shall achieve a 15 percent reduction in VMT per resident as compared to the existing average VMT for the County.

As discussed above, maximum annual GHG emissions from operations of the proposed project were quantified and would equal approximately 386.99 $MTCO_2e$/yr. Therefore, even without the implementation of BMP 1 and BMP 2, emissions would be below 1,100 $MTCO_2e$/yr, and implementation of BMP 3 would not be required.

In order to be consistent with BMP 1, the proposed project is required to include all electric appliances and plumbing. However, project specific information is not available to ensure that the proposed project would be designed and constructed without natural gas infrastructure.

Regarding BMP 2, the 2019 CALGreen Code requires all single-family residences, townhomes, and duplexes be EV capable (i.e., each dwelling unit must have a listed raceway to accommodate a dedicated 208/40-volt branch circuit), which would be suitable for EV charging. However, compliance with the 2019 CALGreen Code would not satisfy the requirements established by SMAQMD BMP 2, as BMP 2 requires spaces to be EV Ready.

Based on the above, the proposed project does not include the necessary infrastructure to meet the requirements of BMP 1 or BMP 2. Therefore, Mitigation Measure 7-1 would be required to ensure compliance with the SMAQMD thresholds.

CAP Consistency

Goal LU 1.1 and Policy LU 1.1.5 encourage infill development within existing urbanized areas. Given that the proposed project would be consistent with the site's current land use and zoning designations and the surrounding areas are already built out, the project would be consistent with Goal LU 1.1 and Policy LU 1.1.5. The proposed project would be constructed in compliance with the California Building Standards Code (CBSC), which includes the California Building Energy Efficiency Standards and the California Green

Building Code. The CBSC, and the foregoing standards and codes, increase the sustainability of new development through requiring energy efficiency and sustainable design practices (Policy ER 6.1.7). Such sustainable design would support the City's Policy U 6.1.5, which states that energy consumption per capita should be reduced as compared to the year 2005.

Goal LU 2.5, Policy LU 2.5.1, and Policy LU 2.7.6 require that new urban developments should be well-connected, minimize barriers between uses, and create pedestrian-scaled, walkable areas. Sacramento RT 19 provides transit opportunities from the project site. Additionally, the proposed project would not result in removal of any existing bicycle or pedestrian facilities or preclude the implementation of any proposed or existing off-street trails in the vicinity of the project. In fact, the proposed project would provide pedestrian access and bike lanes along Norwood Avenue and Main Avenue on the project site frontage. As such, the proposed project would comply with the aforementioned goals and policies.

The Master EIR concluded that buildout of the City's General Plan, including the project site, would not result in a conflict with applicable plans, policies, or regulations adopted for the purpose of reducing GHG emissions. The proposed project would be generally consistent with the City's residential General Plan land use designation for the site as well as the policies discussed above that are intended to reduce GHG emissions from buildout of the City's General Plan. Thus, GHG emissions from operation of the proposed project would be generally similar to what was previously analyzed in the Master EIR, and would be consistent with the CAP.

Conclusion

Based on the above, the project would be consistent with the City's CAP, and generally consistent with the City's General Plan policies intended to reduce GHG emissions. However, the proposed project does not include the necessary infrastructure to meet the requirements of BMP 1 or BMP 2. Therefore, Mitigation Measure 7-1 would be required to ensure compliance with the applicable SMAQMD BMPs. Compliance with Mitigation Measure 7-1 would ensure that ***the effect can be mitigated to less than significant.***

MITIGATION MEASURES

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

7-1 The following requirements shall be noted on project improvement plans, subject to review and approval by the City of Sacramento Community Development Department:

- *The proposed project shall be designed such that the project is built all-electric, and natural gas infrastructure shall be prohibited on-site; and*
- *Each dwelling unit shall be constructed to include an electric vehicle (EV) ready parking space, consistent with SMAQMD BMP 2.*

FINDINGS

All additional significant environmental effects of the project relating to Greenhouse Gas Emissions can be mitigated to a less-than-significant level.

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

ENVIRONMENTAL AND REGULATORY SETTING

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

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

SMAQMD Rule 902 and Commercial Structures

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

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

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

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

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

A Phase I Environmental Site Assessment (ESA) was prepared for the proposed project by Geocon Consultants, Inc. in March 2022 (see Appendix D).[12] The Phase I ESA included a review of previous land uses and history of the subject property, databases for records of known storage tanks sites or hazardous materials, and available information from federal, State, or local agency lists of potentially hazardous wastes or materials on site. In addition, a site reconnaissance was conducted on February 11, 2022. The purpose of the site reconnaissance was to examine the subject property for obvious physical indications of improper hazardous substances or evidence of petrochemical disposal, such as stained soil, stressed vegetation, sumps, partially buried drums, bulk underground and above-ground fuel storage tanks, and other obvious signs of hazardous materials involvement.

STANDARDS OF SIGNIFICANCE

For the purposes of this IS, an impact is considered significant if the proposed project would:

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

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

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

ANSWERS TO CHECKLIST QUESTIONS

Question A

According to the City's Master EIR, grading, excavation, and dewatering of sites for new development may expose construction workers and the public to known or previously unreported hazardous substances present in the soil or groundwater. If new development is proposed at or near a documented or suspected hazardous materials site, investigation, remediation, and cleanup of the site would be required before construction could begin. The Phase I ESA prepared for the project site searched for Recognized Environmental Concerns (RECs) that may affect future users of the subject property. RECs refer to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products in structures on the property or into the ground, groundwater, or surface water of the property. According to the Phase I ESA, RECs were not identified on or in the immediate vicinity of the subject property that would likely pose a significant impact. Furthermore, the project site is not located on a hazardous waste facility or site with known contamination. The closest listed hazardous site is the Norwood Junior High School, approximately 0.25-mile southwest of the project site. ENSR Corporation performed a Phase I ESA in September 2000 for the school site and did not identify any RECs associated with the school property. The findings of that Phase I ESA suggest that the school property would not have caused a REC at the site.

[12] Geocon Consultants Inc. *Phase I Environmental Site Assessment Report, 4790 Norwood Avenue, Sacramento, California*. March 2022.

As noted in the Phase I ESA prepared for the project, through the inspection of aerial photographs, the Phase I ESA determined that the project site was developed with a single-family residence and farm structures in the northwestern portion of the site from approximately 1937 to 1984. From 1984 to the present, the project site has remained undeveloped. Nonetheless, the Phase I ESA concludes that the potential exists for a heating oil underground storage tank (UST) to be present at the location of the former residence in the northwestern portion of the project site. Such USTs have the potential to contain materials that, should they leak, could contaminate soils and groundwater and result in hazardous conditions. Thus, the project could 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 and a potentially significant impact could occur. With implementation of Mitigation Measure 8-1, the ***effect can be mitigated to less than significant***

Question B

Asbestos is the name for a group of naturally occurring silicate minerals that are considered to be “fibrous” and, through processing, can be separated into smaller and smaller fibers. The fibers are strong, durable, chemical resistant, and resistant to heat and fire. They are also long, thin and flexible, so they can even be woven into cloth. Because of these qualities, asbestos was considered an ideal product and has been used in thousands of consumer, industrial, maritime, automotive, scientific and building products. However, later discoveries found that, when inhaled, the material caused serious illness.

For buildings constructed prior to 1980, the Code of Federal Regulations (29 CFR 1926.1101) states that all thermal system insulation (boiler insulation, pipe lagging, and related materials) and surface materials must be designated as “presumed asbestos-containing material” unless proven otherwise through sampling in accordance with the standards of the Asbestos Hazard Emergency Response Act. Asbestos-containing materials could include, but are not limited to, plaster, ceiling tiles, thermal systems insulation, floor tiles, vinyl sheet flooring, adhesives, and roofing materials.

Lead-based paint (LBP) is defined as any paint, varnish, stain, or other applied coating that has one milligram per cubic centimeter or greater (5,000 micrograms per gram or 5,000 parts per million) of lead by federal guidelines. Lead is a highly toxic material that may cause a range of serious illnesses and, in some cases, death. In buildings constructed after 1978, LBP is unlikely to be present. Structures built prior to 1978 and especially prior to the 1960s should be expected to contain LBP.

The proposed project includes the construction of 48 single-family townhome units on unoccupied land. While the structures that formerly occupied the northwestern portion of the site are likely to have contained asbestos and LBP, any remnants have very little likelihood to remain on the project site. As a result, asbestos and LBP are unlikely to be present on the project site, and construction would not result in exposure to such hazards.

In addition, the project site is not located in eastern Sacramento County and is not in an area identified as likely to contain naturally-occurring asbestos (NOA). Thus, receptors would not be exposed to NOA as a result of ground-disturbing activities associated with implementation of the proposed project.

Based on the above, activities associated with the proposed project would not result in the exposure of people to asbestos-containing materials or other hazardous materials. Therefore, implementation of the proposed project would have ***no additional significant environmental effect*** related to exposing people to asbestos-containing materials or other hazardous materials beyond what was previously evaluated in the Master EIR.

Question C

According to the Phase I ESA prepared for the project, site-specific groundwater information for the project site does not exist. Based on a groundwater monitoring report for a site approximately 2,300 feet east-northeast of the project site (the former Nolan’s Self-Serve fuel station), depth to groundwater ranged from 54.65 to 59.90 feet in March 2013 and groundwater flow was to the southeast. Groundwater conditions beneath the project site could reasonably be assumed to be similar to the conditions associated with the

former Nolan's Self-Serve fuel station site. The construction activities associated with the proposed project are not anticipated to reach such depth, and dewatering would not be required for implementation of the proposed project.

Furthermore, according to the Phase I ESA, groundwater on the project site has not been contaminated. Therefore, impacts related to exposing people to existing contaminated groundwater during dewatering activities would be less than significant, and construction of the proposed project would have ***no additional significant environmental effect*** related to groundwater contamination beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

Implementation of Mitigation Measure 8-1 below would reduce the impacts identified above related to the exposure of people to contaminated soil during construction activities to a *less-than-significant* level.

8-1 *During grading and construction activities, if underground storage tanks (USTs) are encountered, the applicant shall obtain a permit from the Sacramento County Environmental Management Department and hire a licensed contractor to properly remove the UST, subject to review and approval by the Sacramento County Environmental Management Department. If soils suspected of being contaminated are encountered in association with the USTs, the soils shall be removed in accordance with Regional Water Quality Control Board (RWQCB) guidelines. Further remediation, if necessary, and disposal of the soils shall be conducted in accordance with State and federal guidelines, subject to verification by the Community Development Department.*

FINDINGS

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

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

ENVIRONMENTAL SETTING

The project site is located in an urbanized area within the North Sacramento Community Plan Area. Currently, the project site is undeveloped and regularly disked with clusters of trees in the site's northern portion. The site does not contain existing storm drainage infrastructure, although such infrastructure exists in the project vicinity.

The City of Sacramento's Grading Ordinance requires that development projects comply with the requirements of the City's Stormwater Quality Improvement Plan (SQIP). The SQIP outlines the priorities, key elements, strategies, and evaluation methods of the City's Stormwater Management Program. The City's Stormwater Management Program is based on the National Pollutant Discharge Elimination System (NPDES) municipal stormwater discharge permit. The comprehensive Stormwater Management Program includes pollution reduction activities for construction sites, industrial sites, illegal discharges and illicit connections, new development, and municipal operations. In addition, before the onset of any construction activities, where the disturbed area is one acre or more in size, projects are required to obtain coverage under the NPDES General Construction Permit and include erosion and sediment control plans. BMPs may consist of a wide variety of measures taken to reduce pollutants in stormwater and other non-point source runoff. Measures that reduce or eliminate post-construction-related water quality problems range from source controls, such as reduced surface disturbance, to treatment of polluted runoff, such as detention or retention basins. The City's SQIP and the *Stormwater Quality Design Manual for the Sacramento Region* (Sacramento Stormwater Quality Partnership 2014) include BMPs to be implemented to mitigate impacts from new development and redevelopment projects, as well as requirements for low impact development (LID) standards.

The Federal Emergency Management Agency (FEMA) publishes Flood Insurance Rate Maps (FIRM) that delineate flood hazard zones for communities. The project site is located within an area designated as Zone X, which is applied to areas of 0.2 percent annual chance flood, areas of one percent annual chance flood with average depths of less than one foot, or with drainage areas less than one square mile, and areas protected by levees from one percent annual chance flood. While the majority of the project site is within the area of Zone X identified as an Area of Minimal Flood Hazard, a small portion of the site, within the west-central portion of the site, is within the area of Zone X identified as an Area with Reduced Flood Risk due to Levee. FEMA does not have building regulations for development in areas designated Zone X and would not require mandatory flood insurance for structures in Zone X.

Section 13.08.145 of the Sacramento City Code (Mitigation of drainage impacts; design and procedures manual for water, sanitary sewer, storm drainage, and water quality facilities) requires that when a property contributes drainage to the storm drain system or combined sewer system, all stormwater and surface runoff drainage impacts resulting from the improvement or development must be fully mitigated to ensure

that the improvement or development does not affect the function of the storm drain system or combined sewer system, and that an increase in flooding or in water surface elevation that adversely affects individuals, streets, structures, infrastructure, or property does not occur. The project is within the City's separated sewer system service area and would be subject to Sewer System Development Fees, which are intended to recover an appropriate share of the capital costs of the City's existing and/or new sewer system facilities. In addition to sewer service provided by the City of Sacramento DOU, the project would also be within the SRCSD. In order to connect with the SRCSD wastewater conveyance and treatment system, developers must pay impact fees.[13] In infill areas, single-family residential customers must pay 3,602 dollars per dwelling unit.

STANDARDS OF SIGNIFICANCE

For purposes of this IS, impacts to hydrology and water quality may be considered significant if construction and/or implementation of the proposed project would result in the following impacts that remain significant after implementation of general plan policies or mitigation from the 2035 General Plan Master EIR:

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

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

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

ANSWERS TO CHECKLIST QUESTIONS

Question A

The proposed project has the potential to effect water quality during both construction and operation. Further details regarding the potential effects are provided below.

Construction

Construction activities associated with the proposed project would create the potential to degrade water quality from increased sedimentation and increased discharge (increased flow and volume of runoff) associated with storm water runoff. The SWRCB adopted a statewide general NPDES permit for stormwater discharges associated with construction activity. Dischargers whose projects disturb one or more acres of soil are required to obtain coverage under the General Permit for Discharges of Storm Water Associated with Construction Activity Construction General Permit Order 2012-0006-DWQ. Construction activity subject to the General Permit includes clearing, grading and disturbances to the ground such as stockpiling, or excavation. The proposed project would include disturbance of approximately 3.7 acres; thus, the project would be subject to the aforementioned regulations.

[13] Regional San. *Impact Fees.* Available at: https://www.regionalsan.com/impact-fees-businesses. Accessed January 2022.

The City's SQIP contains a Construction Element that guides implementation of the NPDES Permit for Storm Water Discharges Associated with Construction Activity. This General Construction Permit requires the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP should contain a site map(s) which shows the construction site perimeter, existing and proposed buildings, lots, roadways, storm water collection and discharge points, general topography both before and after construction, and drainage patterns across the project. The SWPPP must list BMPs the discharger would use to protect storm water runoff and the placement of those BMPs. Additionally, the SWPPP must contain a visual monitoring program; a chemical monitoring program for "non-visible" pollutant to be implemented if there is a failure of BMPs; and a sediment monitoring plan if the site discharges directly to a water body listed on the 303(d) list for sediment. Section A of the Construction General Permit describes the elements that must be contained in a SWPPP. Compliance with City requirements to protect storm water inlets would require the developer to implement BMPs such as the use of straw wattles, sandbags, gravel traps, and filters; erosion control measures such as vegetation and physical stabilization; and sediment control measure such as fences, dams, barriers, berms, traps, and basins. City staff inspects and enforces the erosion, sediment and pollution control requirements in accordance with City codes (Grading, Erosion and Sediment Control Ordinance).

Conformance with City regulations and permit requirements along with implementation of BMPs would ensure that construction activities of the proposed project would result in a less-than-significant impact related to water quality.

Operations

Because the project site is currently undeveloped, implementation of the proposed project would increase the amount of impervious surface area from existing conditions. As a result, following implementation of the project, less pervious surface area would be available for stormwater to infiltrate on-site soils. Consistent with Chapter 13.16 of the City Code, the post-development stormwater flows from the site would be required to be equal to or less than pre-development conditions.

As a standard Condition of Approval (COA) for development projects in the City, the City's DOU requires preparation and submittal of project-specific drainage studies. With submittal of the required drainage study, the DOU would review the Improvement Plans for the proposed project prior to approval to ensure that adequate water quality control facilities and certified full capture trash control devices are incorporated. It should be noted that the proposed project would comply with Section 13.08.145, Mitigation of drainage impacts; design and procedures manual for water, sanitary sewer, storm drainage, and water quality facilities, of the City Code, which requires the following:

> "When property that contributes drainage to the storm drain system or combined sewer system is improved or developed, all stormwater and surface runoff drainage impacts resulting from the improvement or development shall be fully mitigated to ensure that the improvement or development does not affect the function of the storm drain system or combined sewer system, and that there is no increase in flooding or in water surface elevation that adversely affects individuals, streets, structures, infrastructure, or property."

According to the project-specific drainage study,[14] the proposed drainage system would convey surface drainage to various drainage inlets located throughout the site. The proposed drainage inlets would then convey the drainage to three proposed manholes located in Norwood Avenue, which would connect to the existing 36-inch City storm drain pipe (see Figure 4). On-site detention would be provided by oversized drain pipes for storage with an orifice to the off-site drainage system. A number of source control measures would be included, consistent with the *Stormwater Quality Design Manual for the Sacramento Region* such as trash capture devices, storm drain inlet markings and signage, and low impact development control measures. Implementation of the proposed project would be required to comply with all applicable policies and regulations set by the City's General Plan and the City Code. Considering the required preparation of

[14] Baker Williams Engineering Group. *Technical Memorandum: Norwood Avenue Townhomes, Description of Proposed Drainage System.* May 4, 2022.

a site-specific drainage study and associated compliance with the applicable regulations, adverse impacts related to water quality during project operations would not occur.

Conclusion

Design of the proposed project site in conformance with City and State regulations would ensure that a substantial degradation to water quality or violation of any water quality objectives due to increases in sediments and other contaminants generated by construction and/or development of the proposed project would not occur. Therefore, the proposed project would not result in significant impacts related to such. Implementation of proposed project would have ***no additional significant environmental effect*** related to drainage and runoff beyond what was previously evaluated in the Master EIR.

Question B

A floodplain is an area that is inundated during a flood event and is often physically discernable as a broad, flat area created by historic flood. According to FEMA's FIRM, the project site is within Zone X, which is outside of the 100-year floodplain. As such, the proposed project would not place housing or structures within a 100-year flood hazard area.

Given that the proposed project would not be located within a 100-year floodplain, impacts related to flooding would be considered less than significant, and implementation of proposed project would have ***no additional significant environmental effect*** related to flooding beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Hydrology and Water Quality.

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

ENVIRONMENTAL SETTING

The following provides a summary of the existing noise and vibration environment associated with the project site and vicinity.

Noise

Sound is defined as any pressure variation in air that the human ear can detect. If the pressure variations occur frequently enough (at least 20 times per second), they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second, called Hertz (Hz). Discussing sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel (dB) scale was devised. The decibel scale uses the hearing threshold (20 micropascals of pressure), as a point of reference defined as 0 dB. Other sound pressures are compared to the reference pressure and the logarithm is taken to keep the numbers in practical range. The dB scale allows a million-fold increase in pressure to be expressed as 120 dB. To better relate overall sound levels and loudness to human perception, frequency-dependent weighting networks were developed. A strong correlation exists between the way humans perceive sound and A-weighted sound levels. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment for community exposures. All sound levels expressed as dB in this section are A-weighted sound levels, unless noted otherwise.

Community noise is commonly described in terms of the "ambient" noise level, which is defined as the all-encompassing noise level associated with a given noise environment. A common statistical tool to measure

the ambient noise level is the average, or equivalent, sound level (L_{eq}), over a given time period (usually one hour). The L_{eq} is the foundation of the composite noise descriptors, day-night average level (L_{dn}) and the community noise equivalent level (CNEL), and shows very good correlation with community response to noise for the average person. The median noise level descriptor, denoted L_{50}, represents the noise level which is exceed 50 percent of the hour. In other words, half of the hour ambient conditions are higher than the L_{50} and the other half are lower than the L_{50}.

The L_{dn} is based upon the average noise level over a 24-hour day, with a +10 dB weighting applied to noise occurring during nighttime (10:00 PM to 7:00 AM) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because L_{dn} represents a 24-hour average, L_{dn} tends to disguise short-term variation in the noise environment. Where short-term noise sources are an issue, noise impacts maybe assessed in terms of maximum noise levels, hourly averages, or other statistical descriptors.

Another common descriptor is the CNEL. The CNEL is similar to the L_{dn}, except CNEL has an additional weighting factor. Both average noise energy over a 24-hour period. The CNEL applies a +5 dB weighting to events that occur between 7:00 PM and 10:00 PM, in addition to the +10 dB weighting between 10:00 PM and 7:00 AM associated with L_{dn}. Typically, the CNEL and L_{dn} show similar results for the same noise events, with the CNEL sometimes resulting in reporting a 1 dB increase compared to the L_{dn} to account for noise events between 7:00 PM and 10:00 PM that have the additional weighting factor.

Vibration

Vibration is like noise in that vibration involves a source, a transmission path, and a receiver. While vibration is related to noise, vibration differs in that 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 a frequency. A person's perception to the vibration will depend 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 can be measured in terms of acceleration, velocity, or displacement. Vibration magnitude is measured in vibration decibels (VdB) relative to a reference level of 1 micro-inch per second peak particle velocity (ppv), the human threshold of perception. The background vibration level in residential areas is usually 50 VdB or lower. Most perceptible indoor vibration is caused by sources within buildings such as operation of mechanical equipment, movement of people, or slamming of doors. Typical outdoor sources of perceptible ground-borne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If the roadway is smooth, the vibration from traffic is rarely perceptible. The range of environmental interest is typically from 50 VdB to 90 VdB (or 0.12 inch per second ppv), the latter being the general threshold where structural damage can begin to occur in fragile buildings.

Existing Noise Environment

The primary source of ambient noise and groundborne vibration in the project vicinity is traffic associated with Norwood Avenue and Main Avenue, located west and north of the project site, respectively.

STANDARDS OF SIGNIFICANCE

For purposes of this IS, impacts due to noise may be considered significant if construction and/or implementation of the proposed project would result in the following impacts that remain significant after implementation of General Plan policies:

- Result in exterior noise levels in the project area that are above the upper value of the normally acceptable category for various land uses due to the project's noise level increases;
- Result in residential interior noise levels of 45 dBA L_{dn} or greater caused by noise level increases due to the project;
- Result in construction noise levels that exceed the standards in the City of Sacramento Noise Ordinance;

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

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

The Master EIR evaluated the potential for development under the 2035 General Plan to increase noise levels in the community. New noise sources include vehicular traffic, aircraft, railways, light rail and stationary sources. The general plan policies establish exterior (Policy EC 3.1.1) and interior (EC 3.1.3) noise standards. A variety of policies provide standards for the types of development envisioned in the General Plan.

See Policy EC 3.1.8, which requires new mixed-use, commercial and industrial development to mitigate the effects of noise from operations on adjoining sensitive land use, and Policy 3.1.9, which calls for the City to limit hours of operations for parks and active recreation areas to minimize disturbance to nearby residences. Notwithstanding application of the general plan policies, noise impacts for exterior noise levels (Impact 4.8-1) and interior noise levels (Impact 4.8-2), and vibration impacts (Impact 4.8-4) were found to be significant and unavoidable.

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

The proposed project includes development of 48 single-family townhome units on a currently undeveloped lot, as well as improvements to Norwood Avenue and Main Avenue. Residential land uses typically do not generate substantial noise. In addition, typical residential noise associated with the proposed project would be compatible with the adjacent existing residential uses. The primary source of noise during project operations would be generated from traffic on the adjacent roadways.

According to Table 4.8-4 of the Master EIR, the noise level along Norwood Avenue in the proximity of the project site is anticipated to increase by 1.4 dBA as a result of buildout of the 2035 General Plan, from the existing condition of 66.6 dBA to 68 dBA. Because the existing noise conditions exceed the standard of 60 dBA for residential uses, the Master EIR determined that the 2035 General Plan would result in a significant and unavoidable impact resulting from increase of exterior noise levels. The proposed project is consistent with the project site's General Plan land use and zoning designations, and thus was planned as part of the 2035 General Plan. As such, buildout of the project site and the associated increase in noise have already been anticipated in the Master EIR. The proposed project would not increase the noise generation associated with the site from what has already been anticipated in the Master EIR.

Thus, the proposed project would have ***no additional significant environmental effect*** related to noise beyond what was previously evaluated in the Master EIR.

Question C

Construction phases of the proposed project would add to the noise environment in the immediate project vicinity. Table 7 shows maximum noise levels associated with typical construction equipment. Based on the table, activities associated with typical construction would generate maximum noise levels up to 85 dB at a distance of 50 feet.

Table 7 Construction Equipment Noise	
Type of Equipment	**Maximum Level, dB at 50 feet**
Backhoe	78
Compactor	83
Compressor (air)	78
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Pneumatic Tools	85
Source: Federal Highway Administration, Roadway Construction Noise Model User's Guide, January 2006.	

As one increases the distance from a source of noise, dispersion and distance attenuation reduce the effects of the source. The noise levels from a source will decrease at a rate of approximately six dB per every doubling of distance from the noise source. The nearest sensitive receptor to the project site is a single-family residence located approximately 30 feet to the east of the project site. Although noise levels experienced by the nearest sensitive receptors would be higher than those presented above because the nearest receptor is less than 50 feet away, construction noise would occur over a relatively short period of time. In addition, construction activities would occur at different locations on the project site at different times. Thus, whatever noise levels the nearest sensitive receptors would be exposed to would only occur at certain points in the construction activities, not throughout.

The City's Noise Ordinance exempts construction operations that occur between 7:00 AM and 6:00 PM, Monday through Saturday, and between 9:00 AM and 6:00 PM on Sundays, from the applicable noise standards. However, if construction operations were to occur during the noise-sensitive hours of 6:00 PM to 7:00 AM, Monday through Saturday, or from 6:00 PM to 9:00 AM on Sunday, the applicable noise standards could potentially be exceeded at the aforementioned sensitive receptors surrounding the project site. However, because the City has determined that all construction within the City limits must comply with the City's Noise Ordinance, nighttime construction activities would not occur and construction noise associated with use of on-site equipment during the project construction phases would be insignificant.

Because the proposed project would be required to adhere to the City's Noise Ordinance and the increase in noise levels from construction activities would be temporary, noise levels associated with construction of the proposed project would not result in construction noise levels that exceed the standards in the City of Sacramento General Plan or Noise Ordinance. Therefore, implementation of proposed project would have ***no additional significant environmental effect*** related to construction noise beyond what was previously evaluated in the Master EIR.

Question D through F

For structural damage, the California Department of Transportation (Caltrans) uses a vibration limit of 0.5 inches per second (in/sec ppv), for buildings structurally sound and designed to modern engineering standards; 0.2 in/sec ppv for buildings that are found to be structurally sound but where structural damage is a major concern; and a conservative limit of 0.08 in/sec ppv for ancient buildings or buildings that are documented to be structurally weakened.[15] Accordingly, the City uses a threshold of significance for vibration levels of 0.5 in/sec ppv for residential and commercial areas, and 0.2 in/sec ppv for historic buildings and archaeological sites.

Operations of the proposed residential project would not generate groundborne vibration. During project construction, heavy equipment would be used for grading, excavation, paving, and building construction, which would generate localized vibration in the immediate vicinity of construction activities. The primary

[15] California Department of Transportation. *Transportation and Construction Vibration Guidance Manual*. September 2013.

vibration-generating activities would be utilities placement. Table 8 shows the typical vibration levels produced by construction equipment.

Table 8
Vibration Levels for Various Construction Equipment

Type of Equipment	PPV at 25 feet (inches/second)	PPV at 50 feet (inches/second)	PPV at 100 feet (inches/second)
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009
Vibratory Compactor/roller	0.210 (Less than 0.20 at 26 feet)	0.074	0.026

Source: Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.

As shown in Table 8, construction activities are anticipated to generate vibration levels ranging from 0.003 in/sec ppv to 0.210 in/sec ppv at a distance of 25 feet. The nearest noise-sensitive receptors are located approximately 30 feet east of the project site boundary and, therefore, would experience vibration levels less than the 0.5 in/sec ppv threshold for residential areas, and implementation of proposed project would have ***no additional significant environmental effect*** related to groundborne vibration beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

The project would have no additional project-specific environmental effects relating to Noise.

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

ENVIRONMENTAL SETTING

The City of Sacramento provides fire, police, and parks and recreation services in the vicinity of the proposed project site.

The Sacramento Fire Department (SFD) provides fire protection services to the entire City and some small areas just outside the City boundaries within the County limits. SFD provides fire protection and emergency medical services to the project area. First-response service is provided by Station 18, located at 746 North Market Boulevard, approximately 1.3 miles southwest of the project site. Service is also provided by Station 17, located at 1311 Bell Avenue, Sacramento, approximately 1.22 miles southeast of the site.

The Sacramento City Police Department (SPD) provides police protection services to the project area. The project area is serviced by North Command which is located at the 3550 Marysville Boulevard, approximately 2.5 miles away from the project site. In addition to the SPD, the Sacramento County Sheriff's Department, California Highway Patrol (CHP), UC Davis Medical Center Police Department, and the Regional Transit Police Department aid the SPD to provide protection for the City.

The project site is within the Robla School District for primary level education, which feeds into the Twin Rivers Unified School District at the secondary level. The Robla School District serves approximately 2,500 students on six campuses.[16] The Twin Rivers Unified School District serves 27,000 students on 52 campuses.[17] The nearest school, Norwood Junior High School, is located approximately 245 feet southwest of the project site.

The City of Sacramento Department of Youth, Parks and Community Enrichment (Department of YPCE) oversees more than 4,829 acres of parkland, and manages more than 230 parks within the City. The project site is located approximately 1,100 feet to the south of North Point Park and approximately 2,000 feet north of the Robla Community Park.

STANDARDS OF SIGNIFICANCE

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

[16] Robla School District. *About the District*. Available at: https://www.robla.k12.ca.us/apps/pages/index.jsp?uREC_ID=568832&type=d&pREC_ID=1065810. Accessed April 2022.

[17] Twin Rivers Unified School District. *About.* Available at: https://www.twinriversusd.org/About/index.html. Accessed April 2022.

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

The Master EIR evaluated the potential effects of the 2035 General Plan on various public services. Police, fire protection, schools, libraries and emergency services were evaluated in Chapter 4.10 of the Master EIR.

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

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

ANSWERS TO CHECKLIST QUESTIONS

The proposed project involves the development a 48-unit single-family townhome complex on approximately 3.7 acres. The development of the proposed project would introduce new residents to the area. As such, the proposed project would result in an increase in demand for fire and police protection services, as well as schools and other public facilities or services.

Question A

The following discussions pertains to the existing fire, police, and school facilities, as well as the proposed project's impacts related to such facilities and services.

Fire Protection

The SFD provides fire protection services to the entire City, and small areas within Sacramento County that include the Pacific Fruitridge and the Natomas Fire Protection Districts. The SFD serves a population of over 738,000 in a 358 square mile service area. The SFD has approximately 155 on-duty personnel working daily to serve the City.[18]

The closest fire station to the project site is SFD Station 18, located approximately 1.3 miles southwest of the project site. Stated within the Sacramento 2035 General Plan Master EIR, the goal of the SFD is to have fire suppression and paramedic services arrive at the scene within four minutes. Considering the proximity of the project site to Station 18, it is reasonable to assume that response times from the SFD would meet the four-minute response time goal.

As previously mentioned, the proposed project would be consistent with buildout of the Sacramento General Plan and, thus, the increase in population associated with the project has been anticipated by the City. Within the General Plan, Policy PHS 2.1.11 states that the City shall require development projects to contribute fees for fire protection services and facilities. As a result of Policy PHS 2.1.11, the project would be required to pay applicable development fees financially supporting the SFD. Considering that the project is consistent with the General Plan and the proximity of the site to Station 18, the proposed project would not result in the need for new or altered services related to fire protection and a less-than-significant impact would occur.

[18] Metro Fire Sacramento. *About Us*. Available at: https://metrofire.ca.gov/about-us. Accessed January 2022.

Police Protection

The SPD provides police protection services within the City boundaries. The SPD uses a variety of data that includes GIS based data, call and crime frequency information, and available personnel to rebalance the deployment of resources on an annual basis to meet the changing demands of the City. In addition, the Sacramento County Sheriff's Department provides police protection services outside the City limits but within the Planning Area. According to the General Plan Master EIR, as buildout of the General Plan occurs, the SPD would need new, decentralized facilities that would be required to maintain adequate response times. Currently, the SPD averages an eight minute and five second response time for Priority 2 calls.

Similar to the SFD, the added population from the proposed project would create an increased demand in police services to the project area; however, as mentioned above, because the proposed project is consistent with the General Plan, the associated increase in population has already been anticipated by the City. The General Plan policies include measures to accommodate for growth and increased service demands. Specifically, Policy PHS 1.1.1 calls for the City to prepare a Police Master Plan to address staffing and facility needs. In addition, Policy PHS 1.1.8 within the Master EIR requires development projects to contribute fees for police facilities. As a result, the proposed project would be required to pay applicable development impact fees to fund necessary police services. Implementation of polices and goals required within the General Plan would reduce growth inducing impacts on police services to a less-than-significant impact.

Considering the above, the proposed project is consistent with buildout of the Sacramento General Plan and, thus, the increase in population associated with the project has been anticipated by the City. As a result, the proposed project would not result in the need for new or altered services related to police protection and a less-than-significant impact would occur.

Schools

The City is served by six school districts providing public elementary, middle school, and high school opportunities. The school districts include the Sacramento City Unified School District, Twin Rivers Unified School District, Robla School District, Natomas Unified School District, and the Elk Grove Unified School District. The proposed project is within the Robla School District and the Twin Rivers Unified School District. Neither school districts have any schools that are at or above capacity.[19,20]

Development of the proposed project would generate additional students in the area. However, as discussed above, the proposed project would be consistent with the 2035 General Plan land use designation for the site. As such, the increase in students associated with buildout of the site has been addressed in the 2035 General Plan EIR. As stated within the General Plan EIR, all impacts on schools are considered to be less than significant with payment of the State Department of Education Development Fee, which was enacted to provide for school facilities construction, improvements, and expansion. Policies ERC 1.1.1 and 1.1.2 encourage the City to work with school districts to ensure that schools are provided to serve all existing and future residents and constructed in the neighborhoods that they serve, in safe locations, and connected to surrounding uses by walkways, bicycle paths, and greenway.

As a result, implementation of education development fees and policies within the General Plan would ensure the proposed project's impacts on schools would be less than significant.

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[19] Robla School District. *About the District*. Available at: https://www.robla.k12.ca.us/apps/pages/index.jsp?uREC_ID=568832&type=d&pREC_ID=1065810. Accessed April 2022.

[20] Twin Rivers Unified School District. *About.* Available at: https://www.twinriversusd.org/About/index.html. Accessed April 2022.

Other Governmental Services

The Sacramento Public Library (SPL) serves the cities of Sacramento, Citrus Heights, Elk Grove, Galt, Iselton, Rancho Cordova, and the County of Sacramento. The SPL authority is governed by a Joint Exercise of Powers Agreement between these cities and counties to provide public library services to all citizens in the jurisdiction. Currently, 16 new libraries are planned for construction in the City and County of Sacramento by 2025. Based on plans set forth in the SPL Authority Facility Master Plan, the SPL expects to provide 1,007,274 sf of library space throughout the SPL Authority's service area by 2025. The new library spaced would meet the target level, 0.40 sf library facilities per capita, defined in the General Plan EIR.

The proposed project would result in an increase in demand for other governmental services, such as library service. The Del Paso Heights Library, located approximately 1.37 miles south of the project site, currently serves the project site and the surrounding area. However, because the proposed project would be required to comply with the General Plan policies, and the SPL Facility Master Plan outlines plans to meet the library target level in 2025, the proposed project would not result in the need for new or altered services related to fire other governmental services beyond what was anticipated in the 2035 General Plan and a less-than-significant impact would occur.

Conclusion

As noted above, the applicant would be required to pay all of the required development fees to the appropriate public services departments. Payment of such would ensure that impacts related to fire protection, police protection, school facilities, or other governmental services would be reduced to a less-than-significant level. Therefore, implementation of proposed project would have ***no additional significant environmental effect*** beyond what was previously evaluated in the Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

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

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

ENVIRONMENTAL SETTING

Natural resources and parks provide a wide range of recreational opportunities for residents in the vicinity of the project site. The City currently contains 230 developed and undeveloped park sites, 88 miles of off-street bikeways and trails, 21 lakes/ponds or beaches, over 20 aquatic facilities, and extensive recreation facilities in the City parks. With the inclusion of the City's golf courses (633 acres) and Camp Sacramento, which is located in El Dorado County (19 acres), the City's parkland total is approximately 4,829 acres. The proposed project is nearby to various recreational and park facilities. North Point Park, approximately 1.73 acres, is located approximately 980 feet northwest of the project site. In addition, the Robla Community Park, 17.82 acres, is 0.35-mile southeast of the project site.

STANDARDS OF SIGNIFICANCE

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

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

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

Chapter 4.9 of the Master EIR considered the effects of the 2035 General Plan on the City's existing parkland, urban forest, recreational facilities and recreational services. The General Plan identified a goal of providing an integrated park and recreation system in the City (Goal ERC 2.1). New residential development will be required to dedicate land, pay in-lieu fees or otherwise contribute a fair share to the acquisition and development of parks and recreation facilities (Policy ERC 2.2.5). Impacts were considered less than significant after application of the applicable policies. (Impacts 4.9-1 and 4.9-2).

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

The proposed project includes the construction of 48 single-family townhomes. As shown in Figure 3, the proposed project would not include recreational facilities on-site for future residences. Therefore, as the proposed project would induce population growth, future residents of the proposed project are anticipated to use recreation facilities in the surrounding area.

According to the General Plan Master EIR, implementation of the policies and goals within the General Plan would reduce impacts to parks and recreational facilities to a less-than-significant level. For example, Policy

ERC 2.2.1 states that all new development shall be consistent with the applicable provisions of the Parks and Recreation Master Plan. In addition, because the proposed project is consistent with the 2035 General Plan, the increased population associated with the proposed project and increase in demand for recreational facilities was anticipated and analyzed within the 2035 General Plan Master EIR. Furthermore, pursuant to City Code 18.56.230, the proposed project would be required to pay a Park Development Impact Fee prior to issuance of a building permit. The City would use the Park Development Impact Fee to finance the design, construction, installation, improvement, and acquisition of park facilities for neighborhood parks within two miles of the development project, community parks within five miles of the development project, and regional and citywide park facilities located anywhere in the City.

Based on the above, given the project consistency with the Parks and Recreation Master Plan and the City's General Plan, and the required payment of the Park Development Impact Fee, implementation of the proposed project would result in ***no additional environmental effect*** related to recreation beyond what was analyzed in the 2035 Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

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

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

ENVIRONMENTAL SETTING

The following section is based on information from the City of Sacramento 2035 General Plan, the 2035 General Plan Master EIR, and the Norwood Townhomes VMT Analysis Memo prepared for the proposed project by TJKM (see Appendix F).

Roadways in the project vicinity include Norwood Avenue to the west and Main Avenue to the north. Norwood Avenue is a two-lane arterial roadway with a 25 miles per hour (mph) posted speed limit and a one-way, left-turn lane where the road intersects with Main Avenue in the vicinity of the project site. Where Main Avenue intersects with Norwood Avenue to the northwest of the project site, Main Avenue transitions from a four-lane arterial roadway to the west of Norwood Avenue, into a two-lane major collector roadway with a posted speed limit of 40 mph. Both the west- and east-bound lanes of Main Avenue have dedicated right and left turning lanes where the road intersects with Norwood Avenue. Interstate 5 (I-5) is located approximately four miles west of the project site and I-80 is located approximately one mile south of the project site.

In the vicinity of the project site, continuous sidewalks exist along the western side of Norwood Avenue and along the northern side of Main Avenue. Norwood Avenue also includes a bike lane and a lane for on-street parking along its western side. Sidewalks and bike lanes do not currently exist along the project frontage. It is noted that, pursuant to the Sacramento Bike Master Plan, a bike lane is planned along Main Avenue.[21]

Public transit service in the project area is provided by bus, which is operated by the Sacramento Regional Transit (RT). Route 19 provides service on Norwood Avenue. The route features a bus stop at the intersection of Norwood Avenue and Bell Avenue, located approximately 0.4-mile south of the project site. The route begins at Watt Avenue and Elverta Road and the last stop is at Arden Way and Del Paso Boulevard. Monday through Friday, Route 19 operates from 5:50 AM to 8:38 PM. On Saturdays and Sundays, Route 19 operates from 7:05 AM to 6:53 PM.

[21] City of Sacramento. *City of Sacramento Bicycle Master Plan* [pg. 42]. August 2016.

STANDARDS OF SIGNIFICANCE

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, with other relevant considerations consisting of the effects of the project on transit and non-motorized travel. VMT is the total miles of travel by personal motorized vehicles a project is expected to generate in a day. VMT measures the full distance of personal motorized vehicle-trips, with one end within the project site. Based on current practices from the City of Sacramento for residential projects, transportation impacts for CEQA purposes are considered significant if the proposed project would generate Household VMT per capita figures that exceed 85 percent of the regional average for Household VMT per capita, consistent with technical advisory guidance published by the Governor's Office of Planning and Research (OPR) in 2018.

Several screening thresholds are used to quickly determine whether a project may be presumed to have a less-than-significant VMT impact without conducting a detailed project generated VMT analysis. For residential projects, screening criteria includes:

1. Small Projects – projects that generate or attract fewer than 110 trips per day;
2. Map-Based Screening – projects located in areas that are known to generate below-average VMT;
3. Near Transit Stations – projects within 0.5-mile of an existing major transit stop or an existing stop along a high-quality transit corridor; or
4. Affordable Residential Development – projects that include affordable housing within an infill location.

Lastly, for purposes of this IS, impacts resulting from changes in transportation or circulation may be considered significant if construction and/or implementation of the proposed project would result in the following impacts that remain significant after implementation of General Plan policies or mitigation from the General Plan Master EIR:

Transit

- Adversely affect public transit operations; or
- Fail to adequately provide for access to public transit.

Bicycle Facilities

- Adversely affect bicycle travel, bicycle paths; or
- Fail to adequately provide for access by bicycle.

Pedestrian Circulation

- Adversely affect pedestrian travel, pedestrian paths; or
- Fail to adequately provide for access by pedestrians.

Construction-Related Traffic Impacts

- Degrade an intersection or roadway to an unacceptable level;
- Cause inconveniences to motorists due to prolonged road closures; or
- Result in an increased frequency of potential conflicts between vehicles, pedestrians, and bicyclists.

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

Transportation and circulation were discussed in the Master EIR in Chapter 4.12. Various modes of travel were included in the analysis, including vehicular, transit, bicycle, pedestrian and aviation components.

Provisions of the 2035 General Plan that provide substantial guidance include Mobility Goal 1.1, calling for a transportation system that is effectively planned, managed, operated and maintained, promotion of multimodal choices (Policy M 1.2.1), support for state highway expansion and management consistent with the Sacramento Area Council of Governments Metropolitan Transportation Plan/Sustainable Communities Strategy (SACOG MTP/SCS) (Policy M 1.5.6) and development that encourages walking and biking (Policy LU 4.2.1).

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

ANSWERS TO CHECKLIST QUESTIONS

Question A

The following analysis provides a summary of the project trip generation and distribution, and impacts to transit, bicycle, and pedestrian facilities.

Project Trip Generation and Distribution

The proposed project is consistent with the land use designation for the site in the 2035 General Plan. As such, the Master EIR included an analysis of the increase in traffic associated with buildout of the project site. The proposed project would not increase traffic volumes from what has been anticipated in the 2035 General Plan. Therefore, the proposed project would not conflict with a program plan, ordinance or policy addressing the circulation system beyond what has been anticipated by the City per the Master EIR, and a less-than-significant impact would occur.

Transit, Bicycle, and Pedestrian Facilities

As stated above, Sacramento RT Route 19 provides transit opportunities from the project site, and the project is consistent with the General Plan land use and zoning designations for the project site. The project would not add noticeable transit demand; however, any demand added to the transit system could be adequately accommodated by the existing/planned transit system and has been anticipated in the 2035 General Plan and Master EIR. Additionally, the proposed project would not result in removal of any existing bicycle or pedestrian facilities or preclude the implementation of any proposed or existing off-street trails in the vicinity of the project. In fact, the proposed project would include new bike lanes and sidewalks along Norwood Avenue and Main Avenue on the project site frontage. The bike lanes have been anticipated in the Sacramento Bicycle Master Plan. As such, the proposed project would not conflict with a program plan, ordinance or policy addressing roadway, bicycle, and pedestrian facilities beyond what has been anticipated by the City per the Master EIR, and a less-than-significant impact would occur.

Conclusion

Based on the above, the proposed project would not conflict with a program, plan, ordinance, or policy address the circulation system, including transit, roadway, bicycle, and pedestrian facilities. Therefore, implementation of the proposed project would result in ***no additional environmental effects*** beyond what was analyzed in the 2035 Master EIR.

Question B

Pursuant to SB 743 and technical guidance published by OPR, several screening procedures exist to potentially streamline project analysis. A VMT Analysis Memo was prepared for the proposed project by TJKM. The VMT Analysis Memo determined that the proposed project does not qualify for Map-Based Screening because the screening map shows that the project site is in a zone with higher VMT per capita

than the 85 percent threshold of significance. Thus, a SACSIM model was conducted pursuant to and consistent with the City Transportation Impact Analysis Guidelines. VMT impacts are considered significant if daily VMT exceeds 15.0 VMT per resident for the base year, which is 15 percent below the regional average. According to the SACSIM model, with the project's proposed 48 households added to traffic analysis zone (TAZ) #238, the site location in the model, for the 2016 model base year, the existing plus project VMT per capita was determined to be 14.80, which would be below the applicable VMT threshold of significance of 15.0.

Based on the above, the proposed project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b), and implementation of the proposed project would result in ***no additional environmental effects*** beyond what was analyzed in the 2035 Master EIR.

Question C

Access would be provided by way of two new entrances/exits to/from Norwood Avenue (refer to Figure 3). Internal circulation would be provided by a 26-foot-wide roadway, as well as a network of alleyways. While the proposed project would include roadway improvements, including the widening of both Norwood Avenue and Main Avenue, new crosswalks, and sidewalks, such improvements would benefit the area's safety. Such improvements would be designed in compliance with City design and roadway standards, which would ensure that the project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment), and implementation of the project would result in ***no additional environmental effects*** beyond what was analyzed in the 2035 Master EIR.

Question D

The proposed project would be required to comply with all building, fire, and safety codes and specific development plans would be subject to review and approval by the City's Public Works Department and the SFD. Required review by the aforementioned departments would ensure that the proposed circulation system for the project site would provide adequate emergency access. In addition, Section 12.20.030 of the Sacramento City Code requires that a construction traffic control plan be prepared and approved prior to the beginning of project construction, to the satisfaction of the City Traffic Engineer and subject to review by all affected agencies. All work performed during construction must conform to the conditions and requirements of the approved plan. The plan would ensure that safe and efficient movement of traffic through the construction work zone(s) is maintained. At a minimum, the plan must include the following:

- Time and day of street closures;
- Proper advance warning and posted signage regarding street closures;
- Provision of driveway access plan to ensure safe vehicular, pedestrian, and bicycle movements;
- Safe and efficient access routes for emergency vehicles;
- Provisions for pedestrian safety;
- Use of manual traffic control when necessary;
- Number of anticipated truck trips, and time of day of arrival and departure of trucks;
- Provision of a truck circulation pattern and staging area with a limitation on the number of trucks that can be waiting and any limitations on the size and type of trucks appropriate for the surrounding transportation network; and
- The plan must be available at the site for inspection by the City representative during all work.

With implementation of the aforementioned traffic control plan, local roadways and freeway facilities would continue to operate at acceptable operating conditions during construction, and the proposed project would not result in inadequate emergency access to the project site. Therefore, the implementation of the project would result in ***no additional environmental effects*** beyond what was analyzed in the 2035 Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

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

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

ENVIRONMENTAL AND REGULATORY SETTING

Please reference the Cultural Resources Chapter of the Master EIR for the Ethnohistory of the historic indigenous groups that occupied the region. This section focuses on the contemporary tribal communities and tribal cultural resources as they pertain to AB 52.

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

The unanticipated find of Native American human remains would also be considered a tribal cultural resource, and are therefore analyzed in this section.

The proposed project area is situated within the lands traditionally occupied by the Valley Nisenan, or Southern Maidu. Many descendants of Valley Nisenan throughout the larger Sacramento region belong to the United Auburn Indian Community, Shingle Springs, Ione Band, Colfax-Todds Valley, and Wilton Rancheria Tribes. The Tribes actively participate in the identification, evaluation, preservation, and restoration of tribal cultural resources.

Data Sources and Methodology

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

A search of the Sacred Lands File was requested from the NAHC, and a response was received on February 4, 2022 indicating that Sacred Sites have not been identified within the project vicinity. Pursuant to AB 52, project notification letters were distributed to the appropriate tribes on on December 7, 2021, formal invitations to participate in AB 52 consultation on the proposed project were sent by the City to four tribes that have previously requested to receive notifications of proposed projects. These representatives included:

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

United Auburn Indian Community requested consultation on December 23, 2021. The consultation request was closed on July 28, 2022, with the stipulation that an unanticipated discovery mitigation measure would be included in the environmental document. Wilton Rancheria and Shingle Spring Band of Miwok Indians did not request a consultation within the 30-day period. Buena Vista Band of Me-Wuk Indians declined consultation on this project.

Federal Regulations

Federal plans, policies, or regulations related to tribal cultural resources that are directly applicable to the proposed project do not exist. However, Section 106 of the National Historic Preservation Act does require consultation with Native Americans to identify and consider certain types of cultural resources. Cultural resources of Native American origin identified as a result of the identification efforts conducted under Section 106 may also qualify as tribal cultural resources under CEQA.

State Regulations

- **California Environmental Quality Act:** CEQA requires that public agencies that finance or approve public or private projects must assess the effects of the project on tribal cultural resources. Tribal cultural resources are defined in PRC 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe that is (1) listed or determined eligible for listing on the California Register of Historical Resources (CRHR) or a local register, or (2) that are determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1. In applying the criteria set forth in subdivision (c) of PRC Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.
- **California PRC Section 5024:** PRC Section 5024.1 establishes the CRHR, which is the authoritative guide for identifying the State's historical resources to indicate what properties are to be protected, if feasible, from substantial adverse change. For a resource to be eligible for the CRHR, it must be more than 50 years old, retain its historic integrity, and satisfy one or more of the following criteria:

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

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

STANDARDS OF SIGNIFICANCE

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

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

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

The Master EIR evaluated the potential effects of development under the 2035 General Plan on prehistoric and historic resources (see Master EIR Chapter 4.4 and Appendix C – Background Report, B. Cultural Resources Appendix), but did not specifically address tribal cultural resources because that resource type had not yet been defined in CEQA at the time the Master EIR was adopted. The Master EIR identified significant and unavoidable effects on historic resources and archaeological resources, some of which could be tribal cultural resources as defined PRC Section 21074. Ground-disturbing activities resulting from implementation of development under the 2035 General Plan could affect the integrity of an archaeological site (which may be a tribal cultural resource), thereby causing a substantial change in the significance of the resource. General plan policies identified as reducing such effects on cultural resources that may also be tribal cultural resources include identification of resources on project sites (Policy HCR 2.1.1); implementation of applicable laws and regulations (Policy HCR 2.1.2); consultation with appropriate organizations and individuals including the Native American Heritage Commission and implementation of their consultation guidelines (Policy HCR 2.1.3); enforcement programs to promote the maintenance, rehabilitation, preservation, and interpretation of the City's historic resources (Policy HCR 2.1.4); listing of qualified historic resources under appropriate national, State, and local registers (Policy HCR 2.1.5); consideration of historic and cultural resources in planning studies (Policy HCR 2.1.6); enforcement of compliance with local, State, and federal historic and cultural preservation requirements (Policy HCR 2.1.8); and early consultation with owners and land developers to minimize effects (Policy HCR 2.1.10).

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

ANSWERS TO CHECKLIST QUESTIONS

<u>Questions A)i and A)ii</u>

As discussed in Section 4, Cultural Resources, of this IS, the approximately 3.7-acre project site is undeveloped. Given that the project site has been previously disturbed through grading and regular disking, and the off-site improvement areas are paved roadways, surface tribal cultural resources are not anticipated to be found on- or off-site during grading and construction activities. However, due to the predominant historic theme of the region as a whole, which includes thousands of years of occupation by Native American groups prior to non-Native peoples settling in the region, the possibility exists that unknown resources could be encountered during grading and excavation activities associated with development of the project. Therefore, the proposed project could have a potentially significant impact related to damaging or destroying prehistoric

cultural resources. However, with implementation of Mitigation Measures 14-1 through 14-4, the ***effect can be mitigated to less than significant***.

MITIGATION MEASURES

Implementation of the following mitigation measures would reduce impacts related to tribal cultural resources to a *less-than-significant* level.

14-1 ***Conduct Cultural Resources Sensitivity and Awareness Training Prior to Ground-Disturbing Activities***

The City shall require the applicant/contractor to provide a cultural and tribal cultural resources sensitivity and awareness training program for all personnel involved in project construction, including field consultants and construction workers. The training will be developed in coordination with interested culturally affiliated Native American Tribes. The training will be conducted in coordination with qualified cultural resources specialists. The City may invite Native American Representatives from interested culturally affiliated Native American Tribes to participate. The training shall be conducted before any construction activities begins on the project site. The program will include relevant information regarding sensitive tribal cultural resources and archaeological resources, including applicable regulations, protocols for avoidance, and consequences of violating State laws and regulations.

The worker cultural resources sensitivity and awareness program will also describe appropriate avoidance and minimization measures for resources that have the potential to be located on the project site and will outline what to do and who to contact if any potential Tribal Cultural Resources or archaeological resources or artifacts are encountered.

The program will emphasize the requirement for confidentiality and culturally-appropriate treatment of any discovery of significance to Native Americans and will discuss appropriate behaviors and responsive actions, consistent with Native American Tribal values.

14-2 *Due to the cultural sensitivity of the project area, the following mitigation measure is intended to address the potential for buried Tribal Cultural Resources (TCRs) that may be unearthed during ground disturbing activities.*

A minimum of seven days prior to beginning earthwork, clearing and grubbing, or other soil disturbing activities, the applicant shall notify lead agency of the proposed earthwork start-date. The lead agency shall contact the consulting Native American tribes (Tribes) with the proposed earthwork start-date and a Tribal Representative or Tribal Monitor shall be invited to inspect the project site, including any soil piles, trenches, or other disturbed areas, within the first five days of groundbreaking activity, or as appropriate for the type and size of project. During this inspection, a Tribal Representative or Tribal Monitor may provide an on-site meeting for construction personnel information on TCRs and workers awareness brochure.

If any TCRs are encountered during this initial inspection, or during any subsequent construction activities, work shall be suspended within 100 feet of the find and the measures included in the ***Inadvertent/Unanticipated Discoveries Mitigation Measure [MM 14-3]*** *shall be implemented.*

Preservation in place is the preferred alternative under CEQA and every effort must be made to preserve the resources in place, including through project redesign.

The contractor shall implement any measures deemed by CEQA lead agency (The City) to be necessary and feasible to preserve in place, avoid, or minimize significant effects to the resources, including the use of a paid Native American Monitor during ground disturbing activities.

14-3 ***In the Event that Tribal Cultural Resources are Discovered During Construction, Implement Procedures to Evaluate Tribal Cultural Resources and Implement Avoidance and Minimization Measures to Avoid Significant Impact.***

If archaeological resources, or tribal cultural resources, are encountered in the project area during construction, the following performance standards shall be met prior to continuance of construction and associated activities that may result in damage to or destruction of tribal cultural resources:

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

If a tribal cultural resource is determined to be eligible for listing on the CRHR, the City will avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. If the City determines that the project may cause a significant impact to a tribal cultural resource, and measures are not otherwise identified in the consultation process, the following are examples of mitigation capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to the resource. These measures may be considered to avoid or minimize significant adverse impacts and constitute the standard by which an impact conclusion of less-than significant may be reached:

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

Avoidance and preservation in place is the preferred manner of mitigating impacts to tribal cultural resources and archaeological resources and will be accomplished, if feasible, by several alternative means, including:

- *Planning construction to avoid tribal cultural resources, archaeological sites and/or other resources; incorporating sites within parks, green-space or other open space; covering archaeological sites; deeding a site to a permanent conservation*

easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity.

- *Recommendations for avoidance of tribal cultural resources and Native American archaeological sites will be reviewed by the City representative, interested culturally affiliated Native American Tribes and other appropriate agencies, in light of factors such as costs, logistics, feasibility, design, technology and social, cultural and environmental considerations, and the extent to which avoidance is consistent with project objectives. Avoidance and design alternatives may include realignment within the project area to avoid cultural resources, modification of the design to eliminate or reduce impacts to cultural resources or modification or realignment to avoid highly significant features within a cultural resource.*
- *Native American Representatives from interested culturally affiliated Native American Tribes will be allowed to review and comment on these analyses and shall have the opportunity to meet with the City representative and its representatives who have technical expertise to identify and recommend feasible avoidance and design alternatives, so that appropriate and feasible avoidance and design alternatives can be identified.*
- *If the discovered resource can be avoided, the construction contractor(s), will install protective fencing outside the site boundary, including a 100-foot buffer area, before construction restarts. The boundary of a tribal cultural resource or a Native American archaeological site will be determined in consultation with interested culturally affiliated Native American Tribes and such Tribes will be invited to monitor the installation of fencing. Use of temporary and permanent forms of protective fencing will be determined in consultation with Native American Representatives from interested culturally affiliated Native American Tribes.*
- *The construction contractor(s) will maintain the protective fencing throughout construction to avoid the site during all remaining phases of construction. The area will be demarcated as an "Environmentally Sensitive Area".*
- *Native American Representatives from interested culturally affiliated Native American Tribes and the City representative will also consult to develop measures for long term management of any discovered tribal cultural resources. Consultation will be limited to actions consistent with the jurisdiction of the City and taking into account ownership of the subject property. To the extent that the City has jurisdiction, routine operation and maintenance within tribal cultural resources retaining tribal cultural integrity shall be consistent with the avoidance and minimization standards identified in this mitigation measure.*

To implement these avoidance and minimization standards, the following procedures shall be followed in the event of the discovery of a tribal cultural resource:

- *If any tribal archaeological resources or Native American materials, such as structural features, unusual amounts of bone or shell, artifacts, human remains, or Native American architectural remains or articulated or disarticulated human remains are discovered on the project site, work shall be suspended within 100 feet of the find (based on the apparent distribution of cultural resources),and the construction contractor shall immediately notify the project's City representative.*
- *The City shall coordinate the investigation of the find with a qualified (meeting the Secretary of the Interior's Qualification Standards for Archaeology) archaeologist approved by the City and with one or more interested culturally affiliated Native American Tribes that respond to the City's invitation. As part of the site investigation and resource assessment, the City and the archaeologist shall consult with interested culturally affiliated Native American Tribes to assess the significance of the find, make recommendations for further evaluation and treatment as necessary and provide proper management recommendations should potential impacts to the resources be determined by the City to be*

significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to the City representative by the qualified archaeologist. These recommendations will be documented in the project record. For any recommendations made by interested culturally affiliated Native American Tribes which are not implemented, a justification for why the recommendation was not followed will be provided in the project record.

- *The City shall consider management recommendations for tribal cultural resources, including Native American archaeological resources, that are deemed appropriate, including resource avoidance or, where avoidance is infeasible in light of project design or layout or is unnecessary to avoid significant effects, preservation in place or other measures. The contractor shall implement any measures deemed by the City to be necessary and feasible to avoid or minimize significant impacts to the cultural resources. These measures may include inviting an interested culturally affiliated Native American Tribe to monitor ground-disturbing activities whenever work is occurring within 100 feet of the location of a discovered tribal cultural resource or Native American archaeological site.*
- *If an adverse impact to tribal cultural resources, including Native American archaeological resources, occurs then consultation with interested culturally affiliated Tribes regarding mitigation contained in the Public Resources Code sections 21084.3(a) and (b) and CEQA Guidelines section 15370 shall occur, in order to identify mitigation for the impact.*

14-4 ***Implement Procedures in the Event of the Inadvertent Discovery of Native American Human Remains.***

If an inadvertent discovery of Native American human remains is made at any time during project-related construction activities or project planning, the City will implement the procedures listed above in Mitigation Measure 14-2. The following performance standards shall be met prior to implementing or continuing actions such as construction, that may result in damage to or destruction of human remains: In accordance with the California Health and Safety Code, if human remains are encountered during ground-disturbing activities, the City shall immediately halt potentially damaging excavation in the area of the burial and notify the Sacramento County Coroner and a professional archaeologist to determine the nature of the remains. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (California Health and Safety Code Section 7050.5[b]). If the Coroner determines that the remains are those of a Native American, he or she must contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (California Health and Safety Code Section 7050[c]). After the Coroner's findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant (MLD), in consultation with the landowner, shall determine the ultimate treatment and disposition of the remains. The responsibilities of the City for acting upon notification of a discovery of Native American human remains are identified in California PRC Section 5097.9 et seq.

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

FINDINGS

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

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

ENVIRONMENTAL SETTING

The project site is currently undeveloped and, therefore, is not connected to existing utilities and service systems. The project site is located adjacent to existing development, including multiple single-family subdivisions. Therefore, utility infrastructure exists in the project vicinity. The existing utilities and service systems in the project vicinity are discussed below.

Wastewater

Wastewater collection and treatment services for the proposed project would be provided by the City of Sacramento DOU and the SRCSD. Wastewater generated from the project area is collected in the City's separated sewer system through a series of sewer pipes and flows into the SRCSD interceptor system, where the sewage is conveyed to the SRWWTP located near Elk Grove. The City's DOU is responsible for providing and maintaining the majority of the water, sewer collection, storm drainage, and flood control services for residents and businesses within City limits.

Water Supply

The City uses surface water from the Sacramento and American rivers to meet the majority of its water demands. To meet the City's water demand, the City uses surface water from the Sacramento and American rivers, and groundwater pumped from the North American and South American Subbasins. According to the City's 2015 Urban Water Management Plan (UWMP), the City has a current total of 275,917 acre-feet per year (AFY) in water supplies during dry years and expects the total to increase to 294,419 AFY by 2035. The total City retail water demand in 2015 was 84,832 AFY and is expected to increase to 149,213 AFY in 2035. According to the DOU's 2019 Consumer Confidence Report, the City's drinking water meets or exceeds all federal and State drinking water standards.[22]

Solid Waste Disposal

The City of Sacramento does not provide commercial solid waste collection services. Rather, commercial garbage, recycling, and yard waste services are provided by a franchised hauler authorized by the Sacramento Solid Waste Authority to collect commercial garbage and commingled recycling within the City. The Sacramento County Kiefer Landfill, located at 12701 Kiefer Boulevard in Sloughhouse, California, is the primary location for the disposal of waste for the City. According to the Master EIR, the Kiefer Landfill should serve the City adequately until the year 2065. As growth continues in the City, in accordance with the County General Plan and the City's General Plan, population would increase and the solid waste stream would continue to grow. However, implementation of the Solid Waste Authority and the Sacramento

[22] City of Sacramento Department of Utilities. *2019 Consumer Confidence Report*. Available at: https://www.cityofsacramento.org/-/media/Water-Quality/CCR_web_r071020.pdf?la=en. Accessed January 2022.

recycling requirements, would continue to significantly reduce potential cumulative impact on landfill capacity to a less-than-significant effect.

STANDARDS OF SIGNIFICANCE

For the purposes of this Initial Study, an impact would be considered significant if the project resulted in the following:

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

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

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

The Master EIR evaluated the impacts of increased demand for water that would occur with development under the 2035 General Plan. Policies in the general plan would reduce the impact generally to a less-than-significant level (see Impact 4.11-1) but the need for new water supply facilities results in a significant and unavoidable effect (Impact 4.11-2). The potential need for expansion of wastewater treatment facilities was identified as having a significant and unavoidable effect (Impacts 4.11-4, 4.11-5). Impacts on solid waste facilities were less than significant (Impacts 4.11-7, 4.11-8).

ANSWERS TO CHECKLIST QUESTIONS

Questions A and B

The proposed project would connect to the existing water and sewer lines adjacent to the site. All proposed infrastructure would be sized and designed in accordance with all applicable standards and regulations. Physical impacts associated with installation of such infrastructure are addressed throughout this IS. The project's effects on the capacity of the existing systems and services are discussed below.

Wastewater

As discussed above, the proposed project would be provided wastewater collection and treatment services by the City of Sacramento Department of Utilities and the SRCSD. The project site is located within sewer basin 87. Wastewater generated by the proposed project would be collected in the City's system. Each building on each lot would be required to have a separate connection to the sewer system. Multiple buildings located within a single parcel must have a separate connection to the public sewer line. Once collected, the sewage would flow into the SRCSD interceptor system, where the sewage would be conveyed to the SRWWTP.

Based on an average wastewater generation rate of 310 gallons per day per unit, the proposed project is anticipated to generate approximately 14,880 gallons per day, or 0.02 million gallons per day (mgd). The existing permitted capacity at the SRWWTP is 181 mgd.[23] Per the SRWWTP's NPDES Permit (No. CA0077682), adopted in April of 2016, the average dry weather flow at that time was approximately 120 mgd.[24] Therefore, adequate capacity exists to treat the additional 0.02 mgd of wastewater that would be generated by the proposed project.

[23] Sacramento Regional Community Services District. *Final Executive Summary: Sacramento Regional Wastewater Treatment Plant* [pg 7]. May 2008.

[24] California Regional Water Quality Control Board, Central Valley Region. *Order No. R5-2016-0020-01 NPDES No. CA0077682* [pg I-7]. April 2016.

Furthermore, the project's consistency with the General Plan land use designation would ensure that the demand for wastewater service would not exceed the amount anticipated for buildout of the Planning Area evaluated in the Master EIR. In addition, buildout capacity of the entire City service area was anticipated in the 2018 Sewer System Management Plan (SSMP).[25] As such, the City has anticipated the need for wastewater services in the project area and requires development impact fees to support buildout demand of their service area (including the project site). Additionally, the SRCSD would require payment of sewer impact fees. All applicable impact fees would be required to be paid prior to issuance of a building permit.

Given the required payment of applicable impact fees, the SRCSD would be able to provide sufficient wastewater services and conveyance to serve full buildout of the City, including the project site, per the Master EIR. Therefore, adequate capacity exists to serve the project site's demands.

Water Supply

The City is responsible for providing and maintaining water service for the project site. The 2015 UWMP analyzed the water supply, water demand, and water shortage contingency planning for the City's service area, which would include the project site. According to the 2015 UWMP, under all drought conditions, the City possesses sufficient water supply entitlements to meet the demands of the City's customers up to the year 2035.[26]

According to the 2015 UWMP, to obtain population projections for the year 2040, an assumption of a continued growth rate within the current service area and sphere of influence, consistent with the General Plan, was used. As a result, the population growth associated with development of the site with residential uses was accounted for in the regional growth estimates. Thus, the population growth associated with implementation of the proposed project was included within the growth projections evaluated in the 2015 UWMP.

As such, adequate capacity is expected to be available to serve the proposed project's water demands. The proposed project is consistent with land use and zoning designations and would not generate an increase in demand from what has already been anticipated in the Master EIR. As such, adequate capacity is expected to be available to serve the proposed project's water demands.

Solid Waste

Solid waste collected at residential uses in the area is currently disposed of at the Kiefer Landfill. Kiefer Landfill, located at 12701 Kiefer Boulevard in Sloughhouse, California, is the primary location for the disposal of waste by the City. According to the Master EIR, the landfill is permitted to accept up to 10,815 tons per day and the current peak and average daily disposal is substantially lower than the permitted amount. The landfill is anticipated to be capable of adequately serving the area, including the anticipated population growth, until the year 2065.

According to the CalRecycle Jurisdiction Diversion/Disposal Rate Summary for Sacramento, the most recently approved (2015) annual per capita disposal rate is 5.8 pounds per day per resident.[27] Based on the average household size as given in the City's 2035 Housing Element, the proposed project would house approximately 130 future residents (2.7 people per household X 48 units). Operation of the proposed project would generate approximately 754 pounds of waste per day (0.37 tons). Operational waste generation of 0.37 tons per day would equal less than 0.01 percent of the Kiefer Landfill's remaining daily capacity. Therefore, the proposed project's operational waste generation could be accommodated by the existing capacity of the Kiefer Landfill.

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[25] Sacramento Area Sewer District. *Sewer System Management Plan.* June 8, 2018.

[26] City of Sacramento. *2015 Urban Water Management Plan*. Available at: https://www.cityofsacramento.org/-/media/Corporate/Files/DOU/Reports/City-of-Sacramento-Final-2015-UWMP-June-2016.pdf?la=en. Accessed January 2022.

[27] CalRecycle. *Jurisdiction Diversion/Disposal Rate Summary (2007 – Current).* Available at: https://www2.calrecycle.ca.gov/LGCentral/DiversionProgram/JurisdictionDiversionPost2006. Accessed July 2021.

Conclusion

Because adequate capacity exists to serve the project's demands in addition to existing commitments, and construction of new utilities or expansion of existing facilities would not be required, implementation of the proposed project would result in ***no additional environmental effects*** beyond what was analyzed in the 2035 Master EIR.

MITIGATION MEASURES

None required.

FINDINGS

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

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

ANSWERS TO CHECKLIST QUESTIONS

Question A

Implementation of the proposed project would have the potential to adversely impact special-status animals and previously undiscovered cultural, tribal cultural resources, and/or human remains. The proposed project would implement and comply with applicable Sacramento 2035 General Plan policies, as discussed throughout this IS. With implementation of the mitigation measures required by this IS, compliance with 2035 General Plan policies, and application of standard BMPs during construction, development of the proposed project would not result in any of the following: 1) degrade the quality of the environment; 2) substantially reduce or impact the habitat of fish or wildlife species; 3) cause fish or wildlife populations to drop below self-sustaining levels; 4) threaten to eliminate a plant or animal community; 5) reduce the number or restrict the range of a rare or endangered plant or animal; or 6) eliminate important examples of the major periods of California history or prehistory. Therefore, with implementation of the mitigation measures included in this IS, the ***effect can be mitigated to less than significant.***

Question B

The proposed project is an allowed use under the project site's General Plan land use designation, and the population growth associated with development of the proposed project was accounted for in the regional population growth projection evaluated in the City's 2035 General Plan EIR. Thus, the population growth associated with development of the project was included in the cumulative analysis of City buildout in the Master EIR. Applicable policies from the 2035 General Plan would be implemented as part of the proposed project, as well as the project-specific mitigation measures included in this IS, to reduce the proposed project's contribution to potentially cumulative impacts. The potential impacts of the proposed project would be individually limited and would not be cumulatively considerable. As demonstrated in this IS, all potential environmental impacts that could occur as a result of project implementation would be reduced to a less-than-significant level with implementation of project-specific mitigation measures and compliance with

applicable 2035 General Plan policies. When viewed in conjunction with other closely related past, present or reasonably foreseeable future projects, development of the proposed project would not contribute to cumulative impacts in the City. Therefore, with implementation of the mitigation measures included in this IS, the ***effect can be mitigated to less than significant.***

Question C

Implementation of the proposed project could result in temporary impacts related to hazards during the construction period. The proposed project would be required to implement the project-specific mitigation measures within this IS, as well as applicable policies of the 2035 General Plan, to reduce any potential direct or indirect impacts that could occur to human beings or various resources and, as demonstrated in this IS, with implementation of the identified mitigation measures, all impacts would be reduced to less-than-significant levels. Therefore, with implementation of the mitigation measures included in this IS, the ***effect can be mitigated to less than significant.***

SECTION IV - ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

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

	Aesthetics		Hydrology and Water Quality
X	Air Quality		Noise
X	Biological Resources		Public Services
X	Cultural Resources		Recreation
	Energy		Transportation and Circulation
X	Geology and Soils	X	Tribal Cultural Resources
X	Hazards		Utilities and Service Systems
	None Identified		

SECTION V - DETERMINATION

On the basis of the initial study:

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

Ron Bess

Signature

August 29, 2022

Date

Ron Bess, Associate Planner

Printed Name

REFERENCES CITED

It should be noted that all of the technical reports used for the purposes of the analysis throughout this IS are attached as appendices to this IS and are available on the City's website at https://www.cityofsacramento.org/Community-Development/Planning/Environmental/ Impact-Reports. The following documents are referenced information sources used for the analysis within this Initial Study:

1. Analytical Environmental Services. *Phase I Environmental Site Assessment for Demmon Partners 2450 Natomas Park Drive*. January 2021.
2. Baker Williams Engineering Group. *Technical Memorandum: Norwood Avenue Townhomes, Description of Proposed Drainage System.* May 4, 2022.
3. California Department of Conservation. *California Important Farmland Finder*. Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed January 2022.
4. California Department of Transportation. *California Scenic Highway Mapping System, Sacramento County*. Available at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed March 2022.
5. California Department of Transportation. *Transportation and Construction Vibration Guidance Manual*. September 2013.
6. California Regional Water Quality Control Board, Central Valley Region. *Order No. R5-2016-0020-01 NPDES No. CA0077682*. April 2016.
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8. California Tree and Landscape Consulting, Inc. *Pre-Development Report and Tree Inventory.* April 2021.
9. City of Sacramento. *City of Sacramento Bicycle Master Plan*. August 2016.
10. City of Sacramento Department of Utilities. *2019 Consumer Confidence Report*. Available at: https://www.cityofsacramento.org/-/media/Water-Quality/CCR_web_r071020.pdf?la=en. Accessed January 2022.
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14. National Wetlands Inventory. *Wetlands Mapper*. Available at: https://www.fws.gov/wetlands/data/mapper.html. Accessed January 2022.
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16. Regas Group Environmental Consultants. *Asbestos Inspection and Report*. June 4, 2021.
17. Regional San. *Impact Fees*. Available at: https://www.regionalsan.com/impact-fees-businesses. Accessed January 2022.
18. Robla School District. *About the District*. Available at: https://www.robla.k12.ca.us/apps/pages/index.jsp?uREC_ID=568832&type=d&pREC_ID=1065810. Accessed January 2022.
19. Sacramento Area Sewer District. *Sewer Ordinance SDI-0072*. Effective May 27, 2016.
20. Sacramento Area Sewer District. *Sewer System Management Plan*. June 8, 2018.
21. Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment, Chapter 4: Operational Criteria Air Pollutant and Precursor Emissions*. June 2020.

22. Sacramento Metropolitan Air Quality Management District. *SMAQMD Operational Screening Levels*. April 2018.
23. Sacramento Regional Community Services District. *Final Executive Summary: Sacramento Regional Wastewater Treatment Plant*. May 2008.
24. Salix Consulting Inc. *Biological Resources Assessment for the Norwood Avenue Townhomes Study Area.* August 2021.
25. Salix Consulting Inc. *Aquatic Resources Delineation for the Norwood Avenue Townhomes Study Area.* August 2021.
26. Twin Rivers Unified School District. *About*. Available at: https://www.twinriversusd.org/About/index.html. Accessed January 2022.
27. U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.
28. U.S. Department of Agriculture. *Natural Resources Conservation Science*. Available at: https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx. Accessed January 2022.

APPENDIX A
AIR QUALITY AND GHG MODELING RESULTS

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

Norwood Townhomes

Sacramento Metropolitan AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	48.00	Dwelling Unit	3.70	48,000.00	128

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.5	**Precipitation Freq (Days)**	58
Climate Zone	6			**Operational Year**	2024
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage based on site plan for the proposed project.

Construction Phase - Grading phase adjusted based on AQ questionnaire. Architectural coating assumed to start two weeks after the initiation of building construction, and last for the same duration.

Grading -

Mobile Land Use Mitigation - Information based on applicant provided AQ questionnaire.

Area Mitigation - Information based on applicant provided AQ questionnaire.

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	230.00
tblConstructionPhase	PhaseEndDate	6/19/2023	6/14/2023

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

tblConstructionPhase	PhaseEndDate	5/30/2024	7/10/2023
tblConstructionPhase	PhaseEndDate	5/6/2024	5/27/2024
tblConstructionPhase	PhaseEndDate	6/25/2024	6/10/2024
tblConstructionPhase	PhaseStartDate	5/7/2024	6/15/2023
tblConstructionPhase	PhaseStartDate	6/20/2023	7/11/2023
tblConstructionPhase	PhaseStartDate	5/31/2024	7/25/2023
tblLandUse	LotAcreage	3.00	3.70

2.0 Emissions Summary

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Annual

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					
2023	0.2850	1.1790	1.3731	2.4200e-003	0.0895	0.0566	0.1461	0.0399	0.0534	0.0932	0.0000	210.3233	210.3233	0.0452	1.3200e-003	211.8461
2024	0.2464	0.7994	1.0147	1.7900e-003	0.0182	0.0362	0.0544	4.8600e-003	0.0343	0.0391	0.0000	155.4993	155.4993	0.0304	1.0600e-003	156.5759
Maximum	**0.2850**	**1.1790**	**1.3731**	**2.4200e-003**	**0.0895**	**0.0566**	**0.1461**	**0.0399**	**0.0534**	**0.0932**	**0.0000**	**210.3233**	**210.3233**	**0.0452**	**1.3200e-003**	**211.8461**

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					
2023	0.2850	1.1790	1.3731	2.4200e-003	0.0895	0.0566	0.1461	0.0399	0.0534	0.0932	0.0000	210.3230	210.3230	0.0452	1.3200e-003	211.8458
2024	0.2464	0.7994	1.0147	1.7900e-003	0.0182	0.0362	0.0544	4.8600e-003	0.0343	0.0391	0.0000	155.4992	155.4992	0.0304	1.0600e-003	156.5758
Maximum	**0.2850**	**1.1790**	**1.3731**	**2.4200e-003**	**0.0895**	**0.0566**	**0.1461**	**0.0399**	**0.0534**	**0.0932**	**0.0000**	**210.3230**	**210.3230**	**0.0452**	**1.3200e-003**	**211.8458**

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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2023**	**8-31-2023**	0.5763	0.5763
2	**9-1-2023**	**11-30-2023**	0.6670	0.6670
3	**12-1-2023**	**2-29-2024**	0.6423	0.6423
4	**3-1-2024**	**5-31-2024**	0.6142	0.6142
5	**6-1-2024**	**8-31-2024**	0.0144	0.0144
		Highest	0.6670	0.6670

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	0.2324	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
Energy	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	86.3459	86.3459	4.4300e-003	1.3100e-003	86.8473
Mobile	0.1705	0.2219	1.5634	3.2300e-003	0.3328	2.5800e-003	0.3353	0.0890	2.4100e-003	0.0914	0.0000	304.0004	304.0004	0.0208	0.0151	309.0157
Waste						0.0000	0.0000		0.0000	0.0000	4.4820	0.0000	4.4820	0.2649	0.0000	11.1041
Water						0.0000	0.0000		0.0000	0.0000	1.1065	3.6508	4.7572	4.1400e-003	2.4500e-003	5.5901
Total	**0.4078**	**0.2693**	**2.0759**	**3.5300e-003**	**0.3328**	**8.6900e-003**	**0.3415**	**0.0890**	**8.5200e-003**	**0.0975**	**5.5885**	**394.8057**	**400.3942**	**0.2951**	**0.0188**	**413.3851**

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2324	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
Energy	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	86.3459	86.3459	4.4300e-003	1.3100e-003	86.8473
Mobile	0.1641	0.2068	1.4582	2.9600e-003	0.3036	2.3800e-003	0.3060	0.0812	2.2200e-003	0.0834	0.0000	278.1622	278.1622	0.0197	0.0141	282.8480
Waste						0.0000	0.0000		0.0000	0.0000	4.4820	0.0000	4.4820	0.2649	0.0000	11.1041
Water						0.0000	0.0000		0.0000	0.0000	1.1065	3.4267	4.5331	4.1200e-003	2.4400e-003	5.3647
Total	**0.4014**	**0.2542**	**1.9707**	**3.2600e-003**	**0.3036**	**8.4900e-003**	**0.3121**	**0.0812**	**8.3300e-003**	**0.0895**	**5.5885**	**368.7433**	**374.3318**	**0.2939**	**0.0178**	**386.9921**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**1.58**	**5.61**	**5.07**	**7.65**	**8.76**	**2.30**	**8.60**	**8.77**	**2.23**	**8.20**	**0.00**	**6.60**	**6.51**	**0.40**	**5.36**	**6.38**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/7/2023	5	5	
2	Grading	Grading	6/8/2023	6/14/2023	5	5	
3	Building Construction	Building Construction	7/11/2023	5/27/2024	5	230	

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

4	Paving	Paving	6/15/2023	7/10/2023	5	18	
5	Architectural Coating	Architectural Coating	7/25/2023	6/10/2024	5	230	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 5

Acres of Paving: 0

Residential Indoor: 97,200; Residential Outdoor: 32,400; 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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 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					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**6.6500e-003**	**0.0688**	**0.0456**	**1.0000e-004**	**0.0491**	**3.1700e-003**	**0.0523**	**0.0253**	**2.9100e-003**	**0.0282**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

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

3.2 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	1.3000e-004	8.0000e-005	1.0500e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2651	0.2651	1.0000e-005	1.0000e-005	0.2676
Total	**1.3000e-004**	**8.0000e-005**	**1.0500e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2651**	**0.2651**	**1.0000e-005**	**1.0000e-005**	**0.2676**

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					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**6.6500e-003**	**0.0688**	**0.0456**	**1.0000e-004**	**0.0491**	**3.1700e-003**	**0.0523**	**0.0253**	**2.9100e-003**	**0.0282**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

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

3.2 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	1.3000e-004	8.0000e-005	1.0500e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2651	0.2651	1.0000e-005	1.0000e-005	0.2676
Total	**1.3000e-004**	**8.0000e-005**	**1.0500e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2651**	**0.2651**	**1.0000e-005**	**1.0000e-005**	**0.2676**

3.3 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					0.0177	0.0000	0.0177	8.5600e-003	0.0000	8.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2800e-003	0.0448	0.0369	7.0000e-005		1.9400e-003	1.9400e-003		1.7800e-003	1.7800e-003	0.0000	6.5152	6.5152	2.1100e-003	0.0000	6.5678
Total	**4.2800e-003**	**0.0448**	**0.0369**	**7.0000e-005**	**0.0177**	**1.9400e-003**	**0.0197**	**8.5600e-003**	**1.7800e-003**	**0.0103**	**0.0000**	**6.5152**	**6.5152**	**2.1100e-003**	**0.0000**	**6.5678**

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

3.3 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	8.7000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2209	0.2209	1.0000e-005	1.0000e-005	0.2230
Total	**1.1000e-004**	**7.0000e-005**	**8.7000e-004**	**0.0000**	**2.8000e-004**	**0.0000**	**2.8000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2209**	**0.2209**	**1.0000e-005**	**1.0000e-005**	**0.2230**

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					0.0177	0.0000	0.0177	8.5600e-003	0.0000	8.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2800e-003	0.0448	0.0369	7.0000e-005		1.9400e-003	1.9400e-003		1.7800e-003	1.7800e-003	0.0000	6.5152	6.5152	2.1100e-003	0.0000	6.5678
Total	**4.2800e-003**	**0.0448**	**0.0369**	**7.0000e-005**	**0.0177**	**1.9400e-003**	**0.0197**	**8.5600e-003**	**1.7800e-003**	**0.0103**	**0.0000**	**6.5152**	**6.5152**	**2.1100e-003**	**0.0000**	**6.5678**

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

3.3 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	8.7000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2209	0.2209	1.0000e-005	1.0000e-005	0.2230
Total	**1.1000e-004**	**7.0000e-005**	**8.7000e-004**	**0.0000**	**2.8000e-004**	**0.0000**	**2.8000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2209**	**0.2209**	**1.0000e-005**	**1.0000e-005**	**0.2230**

3.4 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	0.0975	0.8919	1.0071	1.6700e-003		0.0434	0.0434		0.0408	0.0408	0.0000	143.7189	143.7189	0.0342	0.0000	144.5737
Total	**0.0975**	**0.8919**	**1.0071**	**1.6700e-003**		**0.0434**	**0.0434**		**0.0408**	**0.0408**	**0.0000**	**143.7189**	**143.7189**	**0.0342**	**0.0000**	**144.5737**

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

3.4 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	4.0000e-004	0.0151	4.5600e-003	6.0000e-005	1.8100e-003	8.0000e-005	1.9000e-003	5.2000e-004	8.0000e-005	6.0000e-004	0.0000	5.7496	5.7496	1.4000e-004	8.4000e-004	6.0045
Worker	6.2200e-003	3.8500e-003	0.0506	1.4000e-004	0.0159	9.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.7852	12.7852	4.0000e-004	3.7000e-004	12.9042
Total	**6.6200e-003**	**0.0190**	**0.0552**	**2.0000e-004**	**0.0178**	**1.7000e-004**	**0.0179**	**4.7600e-003**	**1.6000e-004**	**4.9200e-003**	**0.0000**	**18.5348**	**18.5348**	**5.4000e-004**	**1.2100e-003**	**18.9087**

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	0.0975	0.8919	1.0071	1.6700e-003		0.0434	0.0434		0.0408	0.0408	0.0000	143.7188	143.7188	0.0342	0.0000	144.5735
Total	**0.0975**	**0.8919**	**1.0071**	**1.6700e-003**		**0.0434**	**0.0434**		**0.0408**	**0.0408**	**0.0000**	**143.7188**	**143.7188**	**0.0342**	**0.0000**	**144.5735**

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

3.4 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	4.0000e-004	0.0151	4.5600e-003	6.0000e-005	1.8100e-003	8.0000e-005	1.9000e-003	5.2000e-004	8.0000e-005	6.0000e-004	0.0000	5.7496	5.7496	1.4000e-004	8.4000e-004	6.0045
Worker	6.2200e-003	3.8500e-003	0.0506	1.4000e-004	0.0159	9.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.7852	12.7852	4.0000e-004	3.7000e-004	12.9042
Total	**6.6200e-003**	**0.0190**	**0.0552**	**2.0000e-004**	**0.0178**	**1.7000e-004**	**0.0179**	**4.7600e-003**	**1.6000e-004**	**4.9200e-003**	**0.0000**	**18.5348**	**18.5348**	**5.4000e-004**	**1.2100e-003**	**18.9087**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0780	0.7125	0.8568	1.4300e-003		0.0325	0.0325		0.0306	0.0306	0.0000	122.8800	122.8800	0.0291	0.0000	123.6065
Total	**0.0780**	**0.7125**	**0.8568**	**1.4300e-003**		**0.0325**	**0.0325**		**0.0306**	**0.0306**	**0.0000**	**122.8800**	**122.8800**	**0.0291**	**0.0000**	**123.6065**

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

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	0.0127	3.7700e-003	5.0000e-005	1.5500e-003	7.0000e-005	1.6200e-003	4.5000e-004	6.0000e-005	5.1000e-004	0.0000	4.8216	4.8216	1.2000e-004	7.1000e-004	5.0358
Worker	4.9700e-003	2.9300e-003	0.0403	1.1000e-004	0.0136	7.0000e-005	0.0137	3.6200e-003	6.0000e-005	3.6900e-003	0.0000	10.6565	10.6565	3.1000e-004	2.9000e-004	10.7509
Total	**5.3000e-003**	**0.0156**	**0.0440**	**1.6000e-004**	**0.0152**	**1.4000e-004**	**0.0153**	**4.0700e-003**	**1.2000e-004**	**4.2000e-003**	**0.0000**	**15.4781**	**15.4781**	**4.3000e-004**	**1.0000e-003**	**15.7867**

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	0.0780	0.7125	0.8568	1.4300e-003		0.0325	0.0325		0.0306	0.0306	0.0000	122.8799	122.8799	0.0291	0.0000	123.6063
Total	**0.0780**	**0.7125**	**0.8568**	**1.4300e-003**		**0.0325**	**0.0325**		**0.0306**	**0.0306**	**0.0000**	**122.8799**	**122.8799**	**0.0291**	**0.0000**	**123.6063**

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

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	0.0127	3.7700e-003	5.0000e-005	1.5500e-003	7.0000e-005	1.6200e-003	4.5000e-004	6.0000e-005	5.1000e-004	0.0000	4.8216	4.8216	1.2000e-004	7.1000e-004	5.0358
Worker	4.9700e-003	2.9300e-003	0.0403	1.1000e-004	0.0136	7.0000e-005	0.0137	3.6200e-003	6.0000e-005	3.6900e-003	0.0000	10.6565	10.6565	3.1000e-004	2.9000e-004	10.7509
Total	**5.3000e-003**	**0.0156**	**0.0440**	**1.6000e-004**	**0.0152**	**1.4000e-004**	**0.0153**	**4.0700e-003**	**1.2000e-004**	**4.2000e-003**	**0.0000**	**15.4781**	**15.4781**	**4.3000e-004**	**1.0000e-003**	**15.7867**

3.5 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	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.2600e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

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

3.5 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	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704
Total	**5.2000e-004**	**3.2000e-004**	**4.2000e-003**	**1.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.5000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**1.0605**	**1.0605**	**3.0000e-005**	**3.0000e-005**	**1.0704**

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	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.2600e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

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

3.5 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	5.2000e-004	3.2000e-004	4.2000e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0605	1.0605	3.0000e-005	3.0000e-005	1.0704
Total	**5.2000e-004**	**3.2000e-004**	**4.2000e-003**	**1.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.5000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**1.0605**	**1.0605**	**3.0000e-005**	**3.0000e-005**	**1.0704**

3.6 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	0.1489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0743	0.1032	1.7000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	14.5536	14.5536	8.7000e-004	0.0000	14.5753
Total	**0.1598**	**0.0743**	**0.1032**	**1.7000e-004**		**4.0400e-003**	**4.0400e-003**		**4.0400e-003**	**4.0400e-003**	**0.0000**	**14.5536**	**14.5536**	**8.7000e-004**	**0.0000**	**14.5753**

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

3.6 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	1.1400e-003	7.1000e-004	9.3000e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	1.0000e-005	7.9000e-004	0.0000	2.3508	2.3508	7.0000e-005	7.0000e-005	2.3727
Total	**1.1400e-003**	**7.1000e-004**	**9.3000e-003**	**3.0000e-005**	**2.9300e-003**	**2.0000e-005**	**2.9500e-003**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**0.0000**	**2.3508**	**2.3508**	**7.0000e-005**	**7.0000e-005**	**2.3727**

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	0.1489					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0109	0.0743	0.1032	1.7000e-004		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	14.5535	14.5535	8.7000e-004	0.0000	14.5753
Total	**0.1598**	**0.0743**	**0.1032**	**1.7000e-004**		**4.0400e-003**	**4.0400e-003**		**4.0400e-003**	**4.0400e-003**	**0.0000**	**14.5535**	**14.5535**	**8.7000e-004**	**0.0000**	**14.5753**

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

3.6 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	1.1400e-003	7.1000e-004	9.3000e-003	3.0000e-005	2.9300e-003	2.0000e-005	2.9500e-003	7.8000e-004	1.0000e-005	7.9000e-004	0.0000	2.3508	2.3508	7.0000e-005	7.0000e-005	2.3727
Total	**1.1400e-003**	**7.1000e-004**	**9.3000e-003**	**3.0000e-005**	**2.9300e-003**	**2.0000e-005**	**2.9500e-003**	**7.8000e-004**	**1.0000e-005**	**7.9000e-004**	**0.0000**	**2.3508**	**2.3508**	**7.0000e-005**	**7.0000e-005**	**2.3727**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0707	0.1050	1.7000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	14.8089	14.8089	8.3000e-004	0.0000	14.8297
Total	**0.1620**	**0.0707**	**0.1050**	**1.7000e-004**		**3.5300e-003**	**3.5300e-003**		**3.5300e-003**	**3.5300e-003**	**0.0000**	**14.8089**	**14.8089**	**8.3000e-004**	**0.0000**	**14.8297**

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

3.6 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	6.4000e-004	8.8100e-003	2.0000e-005	2.9800e-003	2.0000e-005	3.0000e-003	7.9000e-004	1.0000e-005	8.1000e-004	0.0000	2.3324	2.3324	7.0000e-005	6.0000e-005	2.3530
Total	**1.0900e-003**	**6.4000e-004**	**8.8100e-003**	**2.0000e-005**	**2.9800e-003**	**2.0000e-005**	**3.0000e-003**	**7.9000e-004**	**1.0000e-005**	**8.1000e-004**	**0.0000**	**2.3324**	**2.3324**	**7.0000e-005**	**6.0000e-005**	**2.3530**

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	0.1515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0707	0.1050	1.7000e-004		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	14.8089	14.8089	8.3000e-004	0.0000	14.8297
Total	**0.1620**	**0.0707**	**0.1050**	**1.7000e-004**		**3.5300e-003**	**3.5300e-003**		**3.5300e-003**	**3.5300e-003**	**0.0000**	**14.8089**	**14.8089**	**8.3000e-004**	**0.0000**	**14.8297**

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

3.6 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0900e-003	6.4000e-004	8.8100e-003	2.0000e-005	2.9800e-003	2.0000e-005	3.0000e-003	7.9000e-004	1.0000e-005	8.1000e-004	0.0000	2.3324	2.3324	7.0000e-005	6.0000e-005	2.3530
Total	**1.0900e-003**	**6.4000e-004**	**8.8100e-003**	**2.0000e-005**	**2.9800e-003**	**2.0000e-005**	**3.0000e-003**	**7.9000e-004**	**1.0000e-005**	**8.1000e-004**	**0.0000**	**2.3324**	**2.3324**	**7.0000e-005**	**6.0000e-005**	**2.3530**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

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	0.1641	0.2068	1.4582	2.9600e-003	0.3036	2.3800e-003	0.3060	0.0812	2.2200e-003	0.0834	0.0000	278.1622	278.1622	0.0197	0.0141	282.8480
Unmitigated	0.1705	0.2219	1.5634	3.2300e-003	0.3328	2.5800e-003	0.3353	0.0890	2.4100e-003	0.0914	0.0000	304.0004	304.0004	0.0208	0.0151	309.0157

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	351.36	390.72	301.44	897,757	819,108
Total	351.36	390.72	301.44	897,757	819,108

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

5.0 Energy Detail

Historical Energy Use: N

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

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	38.0060	38.0060	3.5000e-003	4.2000e-004	38.2201
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	38.0060	38.0060	3.5000e-003	4.2000e-004	38.2201
NaturalGas Mitigated	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	48.3400	48.3400	9.3000e-004	8.9000e-004	48.6272
NaturalGas Unmitigated	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	48.3400	48.3400	9.3000e-004	8.9000e-004	48.6272

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	905856	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	48.3400	48.3400	9.3000e-004	8.9000e-004	48.6272
Total		**4.8800e-003**	**0.0417**	**0.0178**	**2.7000e-004**		**3.3700e-003**	**3.3700e-003**		**3.3700e-003**	**3.3700e-003**	**0.0000**	**48.3400**	**48.3400**	**9.3000e-004**	**8.9000e-004**	**48.6272**

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	tons/yr										MT/yr					
Condo/Townhouse	905856	4.8800e-003	0.0417	0.0178	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003	0.0000	48.3400	48.3400	9.3000e-004	8.9000e-004	48.6272
Total		**4.8800e-003**	**0.0417**	**0.0178**	**2.7000e-004**		**3.3700e-003**	**3.3700e-003**		**3.3700e-003**	**3.3700e-003**	**0.0000**	**48.3400**	**48.3400**	**9.3000e-004**	**8.9000e-004**	**48.6272**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	234060	38.0060	3.5000e-003	4.2000e-004	38.2201
Total		**38.0060**	**3.5000e-003**	**4.2000e-004**	**38.2201**

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	234060	38.0060	3.5000e-003	4.2000e-004	38.2201
Total		**38.0060**	**3.5000e-003**	**4.2000e-004**	**38.2201**

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	tons/yr										MT/yr					
Mitigated	0.2324	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
Unmitigated	0.2324	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280

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	tons/yr										MT/yr					
Architectural Coating	0.0300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1875					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	0.0149	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
Total	**0.2324**	**5.7000e-003**	**0.4948**	**3.0000e-005**		**2.7400e-003**	**2.7400e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**0.8086**	**0.8086**	**7.8000e-004**	**0.0000**	**0.8280**

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	0.0300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1875					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	0.0149	5.7000e-003	0.4948	3.0000e-005		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	0.8086	0.8086	7.8000e-004	0.0000	0.8280
Total	**0.2324**	**5.7000e-003**	**0.4948**	**3.0000e-005**		**2.7400e-003**	**2.7400e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**0.8086**	**0.8086**	**7.8000e-004**	**0.0000**	**0.8280**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	4.5331	4.1200e-003	2.4400e-003	5.3647
Unmitigated	4.7572	4.1400e-003	2.4500e-003	5.5901

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.12739 / 1.97162	4.7572	4.1400e-003	2.4500e-003	5.5901
Total		**4.7572**	**4.1400e-003**	**2.4500e-003**	**5.5901**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.12739 / 1.57729	4.5331	4.1200e-003	2.4400e-003	5.3647
Total		**4.5331**	**4.1200e-003**	**2.4400e-003**	**5.3647**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.4820	0.2649	0.0000	11.1041
Unmitigated	4.4820	0.2649	0.0000	11.1041

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			
Condo/Townhouse	22.08	4.4820	0.2649	0.0000	11.1041
Total		**4.4820**	**0.2649**	**0.0000**	**11.1041**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	22.08	4.4820	0.2649	0.0000	11.1041
Total		**4.4820**	**0.2649**	**0.0000**	**11.1041**

9.0 Operational Offroad

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

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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

Norwood Townhomes

Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	48.00	Dwelling Unit	3.70	48,000.00	128

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.5	**Precipitation Freq (Days)**	58
Climate Zone	6			**Operational Year**	2024
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage based on site plan for the proposed project.

Construction Phase - Grading phase adjusted based on AQ questionnaire. Architectural coating assumed to start two weeks after the initiation of building construction, and last for the same duration.

Grading -

Mobile Land Use Mitigation - Information based on applicant provided AQ questionnaire.

Area Mitigation - Information based on applicant provided AQ questionnaire.

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	230.00
tblConstructionPhase	PhaseEndDate	6/19/2023	6/14/2023

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

tblConstructionPhase	PhaseEndDate	5/30/2024	7/10/2023
tblConstructionPhase	PhaseEndDate	5/6/2024	5/27/2024
tblConstructionPhase	PhaseEndDate	6/25/2024	6/10/2024
tblConstructionPhase	PhaseStartDate	5/7/2024	6/15/2023
tblConstructionPhase	PhaseStartDate	6/20/2023	7/11/2023
tblConstructionPhase	PhaseStartDate	5/31/2024	7/25/2023
tblLandUse	LotAcreage	3.00	3.70

2.0 Emissions Summary

Norwood Townhomes - Sacramento Metropolitan 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					
2023	4.5244	27.5533	19.2718	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.4139	3,815.4139	1.1961	0.0223	3,846.2531
2024	4.4026	14.9501	19.1093	0.0337	0.3496	0.6771	1.0267	0.0934	0.6405	0.7339	0.0000	3,228.7690	3,228.7690	0.6301	0.0216	3,250.9447
Maximum	**4.5244**	**27.5533**	**19.2718**	**0.0393**	**19.7939**	**1.2667**	**21.0607**	**10.1388**	**1.1654**	**11.3042**	**0.0000**	**3,815.4139**	**3,815.4139**	**1.1961**	**0.0223**	**3,846.2531**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.5244	27.5533	19.2718	0.0393	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,815.4139	3,815.4139	1.1961	0.0223	3,846.2531
2024	4.4026	14.9501	19.1093	0.0337	0.3496	0.6771	1.0267	0.0934	0.6405	0.7339	0.0000	3,228.7690	3,228.7690	0.6301	0.0216	3,250.9447
Maximum	**4.5244**	**27.5533**	**19.2718**	**0.0393**	**19.7939**	**1.2667**	**21.0607**	**10.1388**	**1.1654**	**11.3042**	**0.0000**	**3,815.4139**	**3,815.4139**	**1.1961**	**0.0223**	**3,846.2531**

Norwood Townhomes - Sacramento Metropolitan 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Energy	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Mobile	1.2859	1.2538	10.3622	0.0213	2.1143	0.0159	2.1301	0.5637	0.0148	0.5785		2,209.1954	2,209.1954	0.1342	0.0979	2,241.7300
Total	**2.6234**	**1.5281**	**14.4180**	**0.0230**	**2.1143**	**0.0563**	**2.1706**	**0.5637**	**0.0552**	**0.6189**	**0.0000**	**2,508.3022**	**2,508.3022**	**0.1467**	**0.1033**	**2,542.7429**

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	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Energy	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Mobile	1.2464	1.1693	9.6175	0.0195	1.9291	0.0146	1.9437	0.5143	0.0136	0.5279		2,020.9659	2,020.9659	0.1262	0.0914	2,051.3501
Total	**2.5840**	**1.4436**	**13.6732**	**0.0212**	**1.9291**	**0.0550**	**1.9841**	**0.5143**	**0.0541**	**0.5684**	**0.0000**	**2,320.0727**	**2,320.0727**	**0.1387**	**0.0967**	**2,352.3630**

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	N20	CO2e
Percent Reduction	**1.50**	**5.53**	**5.17**	**7.92**	**8.76**	**2.22**	**8.59**	**8.76**	**2.12**	**8.17**	**0.00**	**7.50**	**7.50**	**5.45**	**6.34**	**7.49**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/7/2023	5	5	
2	Grading	Grading	6/8/2023	6/14/2023	5	5	
3	Building Construction	Building Construction	7/11/2023	5/27/2024	5	230	
4	Paving	Paving	6/15/2023	7/10/2023	5	18	
5	Architectural Coating	Architectural Coating	7/25/2023	6/10/2024	5	230	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 5

Acres of Paving: 0

Residential Indoor: 97,200; Residential Outdoor: 32,400; 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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 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		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**19.6570**	**1.2660**	**20.9230**	**10.1025**	**1.1647**	**11.2672**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	**0.0607**	**0.0291**	**0.4906**	**1.2500e-003**	**0.1369**	**7.1000e-004**	**0.1376**	**0.0363**	**6.5000e-004**	**0.0370**		**128.1058**	**128.1058**	**3.5200e-003**	**3.1500e-003**	**129.1312**

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

3.2 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	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**19.6570**	**1.2660**	**20.9230**	**10.1025**	**1.1647**	**11.2672**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

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	0.0607	0.0291	0.4906	1.2500e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		128.1058	128.1058	3.5200e-003	3.1500e-003	129.1312
Total	**0.0607**	**0.0291**	**0.4906**	**1.2500e-003**	**0.1369**	**7.1000e-004**	**0.1376**	**0.0363**	**6.5000e-004**	**0.0370**		**128.1058**	**128.1058**	**3.5200e-003**	**3.1500e-003**	**129.1312**

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

3.3 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**7.0826**	**0.7749**	**7.8575**	**3.4247**	**0.7129**	**4.1377**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

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	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093
Total	**0.0505**	**0.0243**	**0.4088**	**1.0400e-003**	**0.1141**	**5.9000e-004**	**0.1147**	**0.0303**	**5.4000e-004**	**0.0308**		**106.7548**	**106.7548**	**2.9300e-003**	**2.6200e-003**	**107.6093**

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

3.3 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**7.0826**	**0.7749**	**7.8575**	**3.4247**	**0.7129**	**4.1377**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

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	0.0505	0.0243	0.4088	1.0400e-003	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		106.7548	106.7548	2.9300e-003	2.6200e-003	107.6093
Total	**0.0505**	**0.0243**	**0.4088**	**1.0400e-003**	**0.1141**	**5.9000e-004**	**0.1147**	**0.0303**	**5.4000e-004**	**0.0308**		**106.7548**	**106.7548**	**2.9300e-003**	**2.6200e-003**	**107.6093**

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

3.4 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	6.6900e-003	0.2315	0.0721	9.5000e-004	0.0301	1.2900e-003	0.0314	8.6700e-003	1.2400e-003	9.9100e-003		102.1921	102.1921	2.5300e-003	0.0150	106.7193
Worker	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884
Total	**0.1246**	**0.2882**	**1.0259**	**3.3800e-003**	**0.2964**	**2.6600e-003**	**0.2990**	**0.0793**	**2.5000e-003**	**0.0818**		**351.2867**	**351.2867**	**9.3700e-003**	**0.0211**	**357.8077**

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

3.4 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	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**	**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	6.6900e-003	0.2315	0.0721	9.5000e-004	0.0301	1.2900e-003	0.0314	8.6700e-003	1.2400e-003	9.9100e-003		102.1921	102.1921	2.5300e-003	0.0150	106.7193
Worker	0.1179	0.0567	0.9539	2.4300e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		249.0946	249.0946	6.8400e-003	6.1200e-003	251.0884
Total	**0.1246**	**0.2882**	**1.0259**	**3.3800e-003**	**0.2964**	**2.6600e-003**	**0.2990**	**0.0793**	**2.5000e-003**	**0.0818**		**351.2867**	**351.2867**	**9.3700e-003**	**0.0211**	**357.8077**

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	6.4000e-003	0.2269	0.0698	9.3000e-004	0.0301	1.2700e-003	0.0314	8.6700e-003	1.2200e-003	9.8900e-003		100.2459	100.2459	2.4500e-003	0.0147	104.6964
Worker	0.1102	0.0505	0.8855	2.3500e-003	0.2662	1.3100e-003	0.2676	0.0706	1.2000e-003	0.0718		242.8135	242.8135	6.1700e-003	5.6900e-003	244.6637
Total	**0.1166**	**0.2774**	**0.9553**	**3.2800e-003**	**0.2964**	**2.5800e-003**	**0.2989**	**0.0793**	**2.4200e-003**	**0.0817**		**343.0594**	**343.0594**	**8.6200e-003**	**0.0204**	**349.3601**

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

3.4 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	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**	**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	6.4000e-003	0.2269	0.0698	9.3000e-004	0.0301	1.2700e-003	0.0314	8.6700e-003	1.2200e-003	9.8900e-003		100.2459	100.2459	2.4500e-003	0.0147	104.6964
Worker	0.1102	0.0505	0.8855	2.3500e-003	0.2662	1.3100e-003	0.2676	0.0706	1.2000e-003	0.0718		242.8135	242.8135	6.1700e-003	5.6900e-003	244.6637
Total	**0.1166**	**0.2774**	**0.9553**	**3.2800e-003**	**0.2964**	**2.5800e-003**	**0.2989**	**0.0793**	**2.4200e-003**	**0.0817**		**343.0594**	**343.0594**	**8.6200e-003**	**0.0204**	**349.3601**

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9181**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

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	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	**0.0674**	**0.0324**	**0.5451**	**1.3900e-003**	**0.1521**	**7.8000e-004**	**0.1529**	**0.0404**	**7.2000e-004**	**0.0411**		**142.3398**	**142.3398**	**3.9100e-003**	**3.5000e-003**	**143.4791**

Norwood Townhomes - Sacramento Metropolitan AQMD Air District, Summer

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

3.5 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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9181**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

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	0.0674	0.0324	0.5451	1.3900e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		142.3398	142.3398	3.9100e-003	3.5000e-003	143.4791
Total	**0.0674**	**0.0324**	**0.5451**	**1.3900e-003**	**0.1521**	**7.8000e-004**	**0.1529**	**0.0404**	**7.2000e-004**	**0.0411**		**142.3398**	**142.3398**	**3.9100e-003**	**3.5000e-003**	**143.4791**

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

3.6 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	2.6117					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	**2.8034**	**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	0.0236	0.0113	0.1908	4.9000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		49.8189	49.8189	1.3700e-003	1.2200e-003	50.2177
Total	**0.0236**	**0.0113**	**0.1908**	**4.9000e-004**	**0.0533**	**2.7000e-004**	**0.0535**	**0.0141**	**2.5000e-004**	**0.0144**		**49.8189**	**49.8189**	**1.3700e-003**	**1.2200e-003**	**50.2177**

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

3.6 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	2.6117					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	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**2.8034**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**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	0.0236	0.0113	0.1908	4.9000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		49.8189	49.8189	1.3700e-003	1.2200e-003	50.2177
Total	**0.0236**	**0.0113**	**0.1908**	**4.9000e-004**	**0.0533**	**2.7000e-004**	**0.0535**	**0.0141**	**2.5000e-004**	**0.0144**		**49.8189**	**49.8189**	**1.3700e-003**	**1.2200e-003**	**50.2177**

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.6117					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	**2.7925**	**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	0.0220	0.0101	0.1771	4.7000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		48.5627	48.5627	1.2300e-003	1.1400e-003	48.9327
Total	**0.0220**	**0.0101**	**0.1771**	**4.7000e-004**	**0.0533**	**2.6000e-004**	**0.0535**	**0.0141**	**2.4000e-004**	**0.0144**		**48.5627**	**48.5627**	**1.2300e-003**	**1.1400e-003**	**48.9327**

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

3.6 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	2.6117					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	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**2.7925**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**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	0.0220	0.0101	0.1771	4.7000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		48.5627	48.5627	1.2300e-003	1.1400e-003	48.9327
Total	**0.0220**	**0.0101**	**0.1771**	**4.7000e-004**	**0.0533**	**2.6000e-004**	**0.0535**	**0.0141**	**2.4000e-004**	**0.0144**		**48.5627**	**48.5627**	**1.2300e-003**	**1.1400e-003**	**48.9327**

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

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	1.2464	1.1693	9.6175	0.0195	1.9291	0.0146	1.9437	0.5143	0.0136	0.5279		2,020.9659	2,020.9659	0.1262	0.0914	2,051.3501
Unmitigated	1.2859	1.2538	10.3622	0.0213	2.1143	0.0159	2.1301	0.5637	0.0148	0.5785		2,209.1954	2,209.1954	0.1342	0.0979	2,241.7300

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	351.36	390.72	301.44	897,757	819,108
Total	351.36	390.72	301.44	897,757	819,108

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

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	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
NaturalGas Unmitigated	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114

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					
Condo/Townhouse	2481.8	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Total		**0.0268**	**0.2287**	**0.0973**	**1.4600e-003**		**0.0185**	**0.0185**		**0.0185**	**0.0185**		**291.9763**	**291.9763**	**5.6000e-003**	**5.3500e-003**	**293.7114**

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					
Condo/Townhouse	2.4818	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Total		**0.0268**	**0.2287**	**0.0973**	**1.4600e-003**		**0.0185**	**0.0185**		**0.0185**	**0.0185**		**291.9763**	**291.9763**	**5.6000e-003**	**5.3500e-003**	**293.7114**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Norwood Townhomes - Sacramento Metropolitan 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
Category	lb/day										lb/day					
Mitigated	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Unmitigated	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016

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	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0272					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	0.1190	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219		7.1305	7.1305	6.8400e-003		7.3016
Total	**1.3108**	**0.0456**	**3.9584**	**2.1000e-004**		**0.0219**	**0.0219**		**0.0219**	**0.0219**	**0.0000**	**7.1305**	**7.1305**	**6.8400e-003**	**0.0000**	**7.3016**

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	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0272					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	0.1190	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219		7.1305	7.1305	6.8400e-003		7.3016
Total	**1.3108**	**0.0456**	**3.9584**	**2.1000e-004**		**0.0219**	**0.0219**		**0.0219**	**0.0219**	**0.0000**	**7.1305**	**7.1305**	**6.8400e-003**	**0.0000**	**7.3016**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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

Norwood Townhomes

Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	48.00	Dwelling Unit	3.70	48,000.00	128

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	3.5	**Precipitation Freq (Days)**	58
Climate Zone	6			**Operational Year**	2024
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	357.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage based on site plan for the proposed project.

Construction Phase - Grading phase adjusted based on AQ questionnaire. Architectural coating assumed to start two weeks after the initiation of building construction, and last for the same duration.

Grading -

Mobile Land Use Mitigation - Information based on applicant provided AQ questionnaire.

Area Mitigation - Information based on applicant provided AQ questionnaire.

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWELO.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	230.00
tblConstructionPhase	PhaseEndDate	6/19/2023	6/14/2023

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

tblConstructionPhase	PhaseEndDate	5/30/2024	7/10/2023
tblConstructionPhase	PhaseEndDate	5/6/2024	5/27/2024
tblConstructionPhase	PhaseEndDate	6/25/2024	6/10/2024
tblConstructionPhase	PhaseStartDate	5/7/2024	6/15/2023
tblConstructionPhase	PhaseStartDate	6/20/2023	7/11/2023
tblConstructionPhase	PhaseStartDate	5/31/2024	7/25/2023
tblLandUse	LotAcreage	3.00	3.70

2.0 Emissions Summary

Norwood Townhomes - Sacramento Metropolitan 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					
2023	4.5080	27.5599	19.1274	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.2622	3,801.2622	1.1966	0.0234	3,832.2524
2024	4.3875	14.9808	18.9798	0.0334	0.3496	0.6771	1.0267	0.0934	0.6405	0.7339	0.0000	3,196.7506	3,196.7506	0.6312	0.0226	3,219.2632
Maximum	**4.5080**	**27.5599**	**19.1274**	**0.0392**	**19.7939**	**1.2667**	**21.0607**	**10.1388**	**1.1654**	**11.3042**	**0.0000**	**3,801.2622**	**3,801.2622**	**1.1966**	**0.0234**	**3,832.2524**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	4.5080	27.5599	19.1274	0.0392	19.7939	1.2667	21.0607	10.1388	1.1654	11.3042	0.0000	3,801.2622	3,801.2622	1.1966	0.0234	3,832.2524
2024	4.3875	14.9808	18.9798	0.0334	0.3496	0.6771	1.0267	0.0934	0.6405	0.7339	0.0000	3,196.7506	3,196.7506	0.6312	0.0226	3,219.2632
Maximum	**4.5080**	**27.5599**	**19.1274**	**0.0392**	**19.7939**	**1.2667**	**21.0607**	**10.1388**	**1.1654**	**11.3042**	**0.0000**	**3,801.2622**	**3,801.2622**	**1.1966**	**0.0234**	**3,832.2524**

Norwood Townhomes - Sacramento Metropolitan 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Energy	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Mobile	1.0107	1.4513	10.2315	0.0195	2.1143	0.0159	2.1302	0.5637	0.0148	0.5785		2,020.0838	2,020.0838	0.1516	0.1070	2,055.7579
Total	**2.3483**	**1.7256**	**14.2872**	**0.0212**	**2.1143**	**0.0563**	**2.1706**	**0.5637**	**0.0553**	**0.6189**	**0.0000**	**2,319.1906**	**2,319.1906**	**0.1640**	**0.1124**	**2,356.7708**

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	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Energy	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Mobile	0.9696	1.3530	9.5767	0.0178	1.9291	0.0146	1.9437	0.5143	0.0137	0.5280		1,848.5842	1,848.5842	0.1436	0.0999	1,881.9475
Total	**2.3071**	**1.6274**	**13.6324**	**0.0195**	**1.9291**	**0.0551**	**1.9841**	**0.5143**	**0.0541**	**0.5684**	**0.0000**	**2,147.6911**	**2,147.6911**	**0.1560**	**0.1053**	**2,182.9604**

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	N20	CO2e
Percent Reduction	**1.75**	**5.69**	**4.58**	**7.80**	**8.76**	**2.22**	**8.59**	**8.76**	**2.12**	**8.17**	**0.00**	**7.39**	**7.39**	**4.86**	**6.31**	**7.37**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/7/2023	5	5	
2	Grading	Grading	6/8/2023	6/14/2023	5	5	
3	Building Construction	Building Construction	7/11/2023	5/27/2024	5	230	
4	Paving	Paving	6/15/2023	7/10/2023	5	18	
5	Architectural Coating	Architectural Coating	7/25/2023	6/10/2024	5	230	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 5

Acres of Paving: 0

Residential Indoor: 97,200; Residential Outdoor: 32,400; 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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	35.00	5.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

3.2 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		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**19.6570**	**1.2660**	**20.9230**	**10.1025**	**1.1647**	**11.2672**		**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	**0.0537**	**0.0358**	**0.4272**	**1.1100e-003**	**0.1369**	**7.1000e-004**	**0.1376**	**0.0363**	**6.5000e-004**	**0.0370**		**113.9541**	**113.9541**	**4.0500e-003**	**3.6100e-003**	**115.1305**

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

3.2 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	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**19.6570**	**1.2660**	**20.9230**	**10.1025**	**1.1647**	**11.2672**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

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	0.0537	0.0358	0.4272	1.1100e-003	0.1369	7.1000e-004	0.1376	0.0363	6.5000e-004	0.0370		113.9541	113.9541	4.0500e-003	3.6100e-003	115.1305
Total	**0.0537**	**0.0358**	**0.4272**	**1.1100e-003**	**0.1369**	**7.1000e-004**	**0.1376**	**0.0363**	**6.5000e-004**	**0.0370**		**113.9541**	**113.9541**	**4.0500e-003**	**3.6100e-003**	**115.1305**

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

3.3 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**7.0826**	**0.7749**	**7.8575**	**3.4247**	**0.7129**	**4.1377**		**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

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	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421
Total	**0.0448**	**0.0298**	**0.3560**	**9.3000e-004**	**0.1141**	**5.9000e-004**	**0.1147**	**0.0303**	**5.4000e-004**	**0.0308**		**94.9617**	**94.9617**	**3.3700e-003**	**3.0100e-003**	**95.9421**

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

3.3 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	**1.7109**	**17.9359**	**14.7507**	**0.0297**	**7.0826**	**0.7749**	**7.8575**	**3.4247**	**0.7129**	**4.1377**	**0.0000**	**2,872.6910**	**2,872.6910**	**0.9291**		**2,895.9182**

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	0.0448	0.0298	0.3560	9.3000e-004	0.1141	5.9000e-004	0.1147	0.0303	5.4000e-004	0.0308		94.9617	94.9617	3.3700e-003	3.0100e-003	95.9421
Total	**0.0448**	**0.0298**	**0.3560**	**9.3000e-004**	**0.1141**	**5.9000e-004**	**0.1147**	**0.0303**	**5.4000e-004**	**0.0308**		**94.9617**	**94.9617**	**3.3700e-003**	**3.0100e-003**	**95.9421**

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

3.4 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	6.4700e-003	0.2488	0.0754	9.5000e-004	0.0301	1.3100e-003	0.0314	8.6700e-003	1.2500e-003	9.9200e-003		102.2654	102.2654	2.5100e-003	0.0150	106.8029
Worker	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649
Total	**0.1109**	**0.3184**	**0.9061**	**3.1200e-003**	**0.2964**	**2.6800e-003**	**0.2991**	**0.0793**	**2.5100e-003**	**0.0818**		**323.8427**	**323.8427**	**0.0104**	**0.0220**	**330.6678**

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

3.4 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	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**	**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	6.4700e-003	0.2488	0.0754	9.5000e-004	0.0301	1.3100e-003	0.0314	8.6700e-003	1.2500e-003	9.9200e-003		102.2654	102.2654	2.5100e-003	0.0150	106.8029
Worker	0.1045	0.0695	0.8308	2.1700e-003	0.2662	1.3700e-003	0.2676	0.0706	1.2600e-003	0.0719		221.5774	221.5774	7.8700e-003	7.0200e-003	223.8649
Total	**0.1109**	**0.3184**	**0.9061**	**3.1200e-003**	**0.2964**	**2.6800e-003**	**0.2991**	**0.0793**	**2.5100e-003**	**0.0818**		**323.8427**	**323.8427**	**0.0104**	**0.0220**	**330.6678**

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	6.1800e-003	0.2440	0.0730	9.3000e-004	0.0301	1.2900e-003	0.0314	8.6700e-003	1.2300e-003	9.9000e-003		100.3304	100.3304	2.4400e-003	0.0148	104.7910
Worker	0.0978	0.0619	0.7748	2.0900e-003	0.2662	1.3100e-003	0.2676	0.0706	1.2000e-003	0.0718		216.0610	216.0610	7.1500e-003	6.5200e-003	218.1835
Total	**0.1039**	**0.3059**	**0.8479**	**3.0200e-003**	**0.2964**	**2.6000e-003**	**0.2990**	**0.0793**	**2.4300e-003**	**0.0817**		**316.3914**	**316.3914**	**9.5900e-003**	**0.0213**	**322.9746**

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

3.4 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	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**	**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	6.1800e-003	0.2440	0.0730	9.3000e-004	0.0301	1.2900e-003	0.0314	8.6700e-003	1.2300e-003	9.9000e-003		100.3304	100.3304	2.4400e-003	0.0148	104.7910
Worker	0.0978	0.0619	0.7748	2.0900e-003	0.2662	1.3100e-003	0.2676	0.0706	1.2000e-003	0.0718		216.0610	216.0610	7.1500e-003	6.5200e-003	218.1835
Total	**0.1039**	**0.3059**	**0.8479**	**3.0200e-003**	**0.2964**	**2.6000e-003**	**0.2990**	**0.0793**	**2.4300e-003**	**0.0817**		**316.3914**	**316.3914**	**9.5900e-003**	**0.0213**	**322.9746**

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

3.5 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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9181**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

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	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	**0.0597**	**0.0397**	**0.4747**	**1.2400e-003**	**0.1521**	**7.8000e-004**	**0.1529**	**0.0404**	**7.2000e-004**	**0.0411**		**126.6156**	**126.6156**	**4.5000e-003**	**4.0100e-003**	**127.9228**

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

3.5 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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9181**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

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	0.0597	0.0397	0.4747	1.2400e-003	0.1521	7.8000e-004	0.1529	0.0404	7.2000e-004	0.0411		126.6156	126.6156	4.5000e-003	4.0100e-003	127.9228
Total	**0.0597**	**0.0397**	**0.4747**	**1.2400e-003**	**0.1521**	**7.8000e-004**	**0.1529**	**0.0404**	**7.2000e-004**	**0.0411**		**126.6156**	**126.6156**	**4.5000e-003**	**4.0100e-003**	**127.9228**

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

3.6 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	2.6117					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	**2.8034**	**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	0.0209	0.0139	0.1662	4.3000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		44.3155	44.3155	1.5700e-003	1.4000e-003	44.7730
Total	**0.0209**	**0.0139**	**0.1662**	**4.3000e-004**	**0.0533**	**2.7000e-004**	**0.0535**	**0.0141**	**2.5000e-004**	**0.0144**		**44.3155**	**44.3155**	**1.5700e-003**	**1.4000e-003**	**44.7730**

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

3.6 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	2.6117					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	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**2.8034**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**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	0.0209	0.0139	0.1662	4.3000e-004	0.0533	2.7000e-004	0.0535	0.0141	2.5000e-004	0.0144		44.3155	44.3155	1.5700e-003	1.4000e-003	44.7730
Total	**0.0209**	**0.0139**	**0.1662**	**4.3000e-004**	**0.0533**	**2.7000e-004**	**0.0535**	**0.0141**	**2.5000e-004**	**0.0144**		**44.3155**	**44.3155**	**1.5700e-003**	**1.4000e-003**	**44.7730**

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

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.6117					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	**2.7925**	**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	0.0196	0.0124	0.1550	4.2000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		43.2122	43.2122	1.4300e-003	1.3000e-003	43.6367
Total	**0.0196**	**0.0124**	**0.1550**	**4.2000e-004**	**0.0533**	**2.6000e-004**	**0.0535**	**0.0141**	**2.4000e-004**	**0.0144**		**43.2122**	**43.2122**	**1.4300e-003**	**1.3000e-003**	**43.6367**

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

3.6 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	2.6117					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	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**2.7925**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**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	0.0196	0.0124	0.1550	4.2000e-004	0.0533	2.6000e-004	0.0535	0.0141	2.4000e-004	0.0144		43.2122	43.2122	1.4300e-003	1.3000e-003	43.6367
Total	**0.0196**	**0.0124**	**0.1550**	**4.2000e-004**	**0.0533**	**2.6000e-004**	**0.0535**	**0.0141**	**2.4000e-004**	**0.0144**		**43.2122**	**43.2122**	**1.4300e-003**	**1.3000e-003**	**43.6367**

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

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9696	1.3530	9.5767	0.0178	1.9291	0.0146	1.9437	0.5143	0.0137	0.5280		1,848.5842	1,848.5842	0.1436	0.0999	1,881.9475
Unmitigated	1.0107	1.4513	10.2315	0.0195	2.1143	0.0159	2.1302	0.5637	0.0148	0.5785		2,020.0838	2,020.0838	0.1516	0.1070	2,055.7579

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	351.36	390.72	301.44	897,757	819,108
Total	351.36	390.72	301.44	897,757	819,108

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.542485	0.056811	0.183752	0.130945	0.025591	0.005989	0.013266	0.009393	0.000917	0.000565	0.025954	0.000983	0.003351

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	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
NaturalGas Unmitigated	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114

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	lb/day										lb/day					
Condo/Townhouse	2481.8	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Total		**0.0268**	**0.2287**	**0.0973**	**1.4600e-003**		**0.0185**	**0.0185**		**0.0185**	**0.0185**		**291.9763**	**291.9763**	**5.6000e-003**	**5.3500e-003**	**293.7114**

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					
Condo/Townhouse	2.4818	0.0268	0.2287	0.0973	1.4600e-003		0.0185	0.0185		0.0185	0.0185		291.9763	291.9763	5.6000e-003	5.3500e-003	293.7114
Total		**0.0268**	**0.2287**	**0.0973**	**1.4600e-003**		**0.0185**	**0.0185**		**0.0185**	**0.0185**		**291.9763**	**291.9763**	**5.6000e-003**	**5.3500e-003**	**293.7114**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

Norwood Townhomes - Sacramento Metropolitan 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
Category	lb/day										lb/day					
Mitigated	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016
Unmitigated	1.3108	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219	0.0000	7.1305	7.1305	6.8400e-003	0.0000	7.3016

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	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0272					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	0.1190	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219		7.1305	7.1305	6.8400e-003		7.3016
Total	**1.3108**	**0.0456**	**3.9584**	**2.1000e-004**		**0.0219**	**0.0219**		**0.0219**	**0.0219**	**0.0000**	**7.1305**	**7.1305**	**6.8400e-003**	**0.0000**	**7.3016**

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	0.1646					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0272					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	0.1190	0.0456	3.9584	2.1000e-004		0.0219	0.0219		0.0219	0.0219		7.1305	7.1305	6.8400e-003		7.3016
Total	**1.3108**	**0.0456**	**3.9584**	**2.1000e-004**		**0.0219**	**0.0219**		**0.0219**	**0.0219**	**0.0000**	**7.1305**	**7.1305**	**6.8400e-003**	**0.0000**	**7.3016**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Norwood Townhomes

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

Sacramento Metropolitan 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Norwood Townhomes

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	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	11	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Norwood Townhomes

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	2.14100E-002	1.44960E-001	2.08220E-001	3.40000E-004	7.57000E-003	7.57000E-003	0.00000E+000	2.93624E+001	2.93624E+001	1.70000E-003	0.00000E+000	2.94050E+001
Cement and Mortar Mixers	7.90000E-004	4.97000E-003	4.16000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	6.18670E-001	6.18670E-001	6.00000E-005	0.00000E+000	6.20280E-001
Cranes	3.44500E-002	3.69500E-001	1.81820E-001	5.80000E-004	1.54100E-002	1.41700E-002	0.00000E+000	5.10116E+001	5.10116E+001	1.65000E-002	0.00000E+000	5.14240E+001
Excavators	4.70000E-004	3.87000E-003	8.14000E-003	1.00000E-005	1.90000E-004	1.70000E-004	0.00000E+000	1.13422E+000	1.13422E+000	3.70000E-004	0.00000E+000	1.14339E+000
Forklifts	3.40500E-002	3.18980E-001	3.94080E-001	5.30000E-004	1.91400E-002	1.76100E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.40700E-002	3.03230E-001	4.21690E-001	7.60000E-004	1.38200E-002	1.38200E-002	0.00000E+000	6.49989E+001	6.49989E+001	2.75000E-003	0.00000E+000	6.50677E+001
Graders	9.60000E-004	1.16300E-002	4.23000E-003	2.00000E-005	3.80000E-004	3.50000E-004	0.00000E+000	1.45344E+000	1.45344E+000	4.70000E-004	0.00000E+000	1.46519E+000
Pavers	1.73000E-003	1.69500E-002	2.59500E-002	4.00000E-005	8.00000E-004	7.30000E-004	0.00000E+000	3.71670E+000	3.71670E+000	1.20000E-003	0.00000E+000	3.74675E+000
Paving Equipment	2.30000E-003	2.16400E-002	3.45200E-002	6.00000E-005	1.05000E-003	9.70000E-004	0.00000E+000	4.83104E+000	4.83104E+000	1.56000E-003	0.00000E+000	4.87010E+000
Rollers	2.08000E-003	2.17400E-002	2.50100E-002	4.00000E-005	1.20000E-003	1.10000E-003	0.00000E+000	3.11206E+000	3.11206E+000	1.01000E-003	0.00000E+000	3.13722E+000
Rubber Tired Dozers	6.85000E-003	7.12700E-002	3.10600E-002	9.00000E-005	3.21000E-003	2.95000E-003	0.00000E+000	7.50242E+000	7.50242E+000	2.43000E-003	0.00000E+000	7.56309E+000
Tractors/Loaders/ Backhoes	4.86700E-002	4.92120E-001	7.33310E-001	1.02000E-003	2.35900E-002	2.17100E-002	0.00000E+000	8.98627E+001	8.98627E+001	2.90600E-002	0.00000E+000	9.05893E+001
Welders	2.82800E-002	1.61250E-001	1.92210E-001	2.90000E-004	5.93000E-003	5.93000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.29000E-003	0.00000E+000	2.17027E+001

Norwood Townhomes

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	2.14100E-002	1.44960E-001	2.08220E-001	3.40000E-004	7.57000E-003	7.57000E-003	0.00000E+000	2.93624E+001	2.93624E+001	1.70000E-003	0.00000E+000	2.94050E+001
Cement and Mortar Mixers	7.90000E-004	4.97000E-003	4.16000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	6.18670E-001	6.18670E-001	6.00000E-005	0.00000E+000	6.20280E-001
Cranes	3.44500E-002	3.69500E-001	1.81820E-001	5.80000E-004	1.54100E-002	1.41700E-002	0.00000E+000	5.10115E+001	5.10115E+001	1.65000E-002	0.00000E+000	5.14240E+001
Excavators	4.70000E-004	3.87000E-003	8.14000E-003	1.00000E-005	1.90000E-004	1.70000E-004	0.00000E+000	1.13422E+000	1.13422E+000	3.70000E-004	0.00000E+000	1.14339E+000
Forklifts	3.40500E-002	3.18980E-001	3.94080E-001	5.30000E-004	1.91400E-002	1.76100E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.40700E-002	3.03230E-001	4.21690E-001	7.60000E-004	1.38200E-002	1.38200E-002	0.00000E+000	6.49988E+001	6.49988E+001	2.75000E-003	0.00000E+000	6.50676E+001
Graders	9.60000E-004	1.16300E-002	4.23000E-003	2.00000E-005	3.80000E-004	3.50000E-004	0.00000E+000	1.45343E+000	1.45343E+000	4.70000E-004	0.00000E+000	1.46519E+000
Pavers	1.73000E-003	1.69500E-002	2.59500E-002	4.00000E-005	8.00000E-004	7.30000E-004	0.00000E+000	3.71669E+000	3.71669E+000	1.20000E-003	0.00000E+000	3.74674E+000
Paving Equipment	2.30000E-003	2.16400E-002	3.45200E-002	6.00000E-005	1.05000E-003	9.70000E-004	0.00000E+000	4.83103E+000	4.83103E+000	1.56000E-003	0.00000E+000	4.87009E+000
Rollers	2.08000E-003	2.17400E-002	2.50100E-002	4.00000E-005	1.20000E-003	1.10000E-003	0.00000E+000	3.11205E+000	3.11205E+000	1.01000E-003	0.00000E+000	3.13721E+000
Rubber Tired Dozers	6.85000E-003	7.12700E-002	3.10600E-002	9.00000E-005	3.21000E-003	2.95000E-003	0.00000E+000	7.50242E+000	7.50242E+000	2.43000E-003	0.00000E+000	7.56308E+000
Tractors/Loaders/Backhoes	4.86700E-002	4.92110E-001	7.33300E-001	1.02000E-003	2.35900E-002	2.17100E-002	0.00000E+000	8.98626E+001	8.98626E+001	2.90600E-002	0.00000E+000	9.05892E+001
Welders	2.82800E-002	1.61250E-001	1.92210E-001	2.90000E-004	5.93000E-003	5.93000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.29000E-003	0.00000E+000	2.17026E+001

Norwood Townhomes

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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.36229E-006	1.36229E-006	0.00000E+000	0.00000E+000	1.02023E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17620E-006	1.17620E-006	0.00000E+000	0.00000E+000	1.16677E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07920E-006	1.07920E-006	0.00000E+000	0.00000E+000	1.28466E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.22949E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	6.88023E-006	6.88023E-006	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.69056E-006	2.69056E-006	0.00000E+000	0.00000E+000	2.66898E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.06995E-006	2.06995E-006	0.00000E+000	0.00000E+000	2.05335E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.21331E-006	3.21331E-006	0.00000E+000	0.00000E+000	3.18754E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32221E-006
Tractors/Loaders/Backhoes	0.00000E+000	2.03202E-005	1.36368E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22409E-006	1.22409E-006	0.00000E+000	0.00000E+000	1.21427E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.23985E-007	9.23985E-007	0.00000E+000	0.00000E+000	9.21546E-007

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction			

Norwood Townhomes

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

No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	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	0.03	0.01	0.03	0.01	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.02	0.01	0.00	0.00
Grading	Roads	0.00	0.00	0.00	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	0.05	0.03	0.05	0.03	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Norwood Townhomes

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

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	3.78	6.81	6.73	8.36	7.75	7.88	0.00	8.50	8.50	5.57	6.63	8.47
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	6.14	4.71	0.48	0.41	4.03
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: Suburban Center

Mitigation Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
Yes	Land Use	Increase Transit Accessibility	0.08	0.50		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.08			

Norwood Townhomes

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

Yes	Neighborhood Enhancements	Improve Pedestrian Network	1.00	Project Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.01			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.09			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	4.50			
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	

Norwood Townhomes

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

No	Commute	Provide Ride Sharing Program	10.00			
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.09			

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)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

Norwood Townhomes

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

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	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Norwood Townhomes

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

APPENDIX B
PRE-DEVELOPMENT REPORT AND TREE INVENTORY

California Tree and Landscape Consulting, Inc.

April 26, 2021

David Cobbs
Baker-Williams Engineering Group
6020 Rutland Drive, Suite 19
Carmichael, CA 95608
Via email: dcobbs@bwengineers.com

PRE-DEVELOPMENT REPORT & TREE INVENTORY

RE: 4790 Norwood Avenue, Sacramento, APN 237-0040-001, County of Sacramento jurisdiction, California

Executive Summary:
David Cobbs of Baker-Williams Engineering Group, the civil engineer for the project, contacted California Tree and Landscape Consulting, Inc. on behalf of the property owner to inventory and evaluate the protected trees on the site or within 50' of development for purposes of evaluating the impacts to the trees from the proposed preliminary plans provided by Baker-Williams Engineering Group[1]. The property is the southeast corner of the intersection of Main Avenue & Norwood Avenue in Sacramento, California, and is subject to the jurisdiction of Sacramento County. See Supporting Information Appendix A –Tree Location Map.

Cory Kinley, ISA Certified Arborist #WE-9717A, was on the site on March 31, 2021. A total of 14 trees were included in the inventory. 4 trees [#9335, #9389, #9399 & #9400] are protected by the Sacramento County [OAK] Tree Preservation Ordinance 19.12, however, the other trees may still require permitting for removal[2].

Tree Species	Trees Inventoried	Trees on the Site	Protected by Sacramento County Tree Preservation, 19.12[2]	Trees Proposed for Removal	Trees requiring special protection measures and/or mitigation[3]
Protected (by species):					
Valley Oak, *Quercus lobata*	**2**	**2**	**2**	**2**	**0**
Northern California Black Walnut, *Juglans hindsii*	**2**	**2**	**2**	**2**	**0**
Non-Protected (by species):					
High Value Landscape species (Olive)	1	1	0	**1**	**0**
Low Value Landscape species (Purple Leaf Plum, Walnut, Fig, Cottonwood)	9	9	0	**9**	**0**
Totals	**14**	**14**	**4**	**14**	**0**

See Appendices for specific information on each tree.

[1] March 2021, Tentative subdivision map for Norwood Avenue Townhomes page 1 of 4. Job# 20-11-039

[2] [2] CalTLC is not a licensed land surveyor. Tree locations are approximate and we do not determine tree ownership. Trees which appear to be on another parcel are listed as off-site and treated as the property of that parcel. No evaluation of easement locations, such as required for street tree status, was conducted.

[3] Tree preservation pursuant to the zoning code at Sacramento County includes alternate protection standards for non-native species, mitigation trees previously planted, and commercial and/or multifamily residential landscapes. Trees not indicated within this report as 'protected' by the native oak tree preservation ordinance will still require permitting for removal and replacement. Old orchards and the fruit production trees are generally do not require any mitigation for removal.

Methods

Appendix B in this report is the detailed inventory and recommendations for the trees. The following terms and Table A – Ratings Description will further explain our findings.

A Level 2 – Basic Visual Assessment was performed in accordance with the International Society of Arboriculture's best management practices. This assessment level is limited to the observation of conditions and defects which are readily visible. Additional limiting factors, such as blackberries, poison oak, and/or debris piled at the base of a tree can inhibit the visual assessment.

Tree Location: The GPS location of each tree was collected using the ESRI's ArcGIS collector application on an Apple iPhone. The data was then processed in ESRI's ArcMap by Julie McNamara, M.S. GISci, to produce the tree location map.

Tree Measurements: DBH (diameter breast high) is normally measured at 4'6" (above the average ground height for "Urban Forestry"), but if that varies then the location where it is measured is noted. A steel diameter tape was used to measure the diameter. The step pacing method was used to measure distances. Canopy radius measurements may also have been estimated due to obstructions, such as steep slopes, fences, or other trees.

Terms

Field Tag #	The pre-stamped tree number on the tag which is installed at approximately 6 feet above ground level on the north side of the tree.
Old Tag #	If additional field tags are found on the trees and are legible, they are listed here.
Species	The species of a tree is listed by our local and correct common name and botanical name by genus (capitalized) and species (lower case). Oaks frequently cross-pollinate and hybridize, but the identification is towards the strongest characteristics.
DBH	Diameter breast high' is normally measured at 4'6" (above the average ground height for "Urban Forestry"), but if that varies then the location where it is measured is noted in the next column "measured at"
Measured at	Height above average ground level where the measurement of DBH was taken
Canopy radius and Protection Area	The farthest extent of the crown composed of leaves and small twigs. Most trees are not evenly balanced. This measurement represents the longest extension from the trunk to the outer canopy. The dripline measurement is from the center point of the tree and is shown on the Tree Location Map as a circle. This measurement further defines the protection zone and can indicate if pruning may be required for development. Sacramento County specifies this measurement as the required 'Protected Root Zone'
Critical Root Zone	The radius of the critical root zone is a circle equal to the trunk diameter inches converted to feet and factored by tree age, condition and health pursuant to the industry standard. Best Management Practices: Managing Trees During Construction, the companion publication to the Approved American National Standard, provides guidance regarding minimum tree root protection zones for long term survival. In instances where a tree is multi-stemmed the protected root zone is equal to the extrapolated diameter (sum of the area of each stem converted to a single stem) factored by tree age, condition and health.

Arborist Rating: Subjective to condition and is based on both the health and structure of the tree. All of the trees were rated for condition, per the recognized national standard as set up by the Council of Tree and Landscape Appraisers and the International Society of Arboriculture (ISA) on a numeric scale of 5 (being the highest) to 0 (the worst condition, dead) as in Chart A. The rating was done in the field at the time of the measuring and inspection.

Arborist Ratings			Sacramento County Ratings
No problem(s)	Excellent	**5**	Excellent
No apparent problem(s)	Good	**4**	Good
Minor problem(s)	Fair	**3**	Fair
Major problem(s)	Fair to Poor	**2**	Declining
Extreme problem(s)	Poor	**1**	Severe Decline
Dead	Dead	**0**	Dead

Rating #0: This indicates a tree that has no significant sign of life.
Rating #1: The problems are extreme. This rating is assigned to a tree that has structural and/or health problems that no amount of work or effort can change. The issues may or may not be considered a dangerous situation.
Rating #2: The tree has major problems. If the option is taken to preserve the tree, its condition could be improved with correct arboricultural work including, but not limited to: pruning, cabling, bracing, bolting, guying, spraying, mistletoe removal, vertical mulching, fertilization, etc. If the recommended actions are completed correctly, hazard can be reduced and the rating can be elevated to a 3. If no action is taken the tree is considered a liability and should be removed.
Rating #3: The tree is in fair condition. There are some minor structural or health problems that pose no immediate danger. When the recommended actions in an arborist report are completed correctly the defect(s) can be minimized or eliminated.
Rating #4: The tree is in good condition and there are no apparent problems that a Certified Arborist can see from a visual ground inspection. If potential structural or health problems are tended to at this stage future hazard can be reduced and more serious health problems can be averted.
Rating #5: No problems found from a visual ground inspection. Structurally, these trees have properly spaced branches and near perfect characteristics for the species. Highly rated trees are not common in natural or developed landscapes. No tree is ever perfect especially with the unpredictability of nature, but with this highest rating, the condition should be considered excellent.

Notes: Provide notable details about each tree which are factors considered in the determination of the tree rating including: (a) condition of root crown and/or roots; (b) condition of trunk; (c) condition of limbs and structure; (d) growth history and twig condition; (e) leaf appearance; and (f) dripline environment. Notes also indicate if the standard tree evaluation procedure was not followed (for example - why dbh may have been measured at a location other than the standard 54”). Additionally, notes will list any evaluation limiting factors such as debris at the base of a tree.

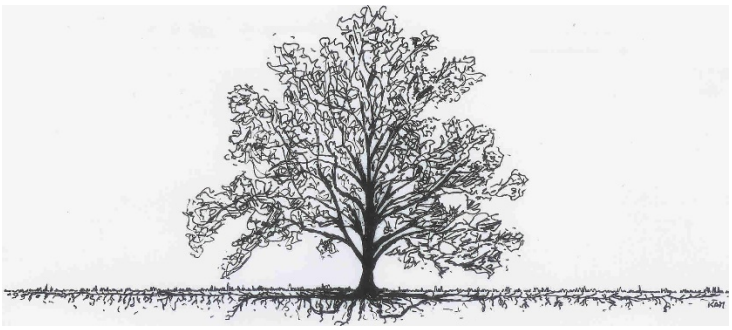
Discussion

Trees need to be protected from normal construction practices if they are to remain healthy and viable on the site. Our recommendations are based on experience and the County ordinance requirements to enhance tree longevity. This requires their root zones remain intact and viable despite the use of heavy equipment to install foundations, driveways, underground utilities, and landscape irrigation systems. Simply walking and driving on soil can have serious consequences for tree health. Tree Protection measures should be incorporated into the site plans in order to protect the trees.

Root Structure

The majority of a tree’s roots are contained in a radius from the main trunk outward approximately two to three times the canopy of the tree. These roots are located in the top 6” to 3’ of soil. It is a common misconception that a tree

underground resembles the canopy. The correct root structure of a tree is in the drawing below. All plants' roots need both water and air for survival. Poor canopy development or canopy decline in mature trees after development is often the result of inadequate root space and/or soil compaction.



The reality of where roots are generally located

Pruning Mature Trees for Risk Reduction and/or Development Clearance

There are few good reasons to prune mature trees. Removal of deadwood, directional pruning, removal of decayed or damaged wood, and end-weight reduction as a method of mitigation for structural faults are the only reasons a mature tree should be pruned. Live wood over 3" should not be pruned unless absolutely necessary. Pruning cuts should be clean and correctly placed. Pruning should be done in accordance with the American National Standards Institute (ANSI) A300 standards.

Pruning causes an open wound in the tree. Trees do not "heal" they compartmentalize. It is far better to use more small cuts than a few large cuts as small pruning wounds reduce risk while large wounds increase risk. Any wound made today will always remain, but a healthy tree, in the absence of decay in the wound, will 'cover it' with callus tissue. Large, old pruning wounds which did not close with callous tissue often have advanced decay. These wounds are a likely failure point. Mature trees with large wounds have a high risk of failure.

Overweight limbs are a common structural fault in suppressed trees. There are two remedial actions for over- weight limbs (1) prune the limb to reduce the extension of the canopy, or (2) cable the limb to reduce movement. Cables do not hold weight they only stabilize the limb and additionally require annual inspection.

Arborist Classifications

There are different types of Arborists:

Tree Removal and/or Pruning Companies: These companies may be licensed by the State of California to do business as a tree removal company, but they do not necessarily know anything about trees biology.

Arborists: Arborist is a broad term intended to mean someone with specialized knowledge of trees, but it is often used to imply knowledge that is not there.

ISA Certified Arborist: An International Society of Arboriculture Certified Arborist is someone who has trained, met the qualifications for application, and been tested to have specialized knowledge of trees. You can look up certified arborists at the International Society of Arboriculture website: isa-arbor.org.

Consulting Arborist: An American Society of Consulting Arborists Registered Consulting Arborist is someone who has been trained and then tested to have specialized knowledge of trees; and trained and tested to provide high quality reports and documentation. You can look up registered consulting arborists at the American Society of Consulting Arborists website: ASCA-consultants.org.

RECOMMENTATIONS: Summary of Tree Protection Measures

The Owner and/or Developer should ensure the project arborist's protection measures are incorporated into the site plans and followed. Tree specific protection measures can be found in Appendix 2 – Tree Information Data.

- Follow the General Development Guidelines, Appendix 3, for all trees to be preserved on and off the site, unless otherwise indicated in the individual tree recommendations, Appendix 2.

Report Prepared by:

R. Cory Kinley
ISA Certified Arborist #WC-9717A, TRAQ

Reviewed By:

Nicole Harrison
ISA Certified Arborist #WC-6500AM, TRAQ
Registered Consulting Arborist #719

Attachments

Appendix 1 – Tree Location Map
Appendix 2 – Tree Data
Appendix 3 – General Development Guidelines
Appendix 4 – Site Photographs

Bibliography

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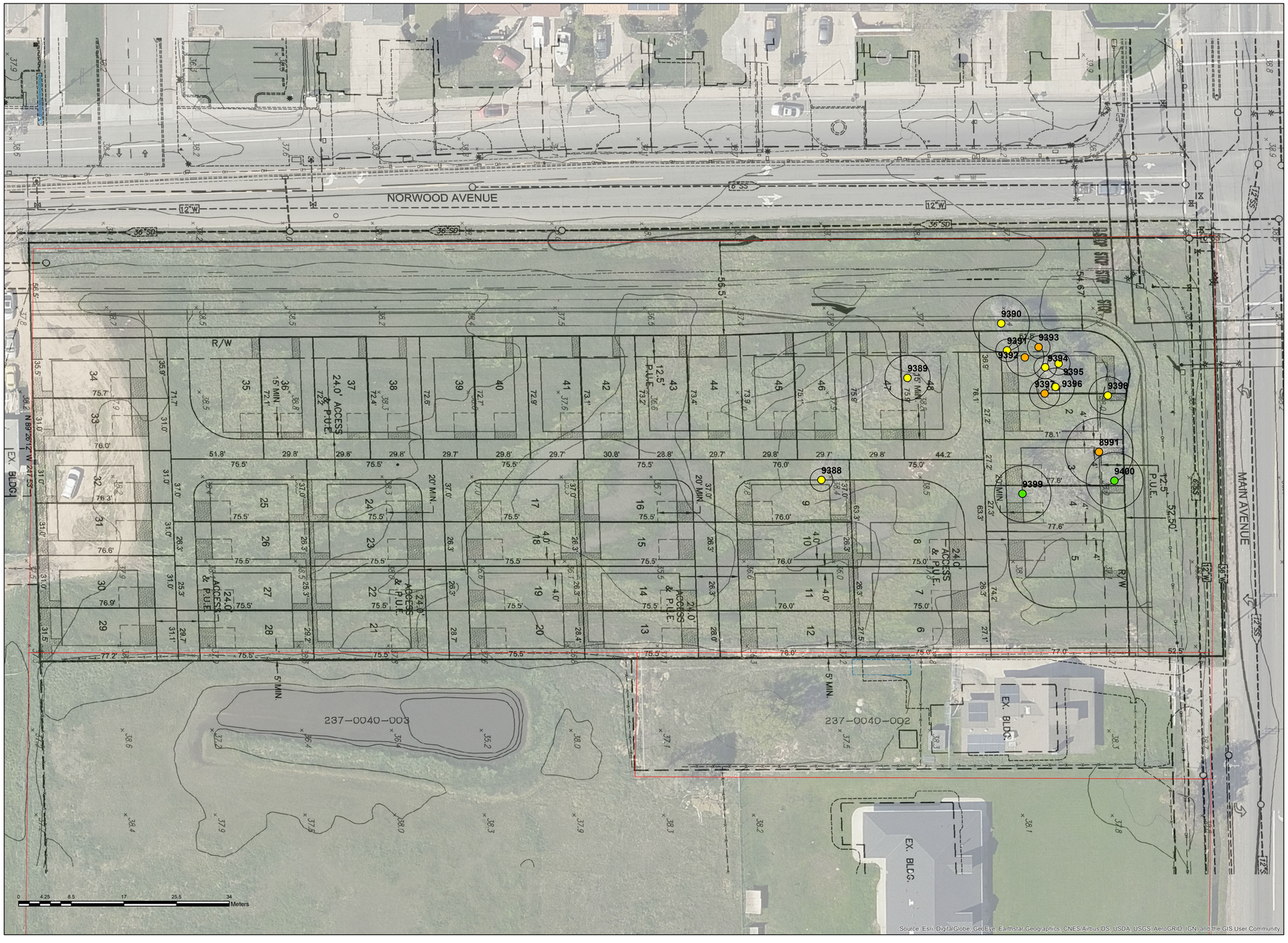
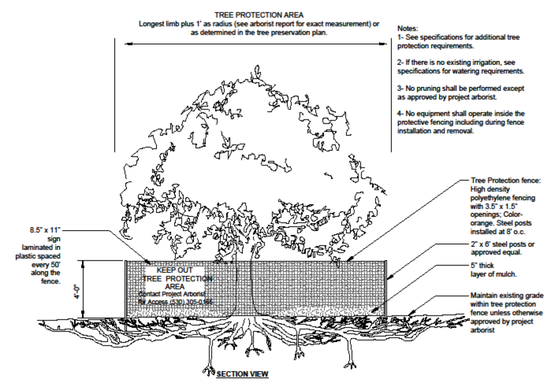


California Tree & Landscape Consulting, Inc.

1243 High Street
Auburn, CA 95603

TREE PROTECTION GENERAL REQUIREMENTS

1. The project arborist for this project is California Tree & Landscape Consulting. The primary contact information is Nicole Harrison (530) 305-0165. The project arborist may continue to provide expertise and make additional recommendations during the construction process if and when additional impacts occur or tree response is poor. Monitoring and construction oversight by the project arborist is recommended for all projects and required when a final letter of assessment is required by the jurisdiction.
2. The project arborist should inspect the exclusionary root protection fencing installed by the contractors prior to any grading and/or grubbing for compliance with the recommended protection zones. Additionally, the project arborist shall inspect the fencing at the onset of each phase of construction. The root protection zone for trees is specified as the 'canopy radius' in Appendix 2 in the arborist report unless otherwise specified by the arborist. Note 'dripline' is not an acceptable location for installation of tree protection fencing.
3. The project arborist should directly supervise any clearance pruning, irrigation, fertilization, placement of mulch and/or chemical treatments. If clearance pruning is required, the Project Arborist should approve the extent of foliage elevation and oversee the pruning to be performed by a contractor who is an ISA Certified Arborist. Clearance pruning should include removal of all the lower foliage that may interfere with equipment PRIOR to having grading or other equipment on site.
4. No trunk within the root protection zone of any trees shall be removed using a backhoe or other piece of grading equipment.
5. Clearly designate an area on the site that is outside of the protection area of all trees where construction materials may be stored, and parking can take place. No materials or parking shall take place within the protection zones of any trees on or off the site.
6. Any and all work to be performed inside the protected root zone fencing, including all grading and utility trenching, shall be approved and/or supervised by the project arborist.
7. Trenching, if required, inside the protected root zone shall be approved and/or supervised by the project arborist and may be required to be performed by hand, by a hydraulic or air spade, or other method which will place pipes underneath the roots without damage to the roots.
8. The root protection zone for trees is specified as the 'canopy radius' in Appendix 2 in the arborist report unless otherwise specified by the arborist. Note 'dripline' is not an acceptable location for installation of tree protection fencing.



S-X TREE PROTECTION

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TREE INVENTORY MAP

>Tree locations are approximate and were collected using ISO apple products.
>Property line information was downloaded from Sacramento County on 04/02/2021.
>Development plans provided by Baker Williams Engineering dated 03/2021.

Property Line
Measured Tree Canopy
Tree Protection Fencing

Arborist Rating
- 0 Dead
- 1 Extreme Structure or Health Problems
- 2 Major Structure or Health Problems
- 3 Fair - Minor Problems
- 4 Good - No Apparent Problems
- 5 Excellent

NORWOOD AVE TOWNHOMES

4790 Norwood Ave
Sacramento, Sacramento County, CA

Sheet No.
TPP 1.0

West 247.5 Feet of Lot 8 of Rancho Del Paso - 14 Maps 5

Date: 4/2/2021

Appendix 2 – Tree Data

Tag #	Species Common Name	Species Scientific Name	DBH (in.)	Measured At (ft.)	Measured Canopy Radius (ft.)	Arborist Rating	Development Status	Notes
9388	Plum	*Prunus sp.*	7.9	12	6	2 Major Structure or Health Problems	Proposed for Removal	Multi stem at ground, weak attachments, crossing branches, trunk cavities
9389	Northern CA Black Walnut	*Juglans hindsii*	17	54	12	2 Major Structure or Health Problems	Proposed for Removal	Multi stem at ground, weak attachments, crossing stems, inclusions
9390	Fig	*Ficus carica*	14.3	54	15	2 Major Structure or Health Problems	Proposed for Removal	Multi stem at ground, weak attachments, crossing stems, dead stems, one sided canopy west
9391	Fig	*Ficus carica*	5.7	54	6	2 Major Structure or Health Problems	Proposed for Removal	Multi stem at ground, weak attachments, crossing stems, dead stems, trunk cavities, one sided canopy south
9392	Plum	*Prunus sp.*	11	54	10	1 Extreme Structure or Health Problems	Proposed for Removal	Failed at base, laying on ground, weak attachments, crossing stems, dead stems, trunk cavities, one sided canopy south
9393	Plum	*Prunus sp.*	7.5	54	6	1 Extreme Structure or Health Problems	Proposed for Removal	Failed at base, laying on ground, weak attachments, crossing stems, dead stems, trunk cavities, very poor vigor, one sided canopy north
9394	Plum	*Prunus sp.*	4.5	54	6	2 Major Structure or Health Problems	Proposed for Removal	Multi stem at base, weak attachments, crossing stems, dead stems, trunk cavities, poor vigor
9395	Valley Oak	*Quercus lobata*	8	42	6	2 Major Structure or Health Problems	Proposed for Removal	1 foot adjacent to tree south. Codominant at 4 feet..

Tag #	Species Common Name	Species Scientific Name	DBH (in.)	Measured At (ft.)	Measured Canopy Radius (ft.)	Arborist Rating	Development Status	Notes
9396	Olive	*Olea europaea*	9	54	10	2 Major Structure or Health Problems	Proposed for Removal	Leaning west, basal & trunk cavities, broken top
9397	Plum	*Prunus sp.*	10	24	8	1 Extreme Structure or Health Problems	Proposed for Removal	Failed at base, laying on ground, weak attachments, crossing stems, dead stems, trunk cavities, one sided canopy north
9398	Plum	*Prunus sp.*	11	12	10	2 Major Structure or Health Problems	Proposed for Removal	Multi stem at base, weak attachments, crossing stems, dead stems, trunk cavities, poor vigor
9399	Northern CA Black Walnut	*Juglans hindsii*	12	36	15	3 Fair - Minor Problems	Proposed for Removal	Broken branches, tip die back, above average dead branches
9400	Valley Oak	*Quercus lobata*	10	54	15	3 Fair - Minor Problems	Proposed for Removal	Moderate lean south, codominant top
8991	Fremont Cottonwood	*Populus fremontii*	19	54	18	1 Extreme Structure or Health Problems	Proposed for Removal	No top, main stem failure at 12 feet, trunk cavities, 20 percent foliage remaining, multiple stem and branch failures, one sided canopy west

Appendix 3
General Practices for Tree Protection

Definitions

Root zone: The roots of trees grow fairly close to the surface of the soil, and spread out in a radial direction from the trunk of tree. A general rule of thumb is that they spread 2 to 3 times the radius of the canopy, or 1 to 1 ½ times the height of the tree. It is generally accepted that disturbance to root zones should be kept as far as possible from the trunk of a tree.

Inner Bark: The bark on large valley oaks and coast live oaks is quite thick, usually 1" to 2". If the bark is knocked off a tree, the inner bark, or cambial region, is exposed or removed. The cambial zone is the area of tissue responsible for adding new layers to the tree each year, so by removing it, the tree can only grow new tissue from the edges of the wound. In addition, the wood of the tree is exposed to decay fungi, so the trunk present at the time of the injury becomes susceptible to decay. Tree protection measures require that no activities occur which can knock the bark off the trees.

Methods Used in Tree Protection:

No matter how detailed Tree Protection Measures are in the initial Arborist Report, they will not accomplish their stated purpose unless they are applied to individual trees and a Project Arborist is hired to oversee the construction. The Project Arborist should have the ability to enforce the Protection Measures. The Project Arborist should be hired as soon as possible to assist in design and to become familiar with the project. He must be able to read and understand the project drawings and interpret the specifications. He should also have the ability to cooperate with the contractor, incorporating the contractor's ideas on how to accomplish the protection measures, wherever possible. It is advisable for the Project Arborist to be present at the Pre-Bid tour of the site, to answer questions the contractors may have about Tree Protection Measures. This also lets the contractors know how important tree preservation is to the developer.

Root Protection Zone (RPZ): Since in most construction projects it is not possible to protect the entire root zone of a tree, a Root Protection Zone is established for each tree to be preserved. The minimum Root Protection Zone is the area underneath the tree's canopy (out to the dripline, or edge of the canopy), plus 10'. The Project Arborist must approve work within the RPZ.

Irrigate, Fertilize, Mulch: Prior to grading on the site near any tree, the area within the Tree Protection fence should be fertilized with 4 pounds of nitrogen per 1000 square feet, and the fertilizer irrigated in. The irrigation should percolate at least 24 inches into the soil. This should be done no less than 2 weeks prior to grading or other root disturbing activities. After irrigating, cover the RPZ with at least 12" of leaf and twig mulch. Such mulch can be obtained from chipping or grinding the limbs of any trees removed on the site. Acceptable mulches can be obtained from nurseries or other commercial sources. Fibrous or shredded redwood or cedar bark mulch shall not be used anywhere on site.

Fence: Fence around the Root Protection Zone and restrict activity therein to prevent soil compaction by vehicles, foot traffic or material storage. The fenced area shall be off limits to all construction equipment, unless there is express written notification provided by the Project Arborist, and impacts are discussed and mitigated prior to work commencing.

No storage or cleaning of equipment or materials, or parking of any equipment can take place within the fenced off area, known as the RPZ.

The fence should be highly visible, and stout enough to keep vehicles and other equipment out. I recommend the fence be made of orange plastic protective fencing, kept in place by t-posts set no farther apart than 6'.

In areas of intense impact, a 6' chain link fence is preferred.

In areas with many trees, the RPZ can be fenced as one unit, rather than separately for each tree.

Where tree trunks are within 3' of the construction area, place 2" by 4" boards vertically against the tree trunks, even if fenced off. Hold the boards in place with wire. Do not nail them directly to the tree. The purpose of the boards is to protect the trunk, should any equipment stray into the RPZ.

Elevate Foliage: Where indicated, remove lower foliage from a tree to prevent limb breakage by equipment. Low foliage can usually be removed without harming the tree, unless more than 25% of the foliage is removed. Branches need to be removed at the anatomically correct location in order to prevent decay organisms from entering the trunk. For this reason, a contractor who is an ISA Certified Arborist should perform all pruning on protected trees.[4]

Expose and Cut Roots: Breaking roots with a backhoe, or crushing them with a grader, causes significant injury, which may subject the roots to decay. Ripping roots may cause them to splinter toward the base of the tree, creating much more injury than a clean cut would make. At any location where the root zone of a tree will be impacted by a trench or a cut (including a cut required for a fill and compaction), the roots shall be exposed with either a backhoe digging radially to the trunk, by hand digging, or by a hydraulic air spade, and then cut cleanly with a sharp instrument, such as chainsaw with a carbide chain. Once the roots are severed, the area behind the cut should be moistened and mulched. A root protection fence should also be erected to protect the remaining roots, if it is not already in place. Further grading or backhoe work required outside the established RPZ can then continue without further protection measures.

Protect Roots in Deeper Trenches: The location of utilities on the site can be very detrimental to trees. Design the project to use as few trenches as possible, and to keep them away from the major trees to be protected. Wherever possible, in areas where trenches will be very deep, consider boring under the roots of the trees, rather than digging the trench through the roots. This technique can be quite useful for utility trenches and pipelines.

Protect Roots in Small Trenches: After all construction is complete on a site, it is not unusual for the landscape contractor to come in and sever a large number of "preserved" roots during the installation of irrigation systems. The Project Arborist must therefore approve the landscape and irrigation plans. The irrigation system needs to be designed so the main lines are located outside the root zone of major trees, and the secondary lines are either laid on the surface (drip systems), or carefully dug with a hydraulic or air spade, and the flexible pipe fed underneath the major roots.

[4] International Society of Arboriculture (ISA), maintains a program of Certifying individuals. Each Certified Arborist has a number and must maintain continuing education credits to remain Certified.

Design the irrigation system so it can slowly apply water (no more than ¼" to ½" of water per hour) over a longer period of time. This allows deep soaking of root zones. The system also needs to accommodate infrequent irrigation settings of once or twice a month, rather than several times a week.

Monitoring Tree Health During and After Construction: The Project Arborist should visit the site at least twice a month during construction to be certain the tree protection measures are being followed, to monitor the health of impacted trees, and make recommendations as to irrigation or other needs. After construction is complete, the arborist should monitor the site monthly for one year and make recommendations for care where needed. If longer term monitoring is required, the arborist should report this to the developer and the planning agency overseeing the project.

Appendix 4
Site Photographs

Top: View of trees facing north Bottom: View of trees facing south.

APPENDIX C
AQUATIC RESOURCES DELINEATION

AQUATIC RESOURCES DELINEATION
FOR THE

±3-ACRE NORWOOD AVENUE TOWNHOMES STUDY AREA

SACRAMENTO COUNTY, CALIFORNIA

Prepared for:
Norwood North LLC
7225 26th Street
Rio Linda, CA 95673

Prepared by:

Salix consulting, inc.
11601 Blocker Drive, Ste. 100
Auburn, California 95603
(530) 888-0130

JULY 2021

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TABLES

APPENDICES

AQUATIC RESOURCES DELINEATION FOR THE ±3-ACRE NORWOOD AVENUE TOWNHOMES STUDY AREA

INTRODUCTION

Location and Setting

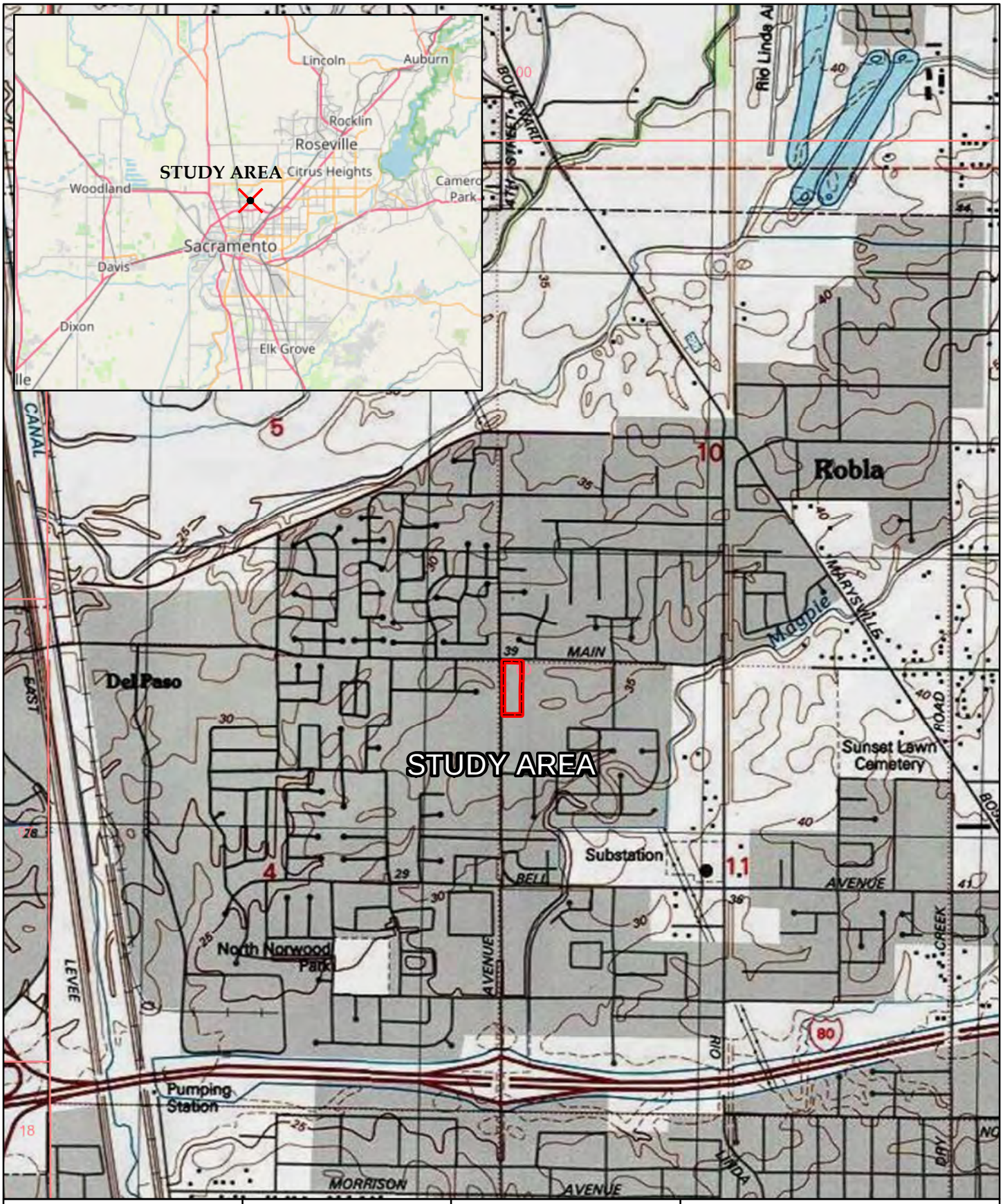
Salix Consulting, Inc. (Salix) prepared an Aquatic Resources delineation for the ±3-acre Norwood Avenue Townhomes study area located at 4790 Norwood Avenue at the intersection of Norwood Avenue and Main Avenue, in unincorporated Sacramento County, California. The approximate coordinates for the center of the property are 38°39′14.77″ N and 121° 27′23.10″ W. It is situated within the Del Paso Land Grant, Civil Colonies, which was not part of the Township/Range system. It is located in the Rio Linda 7.5-minute USGS topographic quadrangle (Figure 1).

The site is situated in the Sacramento Valley at an elevation of approximately 40 feet. The study area is bounded on the north and west by residential subdivisions, on the east and south by rural residential development. The study area is undeveloped and is regularly disked (Figure 2).

CONTACT INFORMATION

Applicant:
Norwood North LLC
7225 26th Street
Rio Linda, CA 95673
Contact: Jeremy Jaeger

Delineated by:
Salix Consulting, Inc.
11601 Blocker Drive, Suite 100
Auburn, California 95603
Phone: (530) 888-0130
Contact: Jeff Glazner



Salix consulting, inc.

N

0 1,000 2,000

Feet

Source Maps: USGS Topographic Map
Rio Lindal Quad 1:24,000
Del Paso Land Grant T9N R5E

Figure 1

SITE AND VICINITY MAP

Norwood Avenue Townhomes

Sacramento County, CA

Salix consulting, inc.

N

0 50 100

Feet

Study Area (±3.13 acres)

Imagery: 5-1-21 Salix Consulting, Inc.

Figure 2

AERIAL MAP

Norwood Avenue Townhomes

Sacramento County, CA

METHODOLOGY

Aquatic resources were delineated on April 22, 2021, and on May 1, 2021, by Jeff Glazner of Salix Consulting using the 1987 Corps Manual (Environmental Laboratory 1987) as amended by the Arid West Regional Supplement (U.S. Army Corps of Engineers 2008). The site was observed on foot, and potential aquatic resources were evaluated and mapped. In addition, an Unmanned Aerial Vehicle (UAV) was utilized to generate a current aerial photo and oblique photos of the study area, which are used in this report Three-parameter data sheets (Appendix A) were filled out at four (4) locations as indicated on the Aquatic Resources Delineation Map. Features were mapped using a Trimble GeoXT 6000 GPS (submeter).

U.S. Department of Agriculture – National Resource Conservation Service's online Web Soil Survey (NRCS 2021) was assessed to identify mapped soils. Appendix B is a list of plants observed on the property. Where a plant species observed has a wetland indicator status (not UPL), plant nomenclature follows the National Wetland Plant List, version 3.4 (USACE 2018), Otherwise, plant nomenclature is according to *The Jepson Flora Project (Jepson eflora)*. The Corps of Engineers Aquatic Resources spreadsheet is included in Appendix C.

FINDINGS

Climate

Sacramento has a hot-summer Mediterranean climate, characterized by very hot, dry summers and mild to cool winters with occasional rainfall. The wet season is generally October through April; there may be a day or two of light rainfall in June or September. The hot season lasts for 3.7 months, from June 5 to September 26, with an average daily high temperature above 86°F. The cool season lasts for 2.9 months, from November 22 to February 18, with an average daily high temperature below 62°F. Summer heat is sometimes moderated by a sea breeze known as the "delta breeze" which comes through the Sacramento–San Joaquin River Delta from the San Francisco Bay, and temperatures cool down sharply at night.

The foggiest months are December and January. Tule fog can be extremely dense, lowering visibility to less than 100 feet. Chilling tule fog events have been known to last for several consecutive days or weeks. During tule fog events, temperatures do not exceed 50 F.

The average annual precipitation is 18.52 inches, nearly all falling in the winter months. Snowfall is rare. The 2021 rain year was well below normal with very little rain falling in the spring.

Soils

One soil unit has been mapped within the study area– San Joaquin fine sandy loam, 0 to 3 percent slopes (NRCS 2021) (Figure 3).

Salix consulting, inc.

N

0 150 300

Feet

Study Area (±3.13 acres)

Imagery: Baker Williams Engineering

Figure 3

SOIL COMPONENTS

Norwood Avenue Townhomes

Sacramento County, CA

San Joaquin fine sandy loam, 0 to 3 percent slopes

The **San Joaquin component** makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on valleys, low terraces. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer, duripan, is 35 to 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3s. Irrigated land capability classification is 3s. This soil does not meet hydric criteria.

This soil series may include inclusions of the Dierseen Series, which can have components of dense clay (Clear Lake, Galt) and have cracks that open to the surface. We observed these characteristics in the area where aquatic resources are mapped, but not anywhere else on the property.

Hydrology

The site occurs in the Lower Steelhead Creek HUC12 watershed (180201110303) part of the greater Lower American HUC8 watershed (18020111). Water on site trends presumably south towards Magpie Creek (1/3 mile south of the project site) through a series of roadside ditches and culverts and underground drainage systems. Magpie Creek flows south for less than a half-mile before entering a series of ditches along Interstate 80. These ditches flow a mile westerly before entering Steelhead Creek. Steelhead Creek flows 5 miles south until entering the Lower American River near Discovery Park and the Sacramento River.

Vegetation

The study area is primarily annual grassland that has been disturbed from regular disking. Landcover types are summarized in Table 1 below.

Table 1.
Landcover Types Present within the
Norwood Avenue Townhomes Study Area

Biological Community	Acreage
Ruderal Annual Grassland	3.1

The entire study area, except for the area around the woody vegetation in the northern area, is regularly disked and maintained. Species growing on the site are almost entirely weedy and annual. A grove of trees and shrubs occurs in the northern area and includes cottonwood, valley oak, northern California black walnut, plum, fruitless mulberry, fig, and a dense clump of giant reed. The footprint of these species is relatively small, and they are included in the ruderal habitat.

The most common species on the site during the site evaluations were wild oat (*Avena fatua*) and ripgut grass (*Bromus diandrus*). Other common species observed were Italian rye grass (*Festuca perennis*), broad leaf filaree (*Erodium botrys*), vetch (*Vicia villosa*), yellow star thistle (*Centaurea solstitialis*), rose clover (*Trifolium hirtum*), soft chess (*Bromus hordeaceus*), foxtail barley (*Hordeum murinum*), Bermuda grass (*Cynodon dactylon*), and ruby sand-spurrey (*Spergularia rubra*).

Aquatic Resources

The study area contains remnant depressions that show evidence of prolonged saturation. Four small basins have been identified that occur on distinctly different soils characterized as "dense clay" from visual observation. It is our presumption that this area of the site contains a clay inclusion that impedes percolation. The shallow basins behave as marginal wetlands as they support facultative grasses (Italian rye grass and Mediterranean barley) as well as an algal mat.

Table 2 summarizes the mapped aquatic resources. Representative site photos are presented in Figures 4a, 4b, and 4c. Figure 5 is the map of aquatic resources.

Table 2.
Norwood Avenue Townhomes Aquatic Resources

Type	Acreage
Seasonal Wetland	
SW-1	0.007
SW-2	0.005
SW-3	0.006
SW-4	0.009
Total	0.026

Seasonal Wetlands

Four seasonal wetland basins are mapped on the property. The features were first observed on December 4, 2020, then on April 22, 2021, and on May 1, 2021. The site was disked in the fall of 2020, and on April 30, 2021, so the basins were mostly lacking vegetation during the first and last site visits. During April, the grasses were growing robustly, and algal matting was present, but none of the basins were ponding or saturated.

Looking northwest over study area. *Photo Date 5-1-21.*

Looking northeast over study area. Grey soils near center of site represents a dense clay inclusion and areas of perched water during winter. *Photo Date 5-1-21.*

Salix consulting, inc.

Figure 4a

AERIAL SITE PHOTOS

Norwood Avenue Townhomes

Sacramento County, CA

Looking south over area with mapped wetlands. *Photo Date 4-22-21.*

Looking south from near northeast corner of study area.
Photo Date 12-4-20.

Salix consulting, inc.

Figure 4b

SITE PHOTOS

Norwood Avenue Townhomes

Sacramento County, CA

Looking into depression mapped as SW-1. Facultative grasses and algal matting observed. *Photo Date 4-22-21.*

Looking into depression mapped as SW-3. Facultative grasses and algal matting observed. *Photo Date 4-22-21.*

Salix consulting, inc.

Figure 4c

SITE PHOTOS

Norwood AvenueTownhomes

Sacramento County, CA

Aquatic Resources

Seasonal Wetland	Acreage
SW-1	0.007
SW-2	0.005
SW-3	0.006
SW-4	0.009
Subtotal:	**0.026**

Total 0.026 Acre

Prepared By:

Salix consulting, inc.

Prepared For:

Norwood North LLC
7225 26th Street
Rio Linda, CA 95673

DELINEATED BY: J. Glazner April-May 2021
DRAWN BY: H. Gallant
COORDINATE SYSTEM: NAD83 State Plane II USFT
IMAGERY: Baker-Williams Engineering Group

Study Area (±3.13 acres)
Seasonal Wetlands (±0.03 acre)
Upland Data Point
Wetland Data Point

Figure 5

AQUATIC RESOURCES DELINEATION MAP

Norwood Townhomes

Sacramento County, CA

July 19, 2021

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Appendix A.
Wetland Data Sheets

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Norwood Avenue Townhomes City/County: Sacramento County Sampling Date: 4-22 & 5-1-21

Applicant/Owner: Norwood North LLC State: CA Sampling Point: 01

Investigator(s): Jeff Glazner Section, Township, Range: Del Paso Land Grant T9N R5E

Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): concave Slope (%): 0

Subregion (LRR): LRR C Lat: 38.653876 Long: -121.456388 Datum: NAD83

Soil Map Unit Name: San Joaquin fine sandy loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No _____	**Is the Sampled Area within a Wetland?** Yes ✓ No _____
Hydric Soil Present?	Yes ✓	No _____	
Wetland Hydrology Present?	Yes ✓	No _____	

Remarks:

Depressional area with dense, cracked clay. Facultative grasses. Basin observed on April 22. Low water year.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. Festuca perennis	60	X	FAC
2. Hordeum marinum	20	X	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	80 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 20 % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	_____	x 1 = _____
FACW species	_____	x 2 = _____
FAC species	_____	x 3 = _____
FACU species	_____	x 4 = _____
UPL species	_____	x 5 = _____
Column Totals:	_____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

✓ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks:

Grassy depression.

SOIL

Sampling Point: 01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/1	90	5YR 4/6	10	C	M	clayey lo	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ✓ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

Prominent redox in dark clay.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ✓ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ✓ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes ✓ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Well-defined basin with evidence of seasonal saturation.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Norwood Avenue Townhomes City/County: Sacramento County Sampling Date: 4-22 & 5-1-21

Applicant/Owner: Norwood North LLC State: CA Sampling Point: 02

Investigator(s): Jeff Glazner Section, Township, Range: Del Paso Land Grant T9N R5E

Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): flat Slope (%): 2

Subregion (LRR): LRR C Lat: 38.653852 Long: -121.456425 Datum: NAD83

Soil Map Unit Name: San Joaquin fine sandy loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✓	**Is the Sampled Area within a Wetland?** Yes _____ No ✓
Hydric Soil Present?	Yes _____	No ✓	
Wetland Hydrology Present?	Yes _____	No ✓	

Remarks:

Upland comparison to data point 01. Outside of basin.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. Avena fatua	30	X	UPL
2. Bromus diandrus	25	X	UPL
3. Bromus hordeaceus	20	X	FACU
4. Festuca perennis	10		FAC
5.			
6.			
7.			
8.			
	85 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 15 % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	10	x 3 =	30
FACU species	20	x 4 =	80
UPL species	55	x 5 =	275
Column Totals:	85 (A)		385 (B)

Prevalence Index = B/A = 4.5

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ✓

Remarks:

Weedy upland grass species.

SOIL

Sampling Point: 02

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/3	100					clayey lo	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: ___

Depth (inches): ___

Hydric Soil Present? Yes ___ No ✓

Remarks:

Clay component less than in basin bottom.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): ___

Water Table Present? Yes ___ No ✓ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): ___

Wetland Hydrology Present? Yes ___ No ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Lacks evidence of seasonal saturation. Outside of basin.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Norwood Avenue Townhomes City/County: Sacramento County Sampling Date: 4-22 & 5-1-21

Applicant/Owner: Norwood North LLC State: CA Sampling Point: 03

Investigator(s): Jeff Glazner Section, Township, Range: Del Paso Land Grant T9N R5E

Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): concave Slope (%): 0

Subregion (LRR): LRR C Lat: 38.654047 Long: -121.456218 Datum: NAD83

Soil Map Unit Name: San Joaquin fine sandy loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No _____	**Is the Sampled Area within a Wetland?** Yes ✓ No _____
Hydric Soil Present?	Yes ✓	No _____	
Wetland Hydrology Present?	Yes ✓	No _____	

Remarks:

Depressional area with evidence of seasonal saturation.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. Festuca perennis	50	X	FAC
2. Hordeum marinum	20	X	FAC
3. Poa annua	10		FAC
4.			
5.			
6.			
7.			
8.			
	80 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 20 % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	_____	x 1 = _____
FACW species	_____	x 2 = _____
FAC species	_____	x 3 = _____
FACU species	_____	x 4 = _____
UPL species	_____	x 5 = _____
Column Totals:	_____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

✓ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks:

Grassy depression.

SOIL

Sampling Point: 03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/1	90	5YR 4/6	10	C	M	clayey lo	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ✓ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

Clayey depression. Prominent redox.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ✓ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ✓ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ✓ Depth (inches): _____

Water Table Present? Yes ___ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ___ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes ✓ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Evidence of seasonal saturation.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Norwood Avenue Townhomes City/County: Sacramento County Sampling Date: 4-22 & 5-1-21

Applicant/Owner: Norwood North LLC State: CA Sampling Point: 04

Investigator(s): Jeff Glazner Section, Township, Range: Del Paso Land Grant T9N R5E

Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 2

Subregion (LRR): LRR C Lat: 38.654071 Long: -121.456188 Datum: NAD83

Soil Map Unit Name: San Joaquin fine sandy loam, 0 to 3 percent slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✓	**Is the Sampled Area within a Wetland?** Yes _____ No ✓
Hydric Soil Present?	Yes _____	No ✓	
Wetland Hydrology Present?	Yes _____	No ✓	

Remarks:

Upland comparison to data point 03. Located just outside of basin on slope above wetland.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. Festuca perennis	30	X	FAC
2. Avena fatua	30	X	UPL
3. Bromus diandrus	20	X	UPL
4. Aira caryophyllea	5		FACU
5.			
6.			
7.			
8.			
	85 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1.			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 15 % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	30	x 3 =	90
FACU species	5	x 4 =	20
UPL species	50	x 5 =	250
Column Totals:	85 (A)		360 (B)

Prevalence Index = B/A = 4.2

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ✓

Remarks:

Grassy area in and out of basin.

SOIL

Sampling Point: 04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox %	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 4/2	100					clayey lo	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** ✓

Remarks:

Just out of basin and dense dark clayey area.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Above wetland and area of seasonal saturation.

Appendix B
Plant Species Observed

Appendix B: Norwood Avenue Plants Observed - April/May 2021

Taxon	Common Name	Wetland Status
Achyrachaena mollis	Blow-wives	FAC
Acmispon americanus	Spanish lotus	UPL
Aira caryophyllea	Silver European hairgrass	FACU
Amsinckia menziesii	Rancher's fireweed	UPL
Arundo donax	Giant reed	FACW
Avena fatua	Wild oat	UPL
Brassica nigra	Black mustard	UPL
Bromus diandrus	Ripgut grass	UPL
Bromus hordeaceus	Soft chess	FACU
Bromus madritensis	Foxtail brome	UPL
Carduus pycnocephalus	Italian thistle	UPL
Centaurea solstitialis	Yellow starthistle	UPL
Centromadia fitchii	Fitch's spikeweed	FACU
Chenopodium album	White pigweed	FACU
Cichorium intybus	Chicory	FACU
Convolvulus arvensis	Bindweed	UPL
Croton setiger	Turkey mullein	UPL
Cynodon dactylon	Bermudagrass	FACU
Dittrichia graveolens	Stinkwort	UPL
Elymus caput-medusae	Medusahead	UPL
Epilobium brachycarpum	Summer cottonweed	UPL
Erigeron canadensis	Canadian horseweed	FACU
Erodium botrys	Broad-leaf filaree	FACU
Erodium cicutarium	Red-stem filaree	UPL
Festuca myuros	Rattail sixweeks grass	FACU
Festuca perennis	Italian ryegrass	FAC
Ficus carica	Common fig	FACU
Geranium molle	Dove's-foot geranium	UPL
Helminthotheca echioides	Bristly ox-tongue	FAC
Hirschfeldia incana	Short-podded mustard	UPL
Holocarpha virgata subsp. virgata	Virgate tarweed	UPL
Hordeum marinum subsp. gussoneanum	Mediterranean barley	FAC
Hordeum murinum	Wall barley	FACU
Hypochaeris glabra	Smooth cat's-ear	UPL
Juglans hindsii	Northern California black walnut	FAC
Lactuca serriola	Prickly lettuce	FACU
Leontodon saxatilis	Long-beaked hawkbit	FACU
Lupinus bicolor	Miniature lupine	UPL

Taxon	Common Name	Wetland Status
Matricaria discoidea	Pineapple-weed	FACU
Medicago polymorpha	California burclover	FACU
Morus alba	White mulberry	FACU
Olea europaea	Olive	UPL
Plantago lanceolata	English plantain	FAC
Poa annua	Annual bluegrass	FAC
Polygonum aviculare	Common knotweed	FAC
Populus fremontii	Fremont cottonwood	FAC
Proboscidea louisianica subsp. louisianica	Common unicorn plant	FACU
Prunus cerasifera	Cherry plum	UPL
Quercus lobata	Valley oak	FACU
Raphanus sativus	Wild radish	UPL
Rumex crispus	Curly dock	FAC
Sinapis alba	White mustard	FAC
Sonchus oleraceus	Common sow-thistle	UPL
Sorghum halepense	Johnsongrass	FACU
Spergularia rubra	Ruby sand-spurrey	FAC
Stellaria media	Common chickweed	FACU
Trifolium hirtum	Rose clover	UPL
Triteleia hyacinthina	White triteleia	FAC
Vicia sativa	Common vetch	FACU
Vicia villosa	Winter vetch	UPL

Appendix C
USACOE Aquatic Resources Spreadsheet

APPENDIX C

Waters_Name	State	Cowardin_Code	HGM_Code	Meas_Type	Amount	Units	Waters_Type	Latitude	Longitude	Local_Waterway
Seasonal Wetland 1	CALIFORNIA	PEM	DEPRESS	Area	0.006665	ACRE	ISOLATE	38.65387000	-121.45637400	Magpie Creek
Seasonal Wetland 2	CALIFORNIA	PEM	DEPRESS	Area	0.00501	ACRE	ISOLATE	38.65396200	-121.45630300	Magpie Creek
Seasonal Wetland 3	CALIFORNIA	PEM	DEPRESS	Area	0.005667	ACRE	ISOLATE	38.65404200	-121.45621800	Magpie Creek
Seasonal Wetland 4	CALIFORNIA	PEM	DEPRESS	Area	0.008882	ACRE	ISOLATE	38.65432000	-121.45624600	Magpie Creek

APPENDIX D
BIOLOGICAL RESOURCES ASSESSMENT

BIOLOGICAL RESOURCES ASSESSMENT
FOR THE

±3-ACRE NORWOOD AVENUE TOWNHOMES STUDY AREA

SACRAMENTO COUNTY, CALIFORNIA

Prepared for:

Norwood North LLC
7225 26th Street
Rio Linda, CA 95673

Prepared by:

Salix consulting, inc.
11601 Blocker Drive, Ste. 100
Auburn, California 95603
(530) 888-0130

AUGUST 2021

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FIGURES

TABLES

APPENDICES

Biological Resources Assessment for the ±3-Acre Norwood Avenue Townhomes Study Area

INTRODUCTION

Project Location

Salix Consulting, Inc. (Salix) has prepared a Biological Resources Assessment for the ±3-acre Norwood Avenue Townhomes study area located at 4790 Norwood Avenue at the intersection of Norwood Avenue and Main Avenue, in unincorporated Sacramento County, California. The approximate coordinates for the center of the property are 38°39′14.77″ N and 121° 27′23.10″ W. It is situated within the Del Paso Land Grant, Civil Colonies, which was not part of the Township/Range system. It is located in the Rio Linda 7.5-minute USGS topographic quadrangle (Figure 1).

Project Setting

The site is situated in the Sacramento Valley at an elevation of approximately 40 feet. The study area is bounded on the north and west by residential subdivisions, and on the east and south by residential development. The study area is undeveloped and is regularly disked (Figure 2).

Objectives of Biological Resources Assessment

- Identify and describe the biological communities present in the study area;
- Evaluate and identify if any sensitive habitats or special-status plant and animal species exist or could exist on the site;
- Conduct an analysis to determine if aquatic resources are present; and
- Provide conclusions and recommendations.

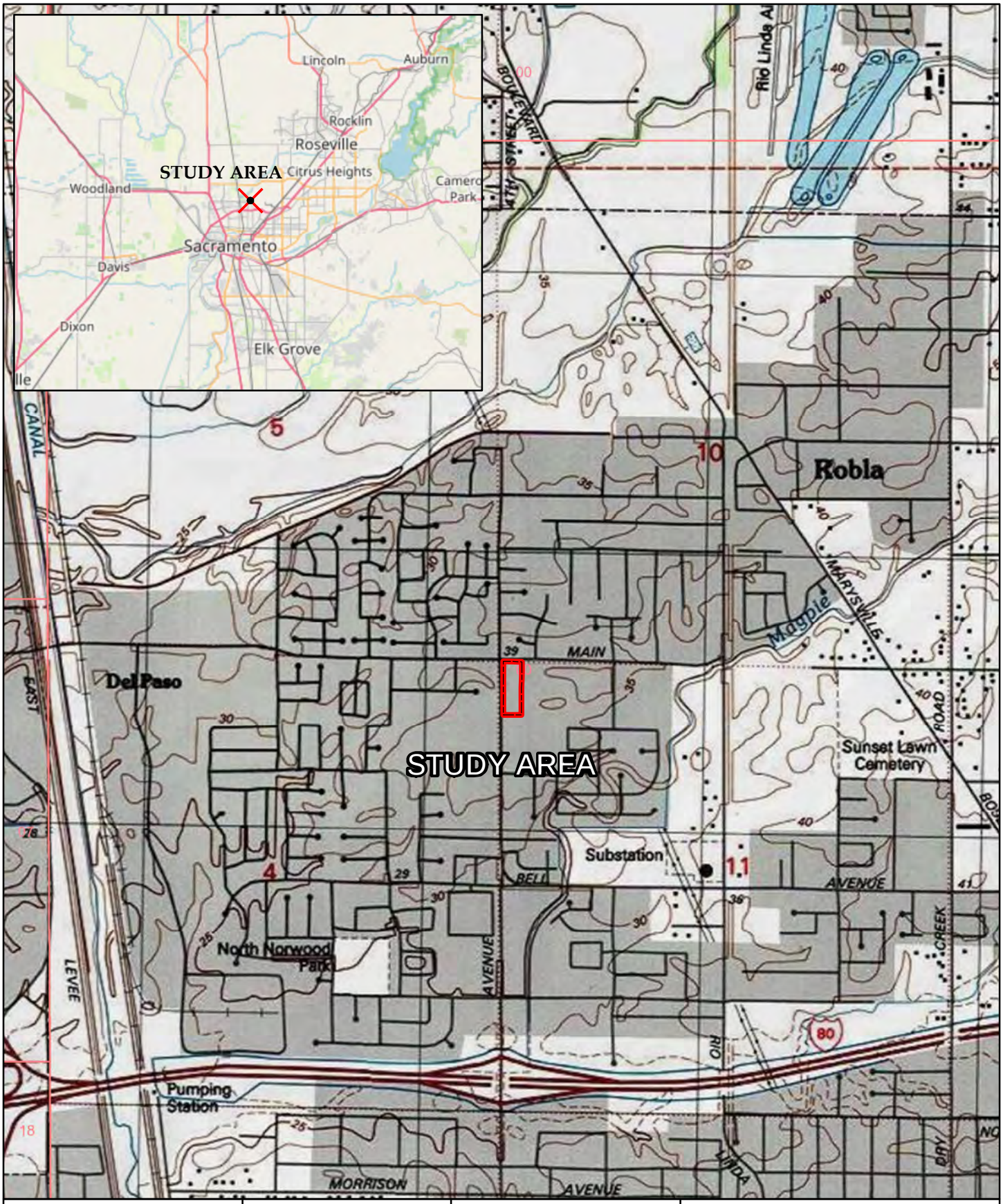
METHODS

Background Review

For this analysis, Salix biologists reviewed aerial photographs, USGS maps, and the proposed tentative parcel map received from the project representatives.

Special-Status Species Reports

To assist with the determination of which special-status species could occur within or near the study area Salix biologists queried the California Natural Diversity Data Base (CDFW 2021), the California Native Plant Society Inventory (CNPS 2021), and the USFWS Information for Planning and Consultation (USFWS IPaC 2021) database for reported occurrences of special-status fish, wildlife, and plant species in the region surrounding the study area. The seven-quadrangle search area included the Rio Linda, Pleasant Grove, Roseville, Taylor Monument, Citrus Heights, Sacramento East, and Sacramento West USGS quadrangles. In addition, Salix biologists reviewed the



N

0 1,000 2,000

Feet

Source Maps: USGS Topographic Map
Rio Lindal Quad 1:24,000
Del Paso Land Grant T9N R5E

Figure 1

SITE AND VICINITY MAP

Norwood Avenue Townhomes

Sacramento County, CA

Salix consulting, inc.

N

0 50 100

Feet

Study Area (±3.13 acres)

Imagery: Baker Williams Engineering

Figure 2

AERIAL MAP

Norwood Avenue Townhomes

Sacramento County, CA

California Department of Fish and Wildlife list of Species of Special Concern for the project vicinity.

For the purposes of this report, special-status species are those that fall into one or more of the following categories:

- Listed as endangered or threatened under the federal Endangered Species Act (or candidate species, or formally proposed for listing);
- Listed as endangered or threatened under the California Endangered Species Act (or proposed for listing);
- Designated as rare, protected, or fully protected pursuant to California Fish and Game Code;
- Designated a Species of Special Concern by the California Department of Fish and Wildlife, or
- Designated as Ranks 1, 2, or 3 on lists maintained by the California Native Plant Society.

Field Assessments

Salix Principal Biologist Jeff Glazner first observed the study area on December 4, 2020 and then conducted a field assessment on April 22, 2021, and on May 1, 2021, to characterize existing conditions, assess the potential for sensitive plant and wildlife resources to occur, and to determine if potential aquatic resources were present onsite, and if so, the likelihood of any feature on the site being under state or federal jurisdiction.

The site was assessed for the potential to support special-status species. Plants and animals observed were documented, and ground photos were taken. The site was also flown with an unmanned aerial vehicle (UAV) on May 1, 2021, to obtain an aerial basemap of the site as well as oblique photos of the property, which are used in this document.

Plants observed are listed in Appendix A. Plant names are according to the *Jepson Flora Project (Jepson eFlora)*. Animals observed are described in the *Wildlife Occurrence and Use* section below. Standard manuals were used as needed to identify wildlife species observed.

Soils

One soil unit has been mapped within the study area– San Joaquin fine sandy loam, 0 to 3 percent slopes (NRCS 2021) (Figure 3):

San Joaquin fine sandy loam, 0 to 3 percent slopes

The **San Joaquin component** makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on valleys, low terraces. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer, duripan, is 35 to 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded or ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 3s. Irrigated land capability classification is 3s. This soil does not meet hydric criteria.

Hydrology

The site occurs in the Lower Steelhead Creek HUC12 watershed (180201110303) part of the greater Lower American HUC8 watershed (18020111). 57 (1/3 mile south of the project site) through a series of roadside culverts and underground drainage systems. Magpie Creek flows south for less than a half-mile before entering a series of ditches along Interstate 80. These ditches flow a mile westerly before entering Steelhead Creek. Steelhead Creek flows 5 miles south until entering the Lower American River near Discovery Park and the Sacramento River.

Salix consulting, inc.

N

0 150 300

Feet

Study Area (±3.13 acres)

Imagery: Baker Williams Engineering

Figure 3

SOIL COMPONENTS

Norwood Avenue Townhomes

Sacramento County, CA

Landcover Types

The study area is a ruderal annual grassland that is regularly disked, as summarized in Table 1 below and illustrated in Figure 4. Aerial and ground photos of the property are presented in Figures 5a through 5c.

Table 1.
Landcover Types Present within the
4790 Norwood Avenue Study Area

Biological Community	Approximate Acreage
Ruderal Annual Grassland	3.1
Total	**3.1**

Ruderal Annual Grassland

The entire study area, except for the area around the woody vegetation in the northern area, is regularly disked and maintained. Species growing on the site are almost entirely weedy and annual. A grove of trees and shrubs occurs in the northern area and includes cottonwood (*Populus fremontii*), valley oak (*Quercus lobata*), northern California black walnut (*Juglans hindsii*), plum (*Prunus cerasifera*), fruitless mulberry (*Morus alba*), fig (*Ficus carica*), and a dense clump of giant reed (*Arundo donax*). The footprint of these species is relatively small, and they are included in the ruderal habitat

The most common species on the site during the site evaluations were wild oat (*Avena fatua*) and ripgut grass (*Bromus diandrus*). Other common species observed were Italian rye grass (*Festuca perennis*), broad leaf filaree (*Erodium botrys*), vetch (*Vicia villosa*), yellow star thistle (*Centaurea solstitialis*), rose clover (*Trifolium hirtum*), soft chess (*Bromus hordeaceus*), foxtail barley (*Hordeum murinum*), Bermuda grass (*Cynodon dactylon*), and ruby sand-spurrey (*Spergularia rubra*).

Aquatic Resources

The study area contains remnant depressions that show evidence of prolonged saturation. Four small basins have been identified that occur on distinctly different soils characterized as "dense clay" from visual observation. It is our presumption that this area of the site contains a clay inclusion that impedes percolation. The shallow basins behave as marginal wetlands as they support facultative grasses (Italian rye grass and Mediterranean barley) as well as an algal mat. A wetland delineation has been prepared under separate cover.

Salix consulting, inc.

N

0 50 100

Feet

Study Area (±3.13 acres)

Imagery: Baker Williams Engineering

Figure 4

HABITAT MAP

Norwood Townhomes

Sacramento County, CA

Looking northwest over study area. *Photo Date 5-1-21.*

Looking northeast across northern half of study and cluster of trees/shrubs.
Norwood and Main intersection shown in upper left. *Photo Date 5-1-21.*

Salix consulting, inc.

Figure 5a

AERIAL SITE PHOTOS

Norwood Avenue Townhomes

Sacramento County, CA

Looking south along eastern fenceline. *Photo Date 4-22-21.*

Looking toward area of trees and shrubs in northern area of site.
Photo Date 4-22-21.

Salix consulting, inc.

Figure 5b

SITE PHOTOS

Norwood Avenue Townhomes

Sacramento County, CA

Looking southwest across study area. *Photo Date 12-4-20.*

Looking southwest across study area. *Photo Date 5-1-21.*

Salix consulting, inc.

Figure 5c

SITE PHOTOS

Norwood Avenue Townhomes

Sacramento County, CA

Wildlife Occurrence and Use

Common urban wildlife species utilize this property. Species observed include killdeer (*Charadrius vociferous*), rock dove (*Columba livia*), mourning dove (*Zenaida macroura*), western scrub-jay (*Aphelocoma californica*), European starling (*Sturnus vulgaris*), house finch (*Carpodacus mexicanus*), ground squirrel (*Otospermophilus beecheyi*), and black-tailed jackrabbit (*Lepus californicus*). Red-tailed hawk (*Buteo jamaicensis*), turkey vulture (*Cathartes aura*), and American crow (*Corvus brachyrhynchos*) were observed over the site. The sparse tree and shrub area provides limited habitat and shelter for wildlife in the urban setting. Large mammals such as coyote may pass through, but there are no denning opportunities. Most of the species that would utilize this area would be small mammals such as field mice and squirrels.

Special-Status Species

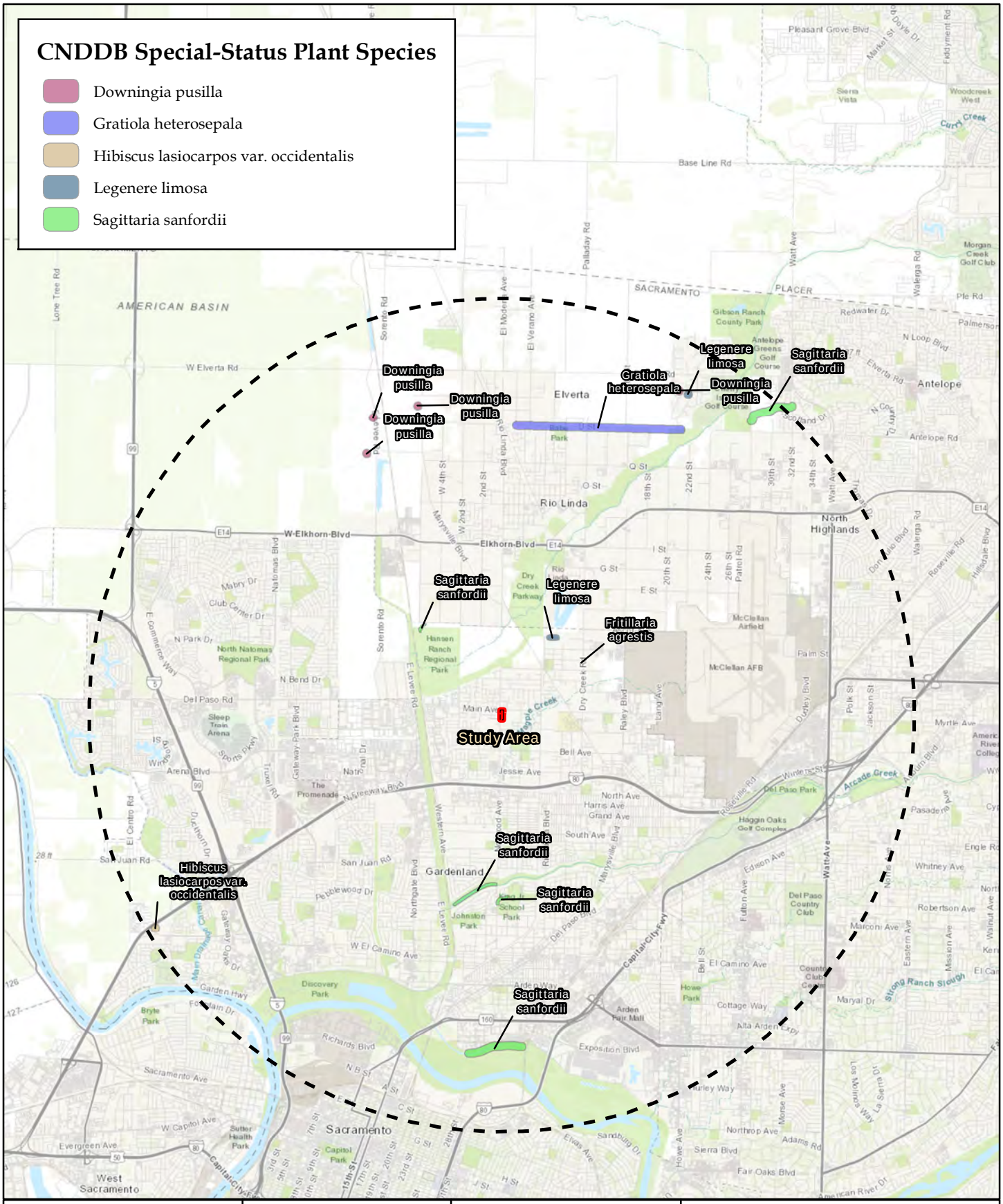
To determine potentially-occurring special-status species, the standard databases from the USFWS, CDFW (the CNDDB), and CNPS were queried and reviewed as described above. These searches provided a list of regionally-occurring special-status species and were used to determine which species have some potential to occur within or near the study area. Appendix B lists potentially-occurring special-status plants, and Appendix C lists potentially-occurring special-status animals compiled from the queries. The field survey and the best professional judgment of Salix biologists were used to further refine the tables in Appendices B and C. Additionally, plant species found on the CNPS List 4 are not considered further in the document. Figure 6a shows the approximate locations of reported occurrences of CNDDB special-status plants within a five-mile radius of the study area, and Figure 6b shows the same information for special-status animals.

Plants

Of the 10 potentially-occurring special-status plant species identified in the CNDDB query (Appendix B), five (5) were identified as occurring within or near a five-mile radius of the study area (Figure 6a), but none of these were determined to have any potential for occurring onsite due to the absence of suitable wet habitats (such a marshes or vernal pools) or suitable substrates (such as alkaline). These species are:

- Sanford's arrowhead (*Sagittaria sanfordii*)
- Legenere (*Legenere limosa*)
- Dwarf downingia (*Downingia pusilla)*
- Bogg's Lake hedge-hyssop (*Gratiola heterosepala)*
- Wooly rose-mallow (*Hibiscus lasiocarpos occidentalis*)

In summary, 10 special-status plants are known from the region surrounding the study area (Appendix B), and five of these plants are known from within a five-mile radius and are shown in Figure 6a. All of the plant species identified in Appendix B require habitats or substrates that do not occur within the study area. Therefore, all 10 were determined to have no potential for occurring onsite and were eliminated from further consideration.



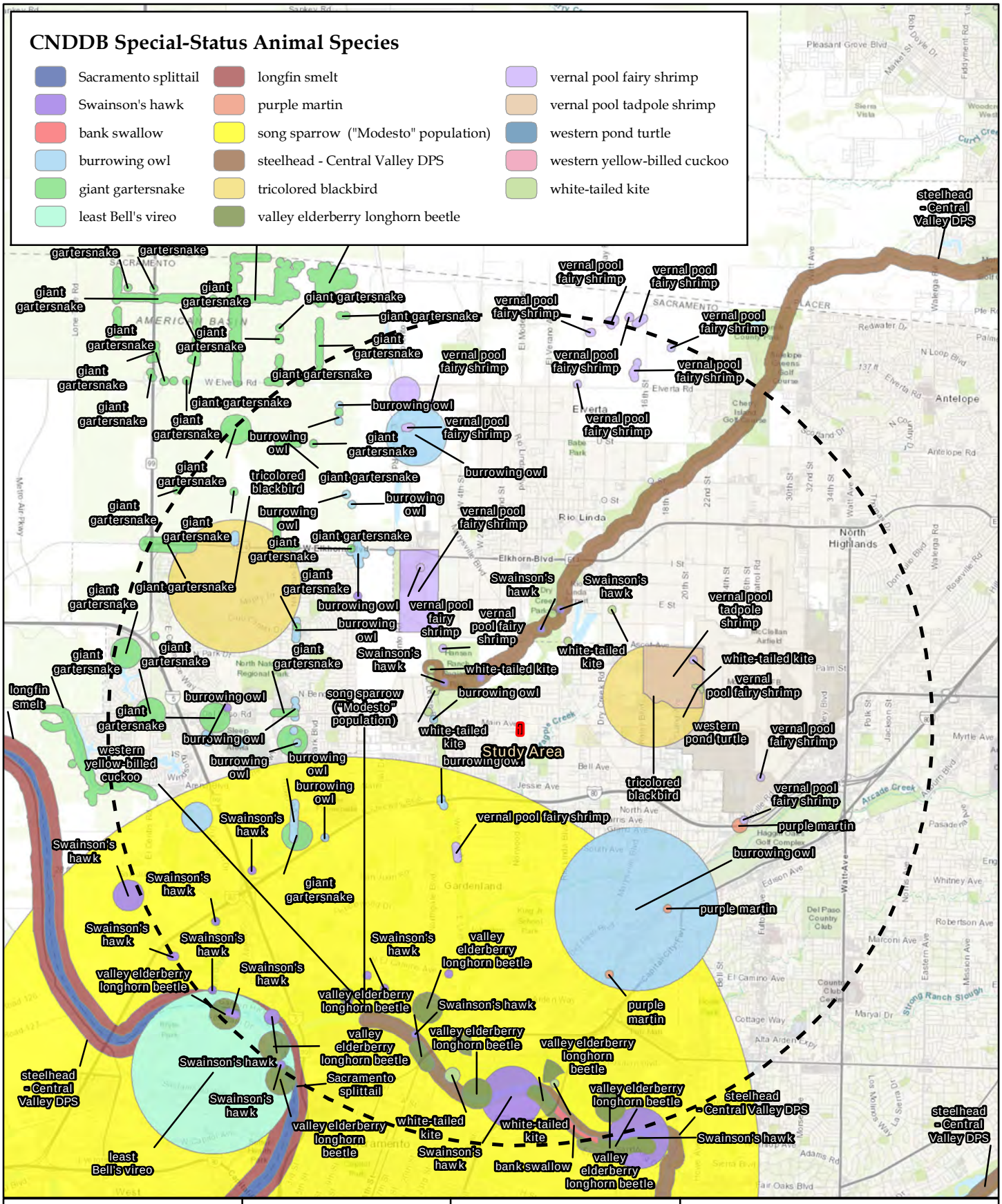
Salix consulting, inc.

Figure 6a

CNDDB OCCURRENCES MAP

Norwood Avenue Townhomes

Sacramento County, CA



Salix consulting, inc.

N

0 5,000 10,000

Feet

Figure 6b

CNDDB OCCURRENCES MAP

Norwood Avenue Townhomes

Sacramento County, CA

Animals

Of the 27 animal species identified from the CNDDB and USFWS queries (Appendix C), 17 were identified as occurring within or near the five-mile radius of the study area (Figure 6b). Of these, 16 species occurring within a 5-mile radius were determined to have no potential for occurring onsite due to the absence of suitable aquatic and/or nesting habitat or host plant. Three species appeared in the IPaC (USFWS) query results, but not in the CNDDB query results and not on Figure 6b, including:

- California tiger salamander,
- California red-legged frog, and
- Delta smelt.

None of these species has any potential to occur within the study area due to the absence of suitable habitat.

The 23 animal species from the CNDDB query with no likelihood to occur include:

- Vernal pool fairy shrimp (*Branchinecta lynchi)*
- Vernal pool tadpole shrimp (*Lepidurus packardi)*
- Valley elderberry longhorn beetle (VELB) (*Desmocerus californicus dimorphus)*
- Steelhead, Central Valley ESU (*Oncorhynchus mykiss irideus)*
- Chinook salmon - Central Valley spring-run ESU (*Oncorhynchus tshawytscha*)
- Chinook salmon - Sacramento winter run ESU (*Oncorhynchus tshawytscha*)
- Longfin smelt *(Spirinichus thaleichthys*)
- Sacramento splittail (*Pogonichthys macrolepidotus)*
- Sacramento perch (*Archoplites interruptus*)
- Western spadefoot (*Spea hammondii)*
- Western pond turtle (*Actinemys marmorata)*
- Giant garter snake (*Thamnophis gigas*)
- White-tailed kite (*Elanus leucurus)*
- Swainson's hawk (*Buteo swainsoni)*
- California black rail (*Laterallus jamaicensis coturniculus*)
- Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*)
- Least Bell's vireo (*Vireo bellii pusillus*)
- Purple martin (*Progne subis)*
- Bank swallow (*Riparia riparia)*
- Grasshopper sparrow (*Ammodramus savannarum)*
- Song sparrow (Modesto population) (*Melospiza melodia*)

- Tricolored blackbird (*Agelaius tricolor)*
- American badger (*Taxidea taxus*)

The study area lacks perennial aquatic habitats such as streams and ponds that would support California red-legged frog, western spadefoot, California tiger salamander, western pond turtle, giant garter snake, steelhead, Chinook salmon, or any other fish species. In addition, the study area is located outside the range of the Delta smelt.

The study area does not contain any areas that would qualify as suitable habitat for vernal pool crustaceans (vernal pools or seasonal wetlands). In addition, no critical habitat for vernal pool crustaceans is mapped within or near the study area.

Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*) is a federal-threatened species that occurs in association with live elderberry shrubs. Valley elderberry longhorn beetle has no potential for occurring within the study area due to the absence of suitable habitat (elderberry shrubs).

As noted in Appendix C, no suitable nesting habitat occurs within the study area to support white-tailed kite, Swainson's hawk, California black rail, western yellow-billed cuckoo, least Bell's vireo, purple martin, bank swallow, grasshopper sparrow, song sparrow (Modesto population), or tricolored blackbird.

Of the 17 animal species identified by CNDDB as occurring within or near a five-mile radius of the study area (Figure 6b), one bird- burrowing owl – was determined to have some potential, although unlikely, for occurring onsite due to the presence of marginal nesting habitats (see Table 2 below). It is discussed further following the table.

No other special-status animal species were determined to have any potential to occur within the study area.

Table 2.
Special-Status Animals Determined to Have ANY POTENTIAL to Occur Within the 4790 Norwood Avenue Study Area

Species	Status* Federal	Status* State	Habitat	Potential for Occurrence Within Study Area**
Birds				
Burrowing owl *Athene cuniculare*		CSC	Found in annual grasslands. Nests in burrows dug by small mammals, primarily ground squirrels.	Unlikely. Study area regularly disked. No burrows observed during field survey.

***Status Codes:**
State
CSC California Species of Concern

**Definitions for the Potential to Occur:
Unlikely: *Some habitat may occur, but disturbance or other activity may restrict or eliminate the possibility of the species occurring. Habitat may be very marginal, or the study area maybe outside the range of the species.*

Burrowing Owl (*Athene cunicularia*) is designated as a state species of concern. The burrowing owl occurs throughout most of western United States and northern Mexico. In California, burrowing owls occur in open habitats throughout most of the state. They are found in open, dry grasslands, agricultural and range lands, and desert habitats. In the Central Valley, they are associated with remaining grassland habitats, pasturelands, and edges of agricultural fields. They also occur in vacant lots within urbanizing areas. Historically nesting in colonies, due to limited nesting habitat availability, many of the more recent occurrences are individual nesting pairs or several loosely associated nesting pairs. The species typically occupies the burrows created by California ground squirrels *(Spermophilus beecheyi)*. They also occupy artificial habitats, such as those created by rock piles and occasionally in open pipes and small culverts. They forage for small rodents and insects in grassland and agricultural habitats with low vegetative cover.

No burrowing owls or active burrows of the species were detected within the Study Area during the field survey. CNDDB (2021) reports the nearest occurrence of burrowing owls as one mile west of the study area, on the west bank of the Natomas East main drainage canal, just north of Del Paso Road, Sacramento on July 25, 2003. The burrow site was located next to a rusty manhole cover, 50-60 feet north of Del Paso Road. Eight individuals (adults and juveniles) were observed.

An evaluation of potential burrowing owl habitat in the study area during the field survey indicated that due to the regular disking that occurs on the site, there is relatively little ground squirrel activity on site. Thus, it is unlikely that burrowing owls would occur.

RECOMMENDATIONS

Potential Aquatic Resources

The study area contains features that may qualify as aquatic resources but would likely not be regulated by the U.S. Army Corps of Engineers (Navigable Waters Protection Rule). However, these features would be under jurisdiction of the state Regional Water Quality Control Board.

An Aquatic Resources Delineation has been prepared under separate cover and should be submitted to the U.S. Army Corps of Engineers with a request for an Approved Jurisdictional Determination. If the Corps determines the resources are jurisdictional and would be impacted by the proposed project, a Section 404 Clean Water Act permit will be required from the Corps of Engineers and a Section 401 Water Quality Certification will be required from the Regional Water Quality Control Board. If the Corps does not take jurisdiction, only a permit from the Regional Board would be required.

Streams, Pond, and Riparian Habitat

No streams, ponds or riparian habitat are present on the site. There are no habitats on the property that would fall under the jurisdiction of the California Department of Fish and Wildlife (CDFW).

Tree Conservation

A Tree Pruning or Tree Removal Permit is required by the County to prune or remove any public tree and certain private trees. Privately owned trees also require a tree permit in accordance with Zoning Code Regulations and the County's Tree Preservation and Protection Ordinance. The applicant should consult with the County to determine what, if any, provisions of the Tree Ordinance are applicable.

Special-Status Plants

The study area contains no suitable habitats for special-status plant species that may occur in the region, and none were detected during the field survey. No further studies are recommended.

Special-Status Wildlife

Burrowing Owl

It is unlikely that burrowing owl would occur on the site due to the regular disking that takes place. However, a pre-construction burrowing-owl survey should be conducted no more than 30 days prior to ground-disturbing activity to definitively determine presence/absence of the species within and directly adjacent to proposed work areas. Pre-construction surveys should be conducted according to the California Burrowing Owl Consortium's 1993 *Burrowing Owl Survey Protocol and Mitigation Guidelines*. If active burrows are found during the pre-construction

surveys, CDFW should be contacted to determine avoidance measures and mitigation responsibilities.

Nesting Raptors and Migratory Birds

The site contains a few small trees that are not likely to support nesting raptors. However, they could support other birds protected by the Migratory Bird Treaty Act. Take of any active raptor nest is prohibited under California Fish and Game Code sections 3503, 3503.5, and 3513. If tree removal or other ground disturbance takes place during the breeding/nesting season (February 1 through August 31), disturbance of nesting activities could occur. To avoid impacts to nesting birds, disturbance should occur outside of the typical nesting season. If disturbance occurs at any time during the nesting season, a pre-construction survey should be conducted by a qualified biologist within two weeks prior to initiation of proposed development activities. If active nests are found during the pre-construction survey, buffer zones will be established around any identified nests, and the nests will be monitored by a qualified biologist until the offspring have fledged. If the nesting bird is a bird of prey, consultation with the County and CDFW may be warranted.

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Appendix A.
Plant Species Observed within the 4790 Norwood Avenue Study Area

Appendix A

Norwood Townhomes Plants Observed - 12/4/20, 4/22 and 5/1/21

Angiosperms - Dicots

Asteraceae (Compositae) - Sunflower Family

Achyrachaena mollis	Blow-wives
**Carduus pycnocephalus*	Italian thistle
**Centaurea solstitialis*	Yellow starthistle
Centromadia fitchii	Fitch's spikeweed
**Cichorium intybus*	Chicory
**Dittrichia graveolens*	Stinkwort
Erigeron canadensis	Canadian horseweed
**Helminthotheca echioides*	Bristly ox-tongue
Holocarpha virgata subsp. virgata	Virgate tarweed
**Hypochaeris glabra*	Smooth cat's-ear
**Lactuca serriola*	Prickly lettuce
**Leontodon saxatilis*	Long-beaked hawkbit
**Matricaria discoidea*	Pineapple-weed
**Sonchus oleraceus*	Common sow-thistle

Boraginaceae - Borage Family

Amsinckia menziesii	Rancher's fireweed

Brassicaceae (Cruciferae) - Mustard Family

**Brassica nigra*	Black mustard
**Hirschfeldia incana*	Short-podded mustard
**Raphanus sativus*	Wild radish
**Sinapis alba*	White mustard

Caryophyllaceae - Pink Family

**Spergularia rubra*	Ruby sand-spurrey
**Stellaria media*	Common chickweed

Chenopodiaceae - Goosefoot Family

**Chenopodium album*	White pigweed

Convolvulaceae - Morning-Glory Family

**Convolvulus arvensis*	Bindweed

Euphorbiaceae - Spurge Family

Croton setiger	Turkey mullein

Fabaceae (Leguminosae) - Legume Family

Acmispon americanus	Spanish lotus
Lupinus bicolor	Miniature lupine
**Medicago polymorpha*	California burclover
**Trifolium hirtum*	Rose clover
**Vicia sativa*	Common vetch
**Vicia villosa*	Winter vetch

Fagaceae - Oak Family

Quercus lobata	Valley oak

* Indicates a non-native species

Geraniaceae - Geranium Family

**Erodium botrys*	Broad-leaf filaree
**Erodium cicutarium*	Red-stem filaree
**Geranium molle*	Dove's-foot geranium

Juglandaceae - Walnut Family

Juglans hindsii	Northern California black walnut

Martyniaceae - Unicorn-Plant Family

**Proboscidea louisianica subsp. louisianica*	Common unicorn plant

Moraceae - Mulberry Family

**Ficus carica*	Common fig
**Morus alba*	White mulberry

Oleaceae - Olive Family

**Olea europaea*	Olive

Onagraceae - Evening Primrose Family

Epilobium brachycarpum	Summer cottonweed

Plantaginaceae - Plantain Family

**Plantago lanceolata*	English plantain

Polygonaceae - Buckwheat Family

**Polygonum aviculare*	Common knotweed
**Rumex crispus*	Curly dock

Rosaceae - Rose Family

**Prunus cerasifera*	Cherry plum

Salicaceae - Willow Family

Populus fremontii	Fremont cottonwood

Angiosperms -Monocots

Poaceae (Gramineae) - Grass Family

**Aira caryophyllea*	Silver European hairgrass
**Arundo donax*	Giant reed
**Avena fatua*	Wild oat
**Bromus diandrus*	Ripgut grass
**Bromus hordeaceus*	Soft chess
**Bromus madritensis*	Foxtail brome
**Cynodon dactylon*	Bermudagrass
**Elymus caput-medusae*	Medusahead
**Festuca myuros*	Rattail sixweeks grass
**Festuca perennis*	Italian ryegrass
**Hordeum marinum subsp. gussoneanum*	Mediterranean barley
**Hordeum murinum*	Wall barley
**Poa annua*	Annual bluegrass
**Sorghum halepense*	Johnsongrass

Themidaceae - Brodiaea Family

Triteleia hyacinthina	White triteleia

* Indicates a non-native species

Appendix B.
Potentially-Occurring Special-Status Plants in the Region of the 4790 Norwood Avenue Study Area

Appendix B

Norwood Avenue - Potentially-occurring Special-status Plants

Family Taxon Common Name	Status*	Flowering Period	Habitat	Probability on Project Site
Alismataceae				
Sagittaria sanfordii Sanford's arrowhead	Fed: - State: - CNPS: Rank 1B.2	May-October	Marshes, shallow freshwater.	None. No suitable wet habitat present.
Asteraceae (Compositae)				
Balsamorhiza macrolepis Big-scale balsam-root	Fed: - State: - CNPS: Rank 1B.2	March-June	Cismontane woodland; valley and foothill grassland; [sometimes serpentinite].	None. No suitable habitat present. Site regularly disked.
Symphyotrichum lentum Suisun Marsh aster	Fed: - State: - CNPS: Rank 1B.2	August-November	Marshes and swamps (brackish and fresh water)	None. No suitable wet habitat present.
Campanulaceae				
Downingia pusilla Dwarf downingia	Fed: - State: - CNPS: Rank 2B.2	March-May	Vernal pools and seasonal wetlands.	None. No suitable habitat present. No vernal pools or seasonal wetlands.
Legenere limosa Legenere	Fed: - State: - CNPS: Rank 1B.1	April-June	Vernal pools and seasonal wetlands.	None. No suitable habitat present. No vernal pools or seasonal wetlands.
Fabaceae (Leguminosae)				
Astragalus tener ferrisiae Ferris' milkvetch	Fed: - State: - CNPS: Rank 1B.1	April-May	Meadows (vernally mesic); valley and foothill grassland (subalkaline flats).	None. No suitable wet habitat present.

Appendix B

Norwood Avenue - Potentially-occurring Special-status Plants

Family Taxon Common Name	Status*	Flowering Period	Habitat	Probability on Project Site
Juncaceae				
Juncus leiospermus leiospermus Red Bluff dwarf rush	Fed: - State: - CNPS: Rank 1B.1	March-May	Vernal pools and wetland swales.	None. No suitable habitat present. No vernal pools or seasonal wetlands.
Malvaceae				
Hibiscus lasiocarpos occidentalis Wooly rose-mallow	Fed: - State: - CNPS: Rank 1B.2	June-September	Marshes and swamps (freshwater).	None. No suitable wet habitat present.
Orobanchaceae				
Chloropyron molle hispidum Hispid salty bird's-beak	Fed: - State: - CNPS: Rank 1B.1	June-September	Meadows; playas; [alkaline]. 1-155m.	None. No suitable wet habitat present. No alkaline soil.
Plantaginaceae				
Gratiola heterosepala Bogg's Lake hedge-hyssop	Fed: - State: CE CNPS: Rank 1B.2	April-August	Vernal pools.	None. No suitable habitat present. No vernal pools or seasonal wetlands.

Appendix B

Norwood Avenue - Potentially-occurring Special-status Plants

Family Taxon Common Name	Status*	Flowering Period	Habitat	Probability on Project Site

***Status**

Federal:
FE - Federal Endangered
FT - Federal Threatened
FPE - Federal Proposed Endangered
FPT - Federal Proposed Threatened
FC - Federal Candidate
FSS - Forest Service Sensitive
FSW - Forest Service Watchlist

State:
CE - California Endangered
CT - California Threatened
CR - California Rare
CSC - California Species of Special Concern

CNPS (California Native Plant Society - List.RED Code):
Rank 1A - Extinct
Rank 1B - Plants rare, threatened, or endangered in California and elsewhere
Rank 2A- Plants extinct in California, but more common elsewhere
Rank 2B - Plants rare, threatened, or endangered in California, more common elsewhere
Rank 3 - Plants about which more information is needed, a review list
Rank 4 - Plants of limited distribution, a watch list
RED Code
1 - Seriously endangered (>80% of occurrences threatened)
2 - Fairly endangered (20 to 80% of occurrences threatened)
3 - Not very endangered (<20% of occurrences threatened)

Appendix C.
Potentially-Occurring Special-Status Animals in the Region of the 4790 Norwood Avenue Study Area

Appendix C

Norwood Avenue - Potentially-occurring Special-status Animals

	Status*	Habitat	Probability on Project Site
Invertebrates			
Vernal pool fairy shrimp *Branchinecta lynchi*	Fed: FT State: - Other: -	Vernal pools and other temporary bodies of water in southern and Central Valley of California. Most common in smaller grass or mud bottomed swales or basalt flow depression pools in unplowed grasslands.	None. No suitable habitat (vernal pools or similar) preent.
Vernal pool tadpole shrimp *Lepidurus packardi*	Fed: FE State: - Other: -	Found in vernal pools in the Central Valley of California and in the San Francisco Bay area. Inhabits vernal pools with clear to highly turbid water.	None. No suitable habitat (vernal pools or similar) preent.
Insects			
Valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	Fed: FT State: - Other: *	Requires host plant, elderberry (Sambucus nigra) for its life cycle. Shrubs must have live stem diameters at ground level of 1.0 inch or greater. Occurs in Great Valley and lower foothills.	None. No suitable habitat (host plant) present within study area.
Fish			
Steelhead, Central Valley ESU *Oncorhynchus mykiss irideus*	Fed: FT State: - Other: -	Occurs below man-made impassable barriers in the Sacramento and San Joaquin rivers and tributaries. Adults migrate from ocean to natal freshwater streams to spawn. Yuba River has essentially the only remaining wild steelhead fishery in Central Valley.	None. No suitable aquatic habitat (streams) present within study area.
Chinook salmon - Central Valley spring-run ES *Oncorhynchus tshawytscha*	Fed: FT State: CT Other: *	Occurs in water bodies with cool, fast-flowing water and gravel suitable for spawning. Found primarily in 4 tributaries of the Sacramento River: Butte Creek, Big Chico Creek, Deer Creek, and Mill Creek.	None. No suitable aquatic habitat (streams) present within study area.
Chinook salmon - Sacramento winter run ESU *Oncorhynchus tshawytscha*	Fed: FE State: CE Other: -	One of 4 runs that spawns in upper Sacramento River and Battle Creek. They return to the upper Sacramento River in the winter but delay spawning until the spring and summer.	None. No suitable aquatic habitat (streams) present within study area.
Delta smelt *Hypomesus transpacificus*	Fed: FT State: CT Other: -	Endemic to the Sacramento-San Joaquin Delta in coastal and brackish waters. Occurs seasonally in Suisun and San Pablo bays. Spawning usually occurs in dead-end sloughs and shallow channels.	None. No suitable aquatic habitat (streams) present within study area. Study area outside range of species.

Appendix C

Norwood Avenue - Potentially-occurring Special-status Animals

	Status*	Habitat	Probability on Project Site
Longfin smelt *Spirinichus thaleichthys*	Fed: FC State: CT Other:	Endemic to the lower reaches of the Sacramento-San Joaquin River system. Inhabits open waters in the Delta and Suisun Bay. After spawning, larvae are carried downstream to brackish nursery areas.	None. No suitable aquatic habitat (streams) present within study area.
Sacramento splittail *Pogonichthys macrolepidotus*	Fed: - State: CSC Other:	Found in: (1) the Delta, (2) Suisun Bay, (3) Suisun Marsh, (4) Napa River, (5) Petaluma River, and (6) other parts of the Sacramento-San Joaquin Estuary. Requires flooded vegetation for spawning and rearing.	None. No suitable aquatic habitat (streams) present within study area.
Sacramento perch *Archoplites interruptus*	Fed: - State: CSC Other:	Historically found in slow-moving rivers, sloughs, and ponds in the Central Valley.	None. No suitable aquatic habitat (streams) present within study area.
Amphibians			
California tiger salamander *Ambystoma californiense*	Fed: FT State: CT Other: -	Occurs in annual grassland habitat (<1500 feet) and occasionally in grassy understory of valley-foothill hardwood habitats where lowland aquatic sites are available for breeding. Breeds primarily in vernal pools.	None. No suitable aquatic habitat present within study area.
Western spadefoot *Spea hammondii*	Fed: - State: CSC Other: -	Found primarily in grassland habitats, but may occur in valley and foothill woodlands. Requires vernal pools, seasonal wetlands, or stock ponds for breeding and egg laying. Prefers more turbid pools for predator avoidance.	None. No suitable aquatic habitat present within study area.
California red-legged frog *Rana draytonii*	Fed: FT State: CSC Other: -	Occurs in lowlands and foothills in deeper pools and slow-moving streams, usually with emergent wetland vegetation. Requires 11-20 weeks of permanent water for larval development.	None. No suitable aquatic habitat present within study area.
Reptiles			
Western pond turtle *Actinemys marmorata*	Fed: - State: CSC Other: -	Inhabits ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Needs suitable basking sites and upland habitat for egg laying.	None. No suitable aquatic habitat present within study area.

Appendix C

Norwood Avenue - Potentially-occurring Special-status Animals

	Status*	Habitat	Probability on Project Site
Giant garter snake *Thamnophis gigas*	Fed: FT State: CT Other: -	Primarily associated with marshes and sloughs, less with slow-moving creeks, and absent from larger rivers. Nocturnal retreats include mammal burrows and crevices. During the day, basks on emergent vegetation such as cattails and tules.	None. No suitable aquatic habitat present within study area.
Birds			
White-tailed kite *Elanus leucurus*	Fed: - State: CFP Other: -	Found in lower foothills and valley margins with scattered oaks and along river bottomlands or marshes adjacent to oak woodlands. Nests in trees with dense tops.	None. No suitable nesting habitat present within study area.
Swainson's hawk *Buteo swainsoni*	Fed: - State: CT Other: *	Breeds in open areas with scattered trees; prefers riparian and sparse oak woodland habitats. Requires nearby grasslands, grain fields, or alfalfa for foraging. Rare breeding species in Central Valley.	None. No suitable nesting habitat present within study area.
California black rail *Laterallus jamaicensis coturniculus*	Fed: - State: CT Other: CFP	Inhabits salt, fresh, and brackish water marshes with little daily and/or annual water fluctuations. In freshwater habitats, preference is for dense bulrush and cattails. Several scattered populations documented from Butte Co. to southern Nevada Co.	None. No suitable nesting habitat present within study area.
Western yellow-billed cuckoo *Coccyzus americanus occidentalis*	Fed: FT State: CE Other: -	Inhabits riparian forests along the broad, lower floodplains of larger rivers. Nests in thickets of willows and cottonwoods with an understory of blackberry, nettle, or wild grape.	None. No suitable nesting habitat present within study area. No riparian habitat present.
Burrowing owl *Athene cunicularia*	Fed: - State: CSC Other: *	Found in annual grasslands. Nests in burrows dug by small mammals, primarily ground squirrels.	Unlikely. Site regularly disked. No burrows observed during field survey.
Least Bell's vireo *Vireo bellii pusillus*	Fed: FE State: CE Other:	Rare, local summer resident below 2000 ft in low, dense foothill riparian habitat. Inhabits low, dense growth along water. Typically associated with willows, cottonwoods, and blackberry thickets.	None. No suitable nesting habitat present within study area. No riparian habitat present.
Purple martin *Progne subis*	Fed: - State: CSC Other: *	Breeds in riparian woodland, oak woodland, open coniferous forests. Secondary cavity nester. Requires nest sites close to open foraging areas of water or land.	None. No suitable nesting habitat present within study area.

Appendix C

Norwood Avenue - Potentially-occurring Special-status Animals

	Status*	Habitat	Probability on Project Site
Bank swallow *Riparia riparia*	Fed: - State: CT Other: *	Colonial nester near riparian and other lowland habitats. Requires vertical banks or cliffs with fine-textured, sandy soils near streams, rivers, and lakes.	None. No suitable nesting habitat present within study area.
Grasshopper sparrow *Ammodramus savannarum*	Fed: - State: CSC Other: -	Breeds in grasslands and savannahs in rolling hills and lower mountain hillsides up to 5000 feet elevation.	None. No suitable nesting habitat present within study area.
Song Sparrow - Modesto population *Melospiza melodia*	Fed: State: CSC Other: -	Occurs in expansive freshwater wetlands and early stage riparian thickets of Sacramento Valley. Prefers emergent freshwater marshes dominated by tules, cattails, and willow thickets.	None. No suitable nesting habitat present within study area. No water or riparian habitat.
Tricolored blackbird *Agelaius tricolor*	Fed: - State: CT Other: CSC	Colonial nester in dense cattails, tules, brambles or other dense vegetation. Requires open water, dense vegetation, and open grassy areas for foraging.	None. No suitable nesting habitat present within study area.

Mammals

American badger *Taxidea taxus*	Fed: - State: CSC Other: -	Occurs in dry, open soils in herbaceous, shrub, and forest habitats. Needs friable, uncultivated soil. Preys on rodents.	None. No suitable habitat present within study area. Site regularly disked.

***Status**

Federal:
FE - Federal Endangered
FT - Federal Threatened
FPE - Federal Proposed Endangered
FPT - Federal Proposed Threatened
FC - Federal Candidate
FPD - Federal Proposed for Delisting

State:
CE - California Endangered
CT - California Threatened
CR - California Rare
CC - California Candidate
CFP - California Fully Protected
CSC - California Species of Special Concern

Other:
Some species have protection under the other designations, such as the California Department of Forestry Sensitive Species, Bureau of Land Management Sensitive Species, U.S.D.A. Forest Service Sensitive Species, and the Migratory Bird Treaty Act. Raptors and their nests are protected by provisions of the California Fish and Game Code. Certain areas, such as wintering areas of the monarch butterfly, may be protected by policies of the California Department of Fish and Game.
WL - CDFG Watch List

APPENDIX E
PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

PREPARED FOR:

RANEY PLANNING & MANAGEMENT, INC.
1501 SPORTS DRIVE, SUITE A
SACRAMENTO, CALIFORNIA 95834

PREPARED BY:

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742

GEOCON PROJECT NO. S2317-07-01

MARCH 2022

Project No. S2317-07-01
March 9, 2022

Eliza Shevchuk
Marketing Assistant
Raney Planning and Management, Inc.
151 Sports Drive, Suite A
Sacramento, California 95834

Subject: PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
4790 NORWOOD AVENUE
SACRAMENTO, CALIFORNIA

Ms. Shevchuk:

In accordance with the *Sub-Consultant Agreement* between Raney Planning and Management, Inc, (Raney, the Client) and Geocon Consultants, Inc. (Geocon) executed January 25, 2022, Geocon has performed a Phase I Environmental Site Assessment (ESA) of the property at 4790 Norwood Avenue (the Site) in Sacramento, California. We understand that Raney is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) report for the Site. We performed the Phase I ESA for Raney to be able to summarize the findings in the IS/MND.

The enclosed report describes the methodology and presents the findings of the Phase I ESA including the potential presence of recognized environmental conditions as defined by the American Society for Testing and Materials (ASTM) *Designation E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

We appreciate the opportunity to have assisted Raney with this project. Please contact us if you have any questions concerning this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Cristian Virrueta
Senior Staff Geologist

Jim Brake, PG
Senior Geologist

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PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

1.0 INTRODUCTION

Geocon Consultants, Inc. (Geocon) performed a Phase I Environmental Site Assessment (ESA) of the property at 4790 Norwood Avenue (the Site) in Sacramento, California. We performed the Phase I ESA for Raney Planning and Management, Inc. (Raney, the Client) to assess the potential presence of hazardous substance and/or petroleum product impacts at the Site and for Raney to provide the findings of the Phase I ESA in an Initial Study/Mitigated Negative Declaration (IS/MND)for the Site. This report describes the methodology and presents the findings of the Phase I ESA.

1.1 Purpose and Objectives

The purpose of the Phase I ESA was to identify evidence or indications of 'recognized environmental conditions' (REC) as defined by the American Society for Testing and Materials (ASTM) *Designation E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* Section 1.1.1 of ASTM *Designation E 1527-13* defines an REC as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions." De minimis conditions are those that generally do not present a threat to human health or the environment and that generally would not be the subject of the enforcement action if brought to the attention of appropriate governmental agencies.

ASTM *Designation E1527-13* also defines 'Historical' and 'Controlled' RECs (HREC and CREC, respectively). An 'Historical REC' is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." A 'Controlled REC' is defined as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by the regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." An HREC is not an REC if a property meets current standards for unrestricted residential use. A CREC remains an REC by definition when a property does not meet the unrestricted residential use requirement unconditionally.

We also conducted the Phase I ESA in general accordance with the requirements of 40 Code of Federal Regulations (CFR) Part 312 titled *Standards and Practices for All Appropriate Inquiries,* as required under Sections 101(35) (B)(ii) and (iii) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The purpose of conducting an all appropriate inquiries investigation into the previous ownership and uses of a property is to meet the provisions necessary for the landowner, contiguous property owner, and/or bona fide prospective purchaser to qualify for certain landowner liability protections under CERCLA.

The following principles are an integral part of ASTM *Designation E1527-13*:

- "**Uncertainty Not Eliminated** - No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost."
- "**Not Exhaustive** - All Appropriate Inquiries does not mean an exhaustive assessment of a property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment and the reduction of uncertainty about unknown conditions resulting from additional information."
- "**Level of Inquiry is Variable** - Not every property will warrant the same level of assessment. Consistent with good commercial and customary practice, the appropriate level of environmental site assessment will be guided by the type of property subject to assessment, the expertise and risk tolerance of the user, and the information developed in the course of the inquiry."

1.2 Scope of Services

Our Proposal No. LS-21-440, dated December 21, 2021, describes our services for the Phase I ESA. We performed the services outlined in the proposal with the exception that we did not review Sanborn Fire Insurance Maps (Sanborn maps) as Environmental Data Resources, Inc. (EDR) indicated that Sanborn map coverage does not exist for the Site and vicinity.

The main components of the Phase I ESA and their objectives, as specified by the referenced standards, include the following:

- **Physical Setting:** We reviewed physical setting references to obtain information concerning the topographic, geologic, and hydrogeologic characteristics of the Site and vicinity. Such information may be indicative of the direction and/or extent that a contaminant could migrate in the event of a spill or release.
- **Records Review:** We reviewed publicly available Federal, State, and local regulatory agency records to obtain information that could potentially help identify RECs at or potentially affecting the Site.

- **Site History:** We reviewed historical references to assess the history of previous uses of the Site and surrounding area to identify those that could have led to RECs on or near the Site. Historical sources reviewed included aerial photographs, topographic maps, and city directories. In addition, we conducted interviews with persons who were expected to be reasonably knowledgeable about historical and/or current conditions at and uses of the Site.
- **Site Reconnaissance:** We performed a site reconnaissance to observe site conditions and activities for indications of evidence of RECs. The site reconnaissance was for the Site only. Offsite properties and features were viewed solely from the vantage of the Site and public thoroughfares.

1.3 Report Limitations

We prepared this Phase I ESA report exclusively for Raney. The information obtained is only relevant for the dates of the records reviewed and the latest site visit. Therefore, the information contained herein for the Phase I ESA is only valid as of the date of the report and will require an update after 180 days to reflect updated records and another site reconnaissance to assess current site conditions.

Raney should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions presented in this report are predicated on the site reconnaissance, information in the specified regulatory records, and information regarding the historical usage of the Site, as presented in this report. Raney should also understand that wetlands, asbestos-containing building materials, lead-containing paint, lead in drinking water, radon, mercury related to mining activities, methane, mold or potential naturally occurring hazards such as asbestos and arsenic as part of this Phase I ESA.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence or consultation, either express or implied. We strove to conduct the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

1.4 Data Gaps

A data gap is defined by ASTM *Designation E 1527-13* as "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." Data gaps could include such things as insufficient historical information, the inability to interview persons with direct site knowledge (e.g., the owner(s), past owner(s), tenants, workers, etc.) or the lack of access to all parts of a site during the site reconnaissance.

As described in Section 1.2, we did not review Sanborn maps for the Site, as EDR indicated that Sanborn map coverage does not exist for the Site and vicinity. We also did not receive a completed user questionnaire from Raney summarizing their knowledge of the Site. However, we were able to review other sufficient historical information and therefore do not consider the lack of Sanborn map coverage or a user questionnaire as data gaps.

2.0 SITE DESCRIPTION

This section provides information regarding the location and physical characteristics of the Site including its size, topography, geologic, soil, and hydrogeologic conditions.

2.1 Location and Legal Description

The Site is located at 4790 Norwood Avenue in Sacramento, California (Figure 1). The Site is situated in the Robla Neighborhood of Sacramento approximately one mile north of Interstate 80.

Within the Public Land Survey System of California the Site is in the northeastern quarter of Section 8, Township 9 North, Range 5 East, Mount Diablo Base and Meridian.

The Site is identified by Sacramento County assessor's parcel number 237-0040-001-0000. A parcel map depicting the Site is in Appendix A.

2.2 Site and Vicinity General Characteristics

The 3.15-acre Site is a vacant, undeveloped property with seasonal grasses and a few trees in its northern portion. The Site is situated in an area of predominantly single-family residential land use with Norwood Junior High located across Norwood Avenue to the southwest of the Site (Figure 2).

2.2.1 Topography

The United States Geological Survey (USGS) *Rio Linda, California* topographic maps shows the topography of the Site as relatively flat-lying at an approximate elevation of 39 feet above mean sea level (USGS, 2018).

2.2.2 Geologic Conditions

We obtained geologic information regarding the Sites from a variety of sources including:

- *California Geology* (Harden, 2003),
- *Note 36, California Geomorphic Provinces* (California Geological Survey [CGS], 2002), and
- *Preliminary Geologic Map of the Sacramento 30'x60' Quadrangle* (CGS, 2011).

Following are summaries of pertinent information obtained.

2.2.2.1 Geomorphic Region

The Site is situated in the southern Sacramento Valley, which is the northern portion of the Great Valley geomorphic province of California. The Sacramento Valley is bounded by the northern Sierra Nevada and southern Cascade Range to the east, the northern Coast Ranges to the west, and drains via the Sacramento River and its tributaries south to the Sacramento-San Joaquin river delta. The Sacramento Valley is filled with a thick sequence of Jurassic to Recent-age sedimentary deposits both continental and marine in origin (CGS, 2002; Harden, 2003).

2.2.2.2 Geologic Formations/Stratigraphy

Surficial geology at the Site is mapped as Pleistocene Riverbank Formation (middle unit), which generally consists of interbedded silt, sand, and clay deposits (CGS, 2011).

2.2.3 Soil Conditions

The United States Department of Agriculture – Natural Resources Conservation Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx) indicates that surficial soil on the Site is classified as San Joaquin fine sandy loam. San Joaquin fine sandy loam is described as a moderately well-drained soil that is moderately deep and derived from material weathered from granitic rock sources.

2.2.4 Hydrologic and Hydrogeologic Conditions

There are no surface water bodies on the Site or nearby properties. The nearest natural surface water body is Magpie Creek approximately 1,850 feet east of the Site. The Dry Creek flood channel is approximately ½ mile northwest of the Site

There is no site-specific groundwater information for the Site. Conestoga-Rovers and Associates' (CRA) *First 2013 Semi-Annual Groundwater Monitoring and Sampling Report* dated April 26, 2013, for the former Nolan's Self-Serve fuel station (approximately 2,300 feet east-northeast of the Site), which is available on the California State Water Resources Control Board's (SWRCB) GeoTracker online data management system (http://geotracker.waterboards.ca.gov), indicates that depth to groundwater in seven groundwater monitoring wells there ranged from 54.65 to 59.90 feet in March 2013 and that groundwater flow was to the southeast. Groundwater conditions beneath the Site may be somewhat similar to those beneath and around the former Nolan's Self-Serve fuel station.

The California Department of Water Resources Sustainable Groundwater Management Act (SGMA) Data Viewer (https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels) also depicts groundwater flow in the site region during spring 2021 to the southeast toward a groundwater depression at the southern end of McClellan Park.

2.3 Current and Planned Uses of the Site

The Site is vacant and not used for any purpose. Norwood North, LLC (site owner) plans to develop the Site with townhomes for multi-family use.

2.4 Descriptions of Structures, Roads, Other Improvements on the Site

No structures, roads, or other improvements are present at the Site. Further descriptions of site conditions are in Section 6.0.

2.5 Current Uses of Adjoining Properties

Beyond Main Avenue to the north and Norwood Avenue to the west are single-family residences. Large acreage single-family residential properties adjoin the Site to the east and south.

3.0 USER–PROVIDED INFORMATION

Raney did not provide a completed user questionnaire pertaining to their knowledge of the Site. Raney did provide an IS/MND for the Site that the City of Sacramento Development Services Department prepared in 2005. That IS/MND does not identify the use, storage or disposal of hazardous substances and/or petroleum products on the Site or adjoining or nearby properties.

4.0 RECORDS REVIEW

This section summarizes information we obtained from readily available agency records pertaining to the Site and properties and facilities in the vicinity of the Site.

4.1 Standard Environmental Record Sources

EDR searched federal, state, and local environmental databases for the Site and properties/facilities within one mile of the Site. The following table lists the databases that were searched which have listings and the number of properties/facilities listed. Other databases searched that do not list any properties/facilities are not included in the table. A copy of the report: *The EDR Radius Map Report with GeoCheck*, dated January 28, 2022, is in Appendix B.

Database Name	Search Radius (Miles)	Number of Listings
STATE, LOCAL, AND TRIBAL DATABASES		
Department of Toxic Substances Control [DTSC] Site Mitigation and Brownfields Reuse Program (EnviroStor)	1.0	8
Leaking Underground Storage Tanks (LUST)	0.5	1
Sacramento County Contaminated Sites (Sacramento Co. CS)	0.5	1
ADDITIONAL ENVIRONMENTAL RECORDS		
School Property Evaluation Program (SCH)	0.25	1
Hazardous Waste & Substance Site List (CORTESE)	0.5	1
Historical Hazardous Waste & Substance Site List (HIST CORTESE)	0.5	1
Sacramento County Master List (Sacramento Co. ML)	0.25	3
California Environmental Reporting System (CERS)	0.001	1

4.1.1 Site

The Site is not listed on any of the databases searched by EDR.

4.1.2 Offsite Properties

Three properties within 1⁄8 mile of the Site are listed on various non-release-related[1] databases and therefore are unlikely to have caused an REC at the Site. One property within ¼ mile of the Site is listed on a release-related database[1]. Norwood Junior High School at 4601 Norwood Avenue, approximately 60 feet west of the southern end of the Site (with school buildings approximately 270 feet west at their nearest) is listed on the ENVIROSTOR, SCH, and CERS databases. The ENVIROSTOR and SCH databases list a targeted site investigation for the school site. ENSR Corporation performed a Phase I ESA in September 2000 and did not identify any RECs associated with this property. The CERS database provides no pertinent information. The findings of the Phase I ESA suggest that the school property would not have caused an REC at the Site.

4.2 Orphan Summary

EDR's Orphan Summary identifies properties and facilities that have incomplete address information and therefore could not be accurately plotted. The Orphan Summary lists two facilities that are both greater than one mile from the Site. The distances of these facilities from the Site are too far for conditions involving the use, storage, or release of hazardous substances or petroleum products (if any) there to have caused an REC at the Site.

4.2.1 GeoTracker and EnviroStor

No information regarding documented environmental assessment and cleanup at the Site and/or properties/facilities within ¼ mile of the Site is available on GeoTracker. Information available on the California Department of Toxic Substances Control (DTSC) EnviroStor (http://www.envirostor.dtsc.ca.gov/public/) online data management system for the Norwood Junior High School property indicates the same info as described for the ENVIROSTOR database in Section 4.1.2 - ENSR performed a Phase I ESA for the school property in September 2000 and did not identify any RECs associated with this property. The findings of the Phase I ESA suggest that the school property would not have caused an REC at the Site.

[1] "Release" refers to an unauthorized release of a petroleum product or hazardous substance to the environment - i.e. the ground surface, soil, soil vapor, groundwater, or surface water on a property. "Release-related database" refers to those which provide information regarding an unauthorized release. "Non-release-related database" refers to those that may report use, storage, or disposal of hazardous substances and/or petroleum products or other environmental conditions, but do not report releases of such.

4.2.2 Sacramento County Environmental Management Department

We contacted the SCEMD for records pertaining to the use, storage, disposal, or any releases of or violations related to hazardous substances and/or petroleum at the Site. The SCEMD indicated that they have no records pertaining to the Site.

4.2.3 California Geologic Energy Management Division

The California Geologic Energy Management Division's (CalGEM) online mapping system (Well Finder) does not show any oil or gas wells within ½ mile of the Site.

4.2.4 National Pipeline Mapping System

The National Pipeline Mapping System (NPMS) online mapping system does not show any natural gas or liquid petroleum pipelines on or in the vicinity of the Site.

5.0 HISTORICAL USE

We evaluated the historical use of the Site and adjoining and adjacent properties through review of historical aerial photographs, topographic maps, and city directories provided by EDR. This section summarizes information obtained from these sources.

5.1 Aerial Photographs

We reviewed historical aerial photographs for the years 1937, 1947, 1957, 1964, 1966, 1972, 1984, 1993, 1998, 2006, 2009, 2012, 2016 (Appendix C) for indications of past land uses that had the potential to have impacted the Site through the use, storage, or disposal/release of hazardous substances and/or petroleum. The following table summarizes our observations/interpretations of the Site and adjoining and adjacent property uses as shown by the historical aerial photographs.

Year	Observations	
	Site	Adjoining and Adjacent Properties
1937 (1" = 500')	Structures (likely a single-family residence and farm structures) were present in the northwestern portion of the Site. The rest of the Site appears to have been pasture or dryfarmed.	Surrounding properties were similar grazing land, farmland, and associated rural (larger-acreage) residential. Two roads (the current Main Avenue and Norwood Avenue) were adjacent to the north and west of the Site, respectively.
1947 (1" = 500')	Conditions appear to have been similar to those observed in the 1937 photograph.	Structures were present on the adjoining property east of the Site and properties beyond that to the east had also been similarly developed.
1957 (1" = 500')	Conditions appear to have been similar to those observed in the 1947 photograph.	Conditions appear to have been similar to those observed in the 1947 photograph.
1964 (1" = 500')	Conditions appear to have been similar to those observed in the 1957 photograph.	Conditions appear to have been similar to those observed in the 1957 photograph.

Year	Observations	
	Site	**Adjoining and Adjacent Properties**
1966 (1" = 500')	Conditions appear to have been similar to those observed in the 1964 photograph.	Conditions appear to have been similar to those observed in the 1964 photograph. Norwood Avenue and Main Avenue appear to have been improved.
1972 (1" = 500')	Conditions appear to have been similar to those observed in the 1966 photograph.	Conditions appear to have been similar to those observed in the 1966 photograph.
1984 (1" = 500')	The structures were not present in the northwestern portion of the Site. The Site appears to have been vacant.	Conditions appear to have been similar to those observed in the 1972 photograph.
1993 (1" = 500')	Conditions appear to have been similar to those observed in the 1984 photograph.	Residential subdivisions were present west and northwest of the Site, beyond Norwood Avenue. Other residential subdivisions were under construction north and southeast of the Site.
1998 (1" = 500')	Conditions appear to have been similar to those observed in the 1993 photograph.	Conditions appear to have been similar to those observed in the 1993 photograph.
2006 (1" = 500')	Conditions appear to have been similar to those observed in the 1998 photograph.	A school and associated parking lot were present beyond Norwood Avenue southwest of the Site.
2009 (1" = 500')	Conditions appear to have been similar to those observed in the 2006 photograph.	Conditions appear to have been similar to those observed in the 2006 photograph.
2012 (1" = 500')	Conditions appear to have been similar to those observed in the 2009 photograph.	Conditions appear to have been similar to those observed in the 2009 photograph.
2016 (1" = 500')	Conditions appear to have been similar to those observed in the 2012 photograph.	Conditions appear to have been similar to those observed in the 2012 photograph.
2018-2020 (Google Earth)	Conditions appear to have been similar to those observed in the 2016 photograph.	Conditions appear to have been similar to those observed in the 2016 photograph.

The historical aerial photographs do not show land uses or development that would suggest the use, storage or disposal/release of hazardous substances and/or petroleum products on the Site or adjoining or nearby properties with the possible exception of a heating oil underground storage tank (UST) at the former residence on the northern portion of the Site.

5.2 Topographic Maps

We reviewed historical topographic maps for the years 1891, 1892, 1893, 1902, 1911, 1950, 1951, 1954, 1967, 1975, 1980, 1992, 2012, 2015, and 2018 (Appendix D). The following table summarizes our observations of the Site and adjacent and vicinity properties as depicted on the historical topographic maps.

Year	Observations	
	Site	Adjacent and Vicinity Properties
1891, 1892, and 1893 (1:125,000)	No structures or land uses are depicted on the Site.	A road is depicted east of the Site. Creeks are depicted north and south of the Site. No other land use is depicted in the site vicinity.
1902 (1:62,500)	Conditions depicted are similar to those on the 1891, 1892, and 1893 maps.	An improved road is depicted north of the Site.
1911 (1:31,680)	Conditions depicted are similar to those on the 1902 map.	Conditions depicted are similar to those on the 1902 map.
1950 (1:24,000)	A structure is depicted on the northwestern portion of the Site.	Main Avenue and Norwood Avenue are depicted on adjoining properties north and west of the Site, respectively. Structures are depicted east and south of the Site
1951 (1:24,000)	Conditions depicted are similar to those on the 1950 map.	Conditions depicted are similar to those on the 1951 map.
1954 (1:24,000)	Conditions depicted are similar to those on the 1951 map.	Conditions depicted are similar to those on the 1951 map.
1967 (1:24,000)	Conditions depicted are similar to those on the 1954 map.	Conditions depicted are similar to those on the 1954 map.
1975 (1:24,000)	Conditions depicted are similar to those on the 1967 map.	Conditions depicted are similar to those on the 1967 map.
1980 (1:24,000)	Conditions depicted are similar to those on the 1975 map.	Conditions depicted are similar to those on the 1975 map.
1992 (1:24,000)	No structure is depicted on the northwestern portion of the Site.	Conditions depicted are similar to those on the 1980 map except residential subdivisions are depicted north, northwest and southeast of the Site.
2012 (1:24,000)	Conditions depicted are similar to those on the 1992 map.	Conditions depicted are similar to those on the 1992 map.
2015 (1:24,000)	Conditions depicted are similar to those on the 2012 map.	Conditions depicted are similar to those on the 2012 map except a school is depicted southwest of the Site.
2018 (1:24,000)	Conditions depicted are similar to those on the 2015 map.	Conditions depicted are similar to those on the 2015 map.

The topographic maps do not depict land uses or development that would suggest the use, storage or disposal/release of hazardous substances and/or petroleum products on the Site or adjoining or nearby properties.

5.3 City Directories

EDR prepared an abstract of city directories including city, cross reference and telephone directory listings (Appendix E) with information provided for approximate 5-year intervals, if available, from 1965 to 2017. Individual homeowners are listed for the Site and adjoining and adjacent properties none of which suggest the potential for use, storage, or disposal/release of large quantities of hazardous substances or petroleum products sufficient to have caused an REC at the Site.

6.0 SITE RECONNAISSANCE

This section summarizes our observations of the Site and surrounding properties made during the site reconnaissance.

6.1 Methodology and Limiting Conditions

Cristian Virrueta, Senior Staff Geologist with Geocon, performed the site reconnaissance on February 11, 2022, by walking unaccompanied throughout the Site and along the site perimeter to observe site features and conditions. He observed adjoining and adjacent properties from the Site and public roads. Weather on the day of the site reconnaissance was clear with temperatures in the low 70s°F. Photographs of various site features and offsite properties are appended.

6.2 Site Setting

The Site is situated in an area of single-family residential and institutional (school) uses.

6.3 Onsite Survey

The Site is vacant, unimproved property vegetated with seasonal grasses and a few, scattered trees (Photo 1). We observed domestic trash (i.e., plastic bottles, food containers, plastic bags) throughout the Site.

We observed no evidence of RECs on the Site.

6.4 Offsite Survey

Adjoining and nearby properties consist of the following:

- North – Main Avenue, beyond which are single-family residences (Photo 2).
- West – Norwood Avenue, beyond which are single-family residences (Photo 3) and Norwood Junior High.
- South – Larger-acreage single-family residential property with multiple vehicles (Photos 4).
- East – Larger-acreage single-family residential property (Photo 5).

We observed no evidence of RECs on adjoining or adjacent properties.

7.0 INTERVIEW

We provided David Cobbs, a representative of Norwood North, LLC, with an owner/occupant questionnaire regarding past and present use of the Site and the potential for impacts related to the use, storage, or disposal/release of hazardous substances and/or petroleum products on the Site. A copy of the site owner/occupant questionnaire is in Appendix F.

Mr. Cobbs indicated that Norwood North, LLC acquired the Site in 2013 and that the Site has been vacant for over 20 years. Mr. Cobbs is not aware of any previous uses and/or environmental issues related to the Site or the adjoining or adjacent properties.

8.0 CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I ESA in general conformance with the scope and limitations of ASTM *Designation E 1527-13* of the property at 4790 Norwood Avenue (the Site) in Sacramento, California. Exceptions to, or deletions from, this practice are described in Section 1.4 of this report.

The Phase I ESA has revealed no evidence of RECs in connection with the Site or adjoining or adjacent properties. However, the potential exists for the former residence in the northern portion of the Site to have had a heating oil UST. The formerly developed portion of the Site could be further assessed for the potential presence of a heating oil UST by performing a geophysical survey. Alternatively, a UST, if present, would likely be encountered during future site grading for development and could be removed at that time under permit from the SCEMD. No other environmental assessment of the Site appears to be warranted at this time.

9.0 REFERENCES

American Society for Testing and Materials, *Designation E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, 2013.

California Department of Water Resources, Sustainable Groundwater Management ACT (SGMA) Data Viewer, https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#gwlevels, accessed February 2021.

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CGS, *Preliminary Geologic Map of the Sacramento 30' x 60' Quadrangle, California*, 2011.

California State Water Resources Board, GeoTracker, https://geotracker.swrcb.ca.gov/, accessed February 2021.

Harden, D.R, California Geology: 2nd edition, 2003.

State of California, Department of Toxic Substances Control (DTSC), EnviroStor website http://www.envirostor.dtsc.ca.gov/public/, accessed in February 2021.

United States Department of Agriculture, Natural Resources Conservation Service, http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx, accessed February 2021.

United States Department of Transportation (USDOT). National Pipeline Mapping System, https://www.npms.phmsa.dot.gov/default.aspx, accessed in February 2021.

United States Geological Survey (USGS), *Rio Linda, California, 7.5-minute Topographic Quadrangle Map*, Scale 1:24,000; 2018.

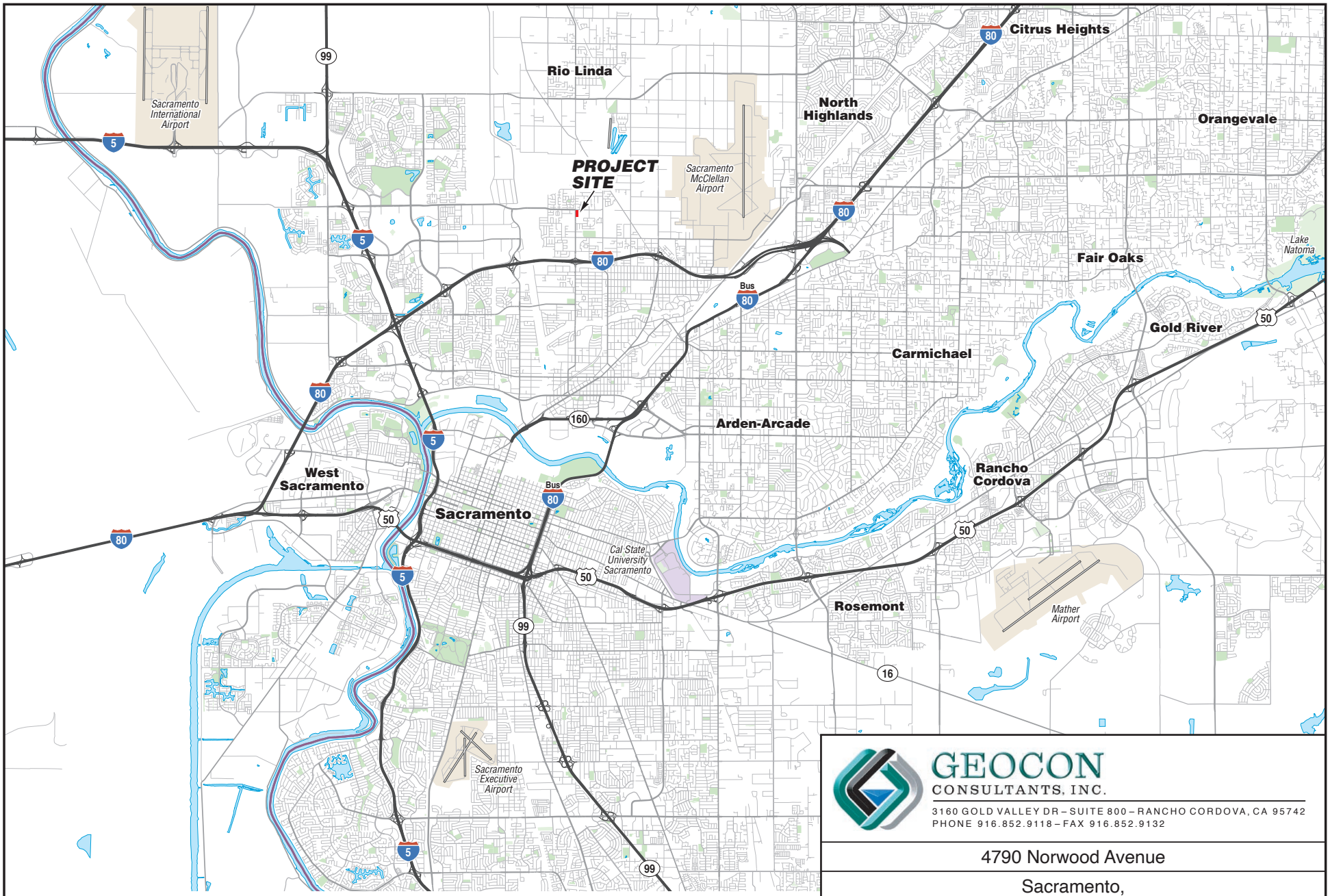
10.0 QUALIFICATIONS

This Phase I ESA report was prepared by Cristian Virrueta and Jim Brake, PG. Mr. Virrueta has experience performing Phase I and Phase II ESAs, subsurface drilling methods, soil and groundwater sampling, groundwater monitoring well installations, and sampling. He is also responsible for preparation of reports, work plans, health and safety plans, and quarterly groundwater monitoring reports. Mr. Virrueta has performed Phase I and II ESAs on properties throughout California.

Mr. Brake has an MS degree in Geological Science and 34 years of experience in environmental investigation and remediation, including implementation of Remedial Investigation/Feasibility Study programs and soil and groundwater remedial actions for private industrial and government clients. He has managed a wide variety of projects for clients in the manufacturing, transportation, mining, automobile and real estate industries including Environmental Protection Agency and DTSC Superfund sites. Mr. Brake has extensive experience performing Phase I and II ESAs of commercial, industrial, and agricultural properties throughout California.

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries investigation in conformance with the standards and practices set forth in 40 CFR Part 312.

Jim Brake, PG
Senior Geologist



GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR – SUITE 800 – RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 – FAX 916.852.9132

4790 Norwood Avenue

Sacramento, California

SITE LOCATION MAP

S2317-07-01	March 2022	Figure 1

LEGEND:

Approximate Site Boundary

1 Site Photograph Location & Orientation

0 50
Scale in Feet

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4790 Norwood Avenue

Sacramento,
California

SITE PLAN

S2317-07-01	March 2022	Figure 2

Photo No. 1 View to the northeast across the Site from the western boundary of the Site

Photo No. 2 View to the north of Main Avenue, beyond which are single-family residences

PHOTOS NO. 1 & 2

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4790 Norwood Avenue

Sacramento,
California

GEOCON Project No. S2317-07-01 | March 2022

Photo No. 3 View to the west of Norwood Avenue, beyond which are single-family residences

Photo No. 4 View to the south of single-family residence and vehicles on adjoining property south of the Site

PHOTOS NO. 3 & 4

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4790 Norwood Avenue

Sacramento, California

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Photo No. 5 View to the east of adjoining larger-acreage residential property east of the Site

PHOTO NO. 5

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4790 Norwood Avenue

Sacramento,
California

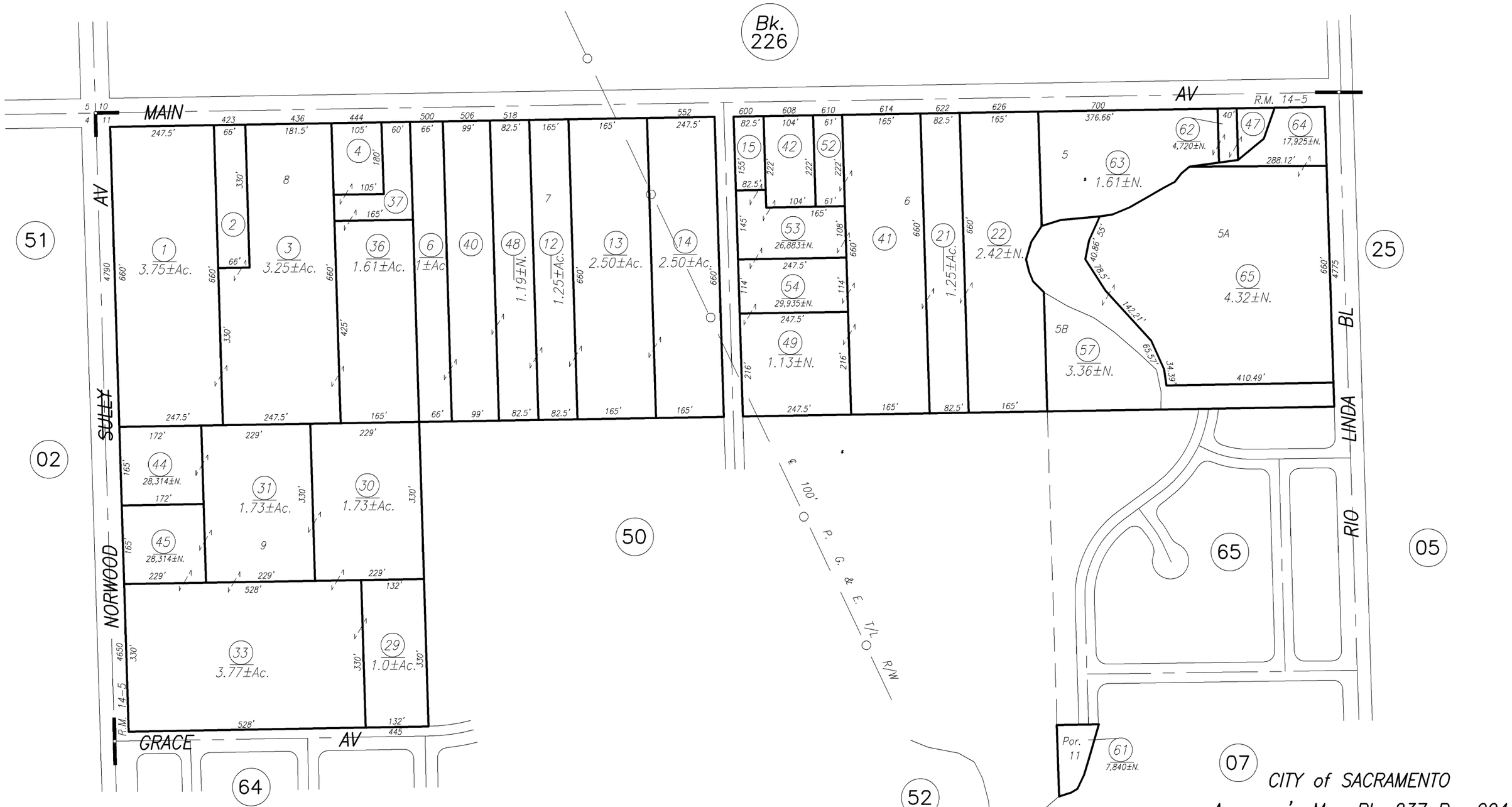
GEOCON Project No. S2317-07-01 | March 2022

APPENDIX A

DISCLAIMER: ASSESSORS PARCELS ARE FOR TAX ASSESSMENT PURPOSES ONLY AND DO NOT INDICATE EITHER PARCEL LEGALITY OR A VALID BUILDING SITE. THE COUNTY OF SACRAMENTO ASSUMES NO RESPONSIBILITY ARISING FROM USE OF THIS INFORMATION.

POR. SEC. 11, RANCHO DEL PASO

237-004



Sub .Section 11, R.M. Bk.14 Pg.5

CITY of SACRAMENTO
Assessor's Map Bk. 237 Pg. 004
County of Sacramento, Calif.

FEB 3RD, 2018

APPENDIX B

Raney 4790 Norwood Ave Phase I ESA
4790 Norwood Avenue
Sacramento, CA 95838

Inquiry Number: 6838431.2s
January 28, 2022

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4790 NORWOOD AVENUE
SACRAMENTO, CA 95838

COORDINATES

Latitude (North):	38.6539860 - 38ˆ 39' 14.34''
Longitude (West):	121.4564250 - 121ˆ 27' 23.13''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	634316.4
UTM Y (Meters):	4279303.0
Elevation:	39 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12021639 RIO LINDA, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140621
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
4790 NORWOOD AVENUE
SACRAMENTO, CA 95838

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	NORWOOD JUNIOR HIGH	NORWOOD AVENUE/MAIN	CA ENVIROSTOR, CA SCH, CA CERS	Higher	1 ft.
2	YAMANAKA LANDSCAPE	448 MAIN AV	CA Sacramento Co. ML	Higher	327, 0.062, ESE
3	AT&T MOBILITY - NORW	475 MAIN ST	CA Sacramento Co. ML	Higher	579, 0.110, ENE
4	GREENWAY ENTERPRISES	610 MAIN AVE	CA Sacramento Co. ML	Lower	1288, 0.244, East
A5	JASON KU	4801 RIO LINDA BL	CA Sacramento Co. CS, CA Sacramento Co. ML	Lower	2309, 0.437, ENE
A6	NOLAN SELF SERVE (FO	4801 RIO LINDA BLVD	CA LUST, CA CHMIRS, CA Cortese, CA HIST CORTESE,...	Lower	2309, 0.437, ENE
7	A&M AUTO DISMANTLER	716 BELL AVE	CA ENVIROSTOR, CA CERS HAZ WASTE, CA Sacramento...	Lower	2806, 0.531, SE
8	GATEWAY COMMUNITY CH	4525 MAY STREET	CA ENVIROSTOR, CA SCH	Higher	3812, 0.722, ESE
9	QUALEX, INC. - SACRA	125 MAIN AVENUE	CA ENVIROSTOR	Lower	4033, 0.764, WNW
10	FEDERAL COURTHOUSE -	5TH AND I STREETS	CA ENVIROSTOR, CA VCP, CA DEED	Higher	4127, 0.782, ESE
11	ULTIMA CIRCUITS LLC	4361 PELL DRIVE	RCRA-LQG, CA ENVIROSTOR, CA CPS-SLIC, CA HIST...	Lower	4529, 0.858, WSW
12	CAE VANGUARD INC	4391 PELL DR BLDG D	RCRA-SQG, CA ENVIROSTOR, FINDS, ECHO	Lower	4804, 0.910, WSW
13	PELL DRIVE	4220 PELL DRIVE	CA ENVIROSTOR, CA VCP	Lower	4950, 0.938, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-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

EXECUTIVE SUMMARY

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

CA RESPONSE..... State Response Sites

Lists of state and tribal landfills and solid waste disposal facilities

CA SWF/LF..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
CA UST..... Active UST Facilities
CA AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

CA BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT..... Waste Management Unit Database
CA SWRCY..... Recycler Database
CA 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
CA HIST Cal-Sites..... Historical Calsites Database
CA CDL..... Clandestine Drug Labs
CA Toxic Pits..... Toxic Pits Cleanup Act Sites

EXECUTIVE SUMMARY

US CDL	National Clandestine Laboratory Register
CA PFAS	PFAS Contamination Site Location Listing
CA AQUEOUS FOAM	Former Fire Training Facility Assessments Listing

Local Lists of Registered Storage Tanks

CA SWEEPS UST	SWEEPS UST Listing
CA HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database
CA CERS TANKS	California Environmental Reporting System (CERS) Tanks

Local Land Records

CA LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CA LDS	Land Disposal Sites Listing
CA MCS	Military Cleanup Sites Listing
CA SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites

EXECUTIVE SUMMARY

US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CA CUPA Listings	CUPA Resources List
CA DRYCLEANERS	Cleaner Facilities
CA EMI	Emissions Inventory Data
CA ENF	Enforcement Action Listing
CA Financial Assurance	Financial Assurance Information Listing
CA HAZNET	Facility and Manifest Data
CA ICE	ICE
CA HWP	EnviroStor Permitted Facilities Listing
CA HWT	Registered Hazardous Waste Transporter Database
CA MINES	Mines Site Location Listing
CA MWMP	Medical Waste Management Program Listing
CA NPDES	NPDES Permits Listing
CA PEST LIC	Pesticide Regulation Licenses Listing
CA PROC	Certified Processors Database
CA Notify 65	Proposition 65 Records
CA UIC	UIC Listing
CA UIC GEO	UIC GEO (GEOTRACKER)
CA WASTEWATER PITS	Oil Wastewater Pits Listing
CA WIP	Well Investigation Program Case List
CA MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT	PROJECT (GEOTRACKER)
CA WDR	Waste Discharge Requirements Listing
CA CIWQS	California Integrated Water Quality System
CA NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
CA OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
CA HWTS	Hazardous Waste Tracking System
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF	Recovered Government Archive Solid Waste Facilities List
CA RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 10/25/2021 has revealed that there are 8 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORWOOD JUNIOR HIGH Facility Id: 34970009 Status: No Action Required	***NORWOOD AVENUE/MAIN***	***0 - 1/8 (0.000 mi.)***	***1***	***9***
GATEWAY COMMUNITY CH Facility Id: 60001750 Status: No Action Required	***4525 MAY STREET***	***ESE 1/2 - 1 (0.722 mi.)***	***8***	***30***
FEDERAL COURTHOUSE - Facility Id: 34750040 Status: Certified O&M - Land Use Restrictions Only	***5TH AND I STREETS***	***ESE 1/2 - 1 (0.782 mi.)***	***10***	***34***

Lower Elevation	Address	Direction / Distance	Map ID	Page
A&M AUTO DISMANTLER Facility Id: 34590004 Status: Refer: Other Agency	***716 BELL AVE***	***SE 1/2 - 1 (0.531 mi.)***	***7***	***23***
QUALEX, INC. - SACRA Facility Id: 71003352 Status: Inactive - Needs Evaluation	125 MAIN AVENUE	WNW 1/2 - 1 (0.764 mi.)	9	33
ULTIMA CIRCUITS LLC Facility Id: 71003118 Status: Inactive - Needs Evaluation	***4361 PELL DRIVE***	***WSW 1/2 - 1 (0.858 mi.)***	***11***	***39***
CAE VANGUARD INC	***4391 PELL DR BLDG D***	***WSW 1/2 - 1 (0.910 mi.)***	***12***	***89***

Facility Id: 71003566
Status: Inactive - Needs Evaluation

PELL DRIVE	***4220 PELL DRIVE***	***SW 1/2 - 1 (0.938 mi.)***	***13***	***93***

Facility Id: 60001003
Status: Inactive - Needs Evaluation

Lists of state and tribal leaking storage tanks

CA LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA LUST list, as provided by EDR, has revealed that there is 1 CA LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOLAN SELF SERVE (FO	***4801 RIO LINDA BLVD***	***ENE 1/4 - 1/2 (0.437 mi.)***	***A6***	***14***

Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 09/07/2021
Status: Completed - Case Closed
Status: Pollution Characterization
Global Id: T0606700534

CA Sacramento Co. CS: List of sites where unauthorized releases of potentially hazardous materials have occurred.

A review of the CA Sacramento Co. CS list, as provided by EDR, and dated 06/18/2021 has revealed that there is 1 CA Sacramento Co. CS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
JASON KU	***4801 RIO LINDA BL***	***ENE 1/4 - 1/2 (0.437 mi.)***	***A5***	***13***

Facility Id: RO0001010

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CA SCH: 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.

A review of the CA SCH list, as provided by EDR, and dated 10/25/2021 has revealed that there is 1 CA SCH site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORWOOD JUNIOR HIGH	***NORWOOD AVENUE/MAIN***	***0 - 1/8 (0.000 mi.)***	***1***	***9***

Facility Id: 34970009
Status: No Action Required

Other Ascertainable Records

CA 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 CA Cortese list, as provided by EDR, and dated 09/20/2021 has revealed that there is 1 CA Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOLAN SELF SERVE (FO	***4801 RIO LINDA BLVD***	***ENE 1/4 - 1/2 (0.437 mi.)***	***A6***	***14***
Cleanup Status: COMPLETED - CASE CLOSED				

CA 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 [CALSITES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 CA HIST CORTESE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOLAN SELF SERVE (FO	***4801 RIO LINDA BLVD***	***ENE 1/4 - 1/2 (0.437 mi.)***	***A6***	***14***
Reg Id: 340629				

CA Sacramento Co. ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the CA Sacramento Co. ML list, as provided by EDR, and dated 08/02/2021 has revealed that there are 3 CA Sacramento Co. ML sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
YAMANAKA LANDSCAPE	448 MAIN AV	ESE 0 - 1/8 (0.062 mi.)	2	12
Facility Status: Inactive. Included on a listing no longer updated.				
AT&T MOBILITY - NORW	475 MAIN ST	ENE 0 - 1/8 (0.110 mi.)	3	12
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
GREENWAY ENTERPRISES	610 MAIN AVE	E 1/8 - 1/4 (0.244 mi.)	4	13

CA CERS: 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

A review of the CA CERS list, as provided by EDR, and dated 10/18/2021 has revealed that there is 1

EXECUTIVE SUMMARY

CA CERS site within approximately 0.001 miles of the target property.

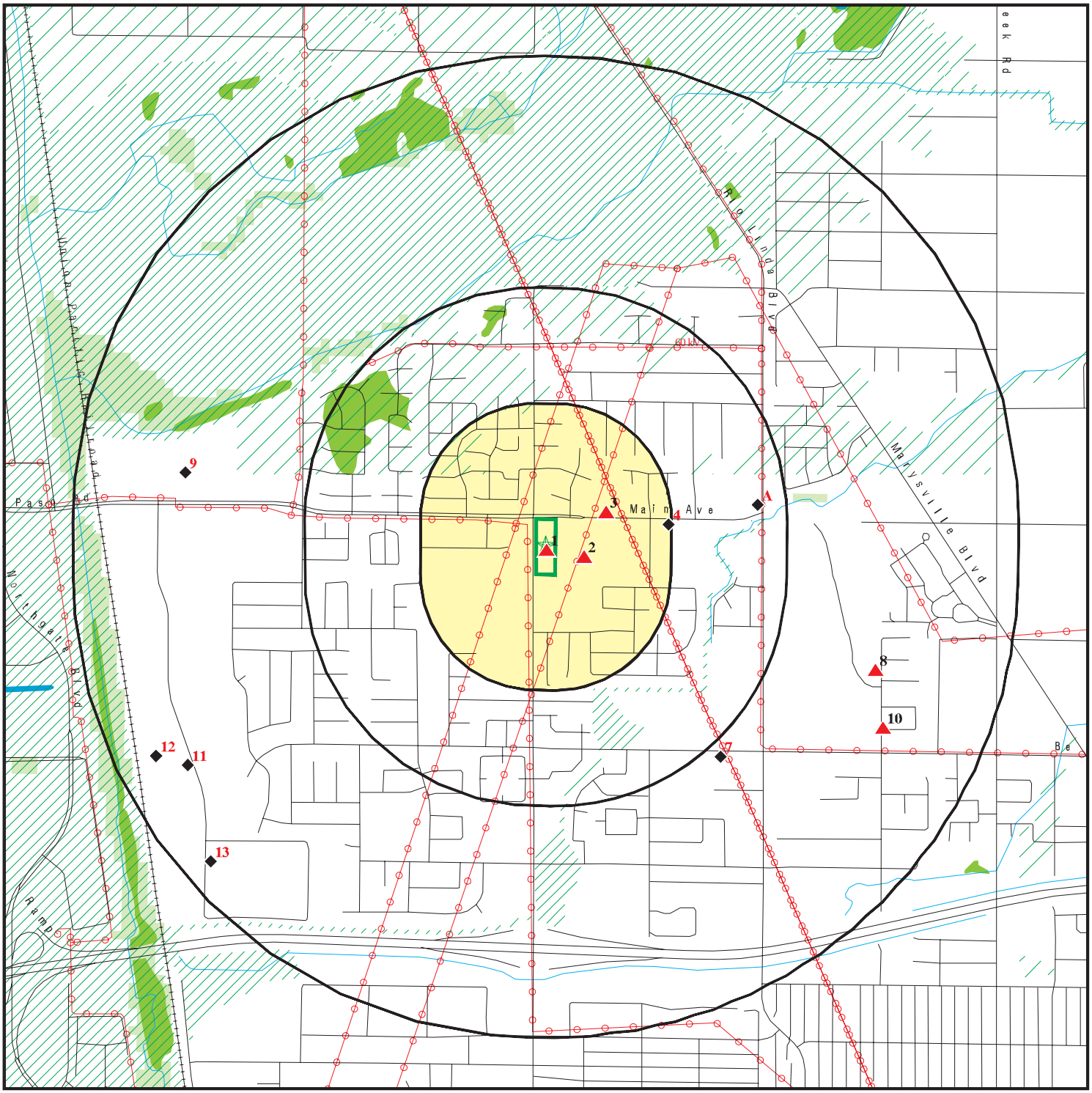
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORWOOD JUNIOR HIGH	***NORWOOD AVENUE/MAIN***	***0 - 1/8 (0.000 mi.)***	***1***	***9***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
NORTHLAKE SCHOOL	CA ENVIROSTOR, CA SCH
SAC COUNTY ARDEN GOLD PUMP ST	CA Sacramento Co. CS

OVERVIEW MAP - 6838431.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Raney 4790 Norwood Ave Phase I ESA	CLIENT:	Geocon Consultants, Inc.
ADDRESS:	4790 Norwood Avenue Sacramento CA 95838	CONTACT:	Matthew Tidwell
		INQUIRY #:	6838431.2s
LAT/LONG:	38.653986 / 121.456425	DATE:	January 28, 2022 6:16 pm

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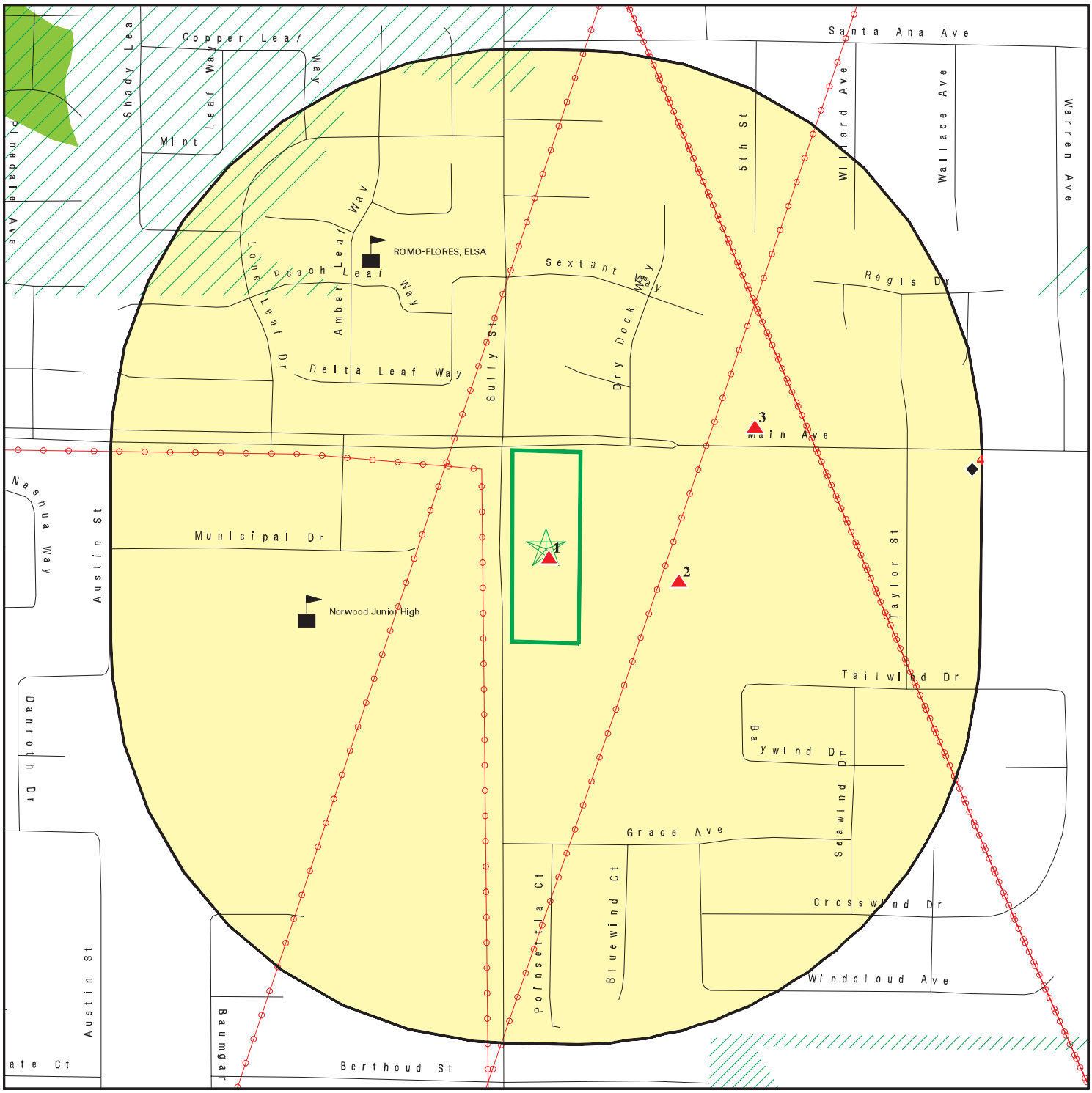
DETAIL MAP - 6838431.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 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: Raney 4790 Norwood Ave Phase I ESA	CLIENT: Geocon Consultants, Inc.
ADDRESS: 4790 Norwood Avenue Sacramento CA 95838	CONTACT: Matthew Tidwell INQUIRY #: 6838431.2s
LAT/LONG: 38.653986 / 121.456425	DATE: January 28, 2022 6:17 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
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
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
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
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
CA RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
CA ENVIROSTOR	1.000		1	0	0	7	NR	8
Lists of state and tribal landfills and solid waste disposal facilities								
CA SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
CA LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA CPS-SLIC	0.500		0	0	0	NR	NR	0
CA Sacramento Co. CS	0.500		0	0	1	NR	NR	1
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	0	NR	NR	NR	0
CA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA 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
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		1	0	NR	NR	NR	1
CA CDL	0.001		0	NR	NR	NR	NR	0
CA CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CA PFAS	0.500		0	0	0	NR	NR	0
CA AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		0	0	NR	NR	NR	0
CA HIST UST	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
CA FID UST	0.250		0	0	NR	NR	NR	0
CA CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	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

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
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA Cortese	0.500		0	0	1	NR	NR	1
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001		0	NR	NR	NR	NR	0
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	0	1	NR	NR	1
CA HWP	1.000		0	0	0	0	NR	0
CA HWT	0.250		0	0	NR	NR	NR	0
RI MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.250		0	0	NR	NR	NR	0
CA Sacramento Co. ML	0.250		2	1	NR	NR	NR	3
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001		0	NR	NR	NR	NR	0
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA CIWQS	0.001		0	NR	NR	NR	NR	0
CA CERS	0.001		1	NR	NR	NR	NR	1
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
CA HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	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								
CA RGA LF	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
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	5	1	4	7	0	17

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **NORWOOD JUNIOR HIGH** **CA ENVIROSTOR** **S118756798**
NORWOOD AVENUE/MAIN AVENUE **CA SCH** **N/A**
< 1/8 **SACRAMENTO, CA 95838** **CA CERS**
1 ft.

Relative:
Higher

Actual:
40 ft.

ENVIROSTOR:

Name:	NORWOOD JUNIOR HIGH
Address:	NORWOOD AVENUE/MAIN AVENUE
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	34970009
Status:	No Action Required
Status Date:	12/08/2000
Site Code:	104175
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	24.5
NPL:	NO
Regulatory Agencies:	DTSC
Lead Agency:	DTSC
Program Manager:	Charlie Ridenour
Supervisor:	Charles Ridenour
Division Branch:	Northern California Schools & Santa Susana
Assembly:	07
Senate:	06
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	38.65388
Longitude:	-121.4563
APN:	NONE SPECIFIED
Past Use:	* NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	GRANT JOINT UNION HIGH SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	GRANT JT USD-NORWOOD JUR HIGH
Alias Type:	Alternate Name
Alias Name:	NORWOOD JUNIOR HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	104175
Alias Type:	Project Code (Site Code)
Alias Name:	34970009
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:	02/26/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	11/13/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

NORWOOD JUNIOR HIGH (Continued) **S118756798**

Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	12/08/2000
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:	NORWOOD JUNIOR HIGH
Address:	NORWOOD AVENUE/MAIN AVENUE
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	34970009
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	24.5
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Charlie Ridenour
Supervisor:	Charles Ridenour
Division Branch:	Northern California Schools & Santa Susana
Site Code:	104175
Assembly:	07
Senate:	06
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	12/08/2000
Restricted Use:	NO
Funding:	School District
Latitude:	38.65388
Longitude:	-121.4563
APN:	NONE SPECIFIED
Past Use:	* NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	GRANT JOINT UNION HIGH SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	GRANT JT USD-NORWOOD JUR HIGH
Alias Type:	Alternate Name
Alias Name:	NORWOOD JUNIOR HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	104175
Alias Type:	Project Code (Site Code)
Alias Name:	34970009
Alias Type:	Envirostor ID Number

NORWOOD JUNIOR HIGH (Continued) **S118756798**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	02/26/2001
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	11/13/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	12/08/2000
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:	NORWOOD JUNIOR HIGH
Address:	NORWOOD AVENUE/MAIN AVENUE
City,State,Zip:	SACRAMENTO, CA 95838
Site ID:	371423
CERS ID:	34970009
CERS Description:	School Investigation

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	Charles Ridenour
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Lead Project Manager
Entity Name:	CHARLIE RIDENOUR
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

2 ESE < 1/8 0.062 mi. 327 ft. | **YAMANAKA LANDSCAPE 448 MAIN AV SACRAMENTO, CA 95838** | **CA Sacramento Co. ML** | **S105270341 N/A**

Relative: Higher
Actual: 43 ft.

Sacramento Co. ML:

Name:	YAMANAKA LANDSCAPE
Address:	448 MAIN AV
City,State,Zip:	SACRAMENTO, CA 95838
Facility Id:	Not reported
Facility Status:	Inactive. Included on a listing no longer updated.
FD:	U
Billing Codes BP:	Disclaimer
Billing Codes UST:	No Tanks
WG Bill Code:	Oil Changed by Outside Company-No Fee
Target Property Bill Cod:	50
Food Bill Code:	50
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	0
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

---

3 ENE < 1/8 0.110 mi. 579 ft. | **AT&T MOBILITY - NORWOOD & MAIN (80130) 475 MAIN ST SACRAMENTO, CA 95838** | **CA Sacramento Co. ML** | **S109034772 N/A**

Relative: Higher
Actual: 42 ft.

Sacramento Co. ML:

Name:	AT&T MOBILITY - NORWOOD & MAIN (80130)
Address:	475 MAIN ST
City,State,Zip:	SACRAMENTO, CA 95838
Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	I
Billing Codes UST:	Not reported
WG Bill Code:	Not reported
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported

AT&T MOBILITY - NORWOOD & MAIN (80130) (Continued) **S109034772**

Tier Permitting: Not reported
AST Bill Code: Not reported
CALARP Bill Code: Not reported

4
East
1/8-1/4
0.244 mi.
1288 ft.

GREENWAY ENTERPRISES
610 MAIN AVE
SACRAMENTO, CA 95838

CA Sacramento Co. ML **S109034761**
N/A

Relative:
Lower

Actual:
38 ft.

Sacramento Co. ML:

Name:	GREENWAY ENTERPRISES
Address:	610 MAIN AVE
City,State,Zip:	SACRAMENTO, CA 95838
Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	I
Billing Codes UST:	Not reported
WG Bill Code:	Not reported
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

A5
ENE
1/4-1/2
0.437 mi.
2309 ft.

JASON KU
4801 RIO LINDA BL
SACRAMENTO, CA 95838

Site 1 of 2 in cluster A

CA Sacramento Co. CS **S123292015**
CA Sacramento Co. ML **N/A**

Relative:
Lower

Actual:
37 ft.

Sacramento Co. CS:

Name:	NOLAN'S SELF SERVE
Address:	4801 RIO LINDA BLVD
City,State,Zip:	SACRAMENTO, CA
State Site Number:	B537
Lead Staff:	Erikson, S.
Lead Agency:	HM
Remedial Action Taken:	NO
Substance:	Automotive(motor gasoline and additives)
Date Reported:	06/30/1992
Facility Id:	RO0001010
Case Type:	Soil only
Case Closed:	Not reported
Date Closed:	**Not reported**

JASON KU (Continued) **S123292015**

Case Type: **Soil only affected**
Substance: **Automotive(motor gasoline and additives)**

Sacramento Co. ML:

Name:	JASON KU
Address:	4801 RIO LINDA BL
City,State,Zip:	SACRAMENTO, CA 95838
Facility Id:	T0021386
Facility Status:	Inactive. Included on a listing no longer updated.
FD:	U
Billing Codes BP:	Disclaimer
Billing Codes UST:	No Tanks
WG Bill Code:	Oil Changed by Outside Company-No Fee
Target Property Bill Cod:	50
Food Bill Code:	50
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	07/24/1987
UST Inspection Date:	11/17/1988
UST Tank Test Date:	05/17/1990
Number of Tanks:	0
UST Tank Test Date:	Not reported
SIC Code:	5541
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

A6 **NOLAN SELF SERVE (FORMER)** **CA LUST** **S101300967**
ENE **4801 RIO LINDA BLVD** **CA CHMIRS** **N/A**
1/4-1/2 **SACRAMENTO, CA 95838** **CA Cortese**
0.437 mi. **CA HIST CORTESE**
2309 ft. **Site 2 of 2 in cluster A** **CA CERS**

Relative:
Lower

Actual:
37 ft.

LUST:

Name:	NOLAN SELF SERVE (FORMER)
Address:	4801 RIO LINDA BLVD
City,State,Zip:	SACRAMENTO, CA 95838
Lead Agency:	SACRAMENTO COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606700534
Global Id:	T0606700534
Latitude:	38.6550576
Longitude:	-121.4478573
Status:	Completed - Case Closed
Status Date:	06/18/2014
Case Worker:	Not reported
RB Case Number:	340629
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	B537/RO0001010
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Two steel gasoline underground storage tanks (USTs), estimated at 10,000 and 12,000-gallons, were installed in 1960 by the current owners. The prior property owner installed five smaller USTs, four of

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

which were unknown prior to 1999. One of the five original and the two 1960 USTs, along with one dispenser island, were reportedly removed in 1999. In 2000, the four additional USTs were located and removed from the site. From March 2003-December 2005, quarterly gauging and sampling of monitoring wells MW-1 through MW-6 was conducted. From May 2007-August 2009, a new consultant conducted quarterly gauging and sampling of monitoring wells MW-1 through MW-6. Monitoring well MW-7 has been sampled and gauged since May 2009. Semi-annual gauging and sampling of monitoring wells MW-1 through MW-7 since August 2009. The primary constituent of concern in groundwater at the site is 1,2- dichloroethane (1,2-DCA). A municipal drinking water supply well is located with 500 feet of the site.

LUST:

Global Id:	T0606700534
Contact Type:	Regional Board Caseworker
Contact Name:	VERA FISCHER
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 SUN CENTER DRIVE #200
City:	RANCHO CORDOVA
Email:	vera.fischer@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0606700534
Action Type:	ENFORCEMENT
Date:	05/11/2007
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0606700534
Action Type:	ENFORCEMENT
Date:	03/27/2007
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0606700534
Action Type:	ENFORCEMENT
Date:	03/20/2008
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0606700534
Action Type:	ENFORCEMENT
Date:	03/06/2009
Action:	File review
Global Id:	T0606700534
Action Type:	ENFORCEMENT
Date:	04/21/2009
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0606700534
Action Type:	ENFORCEMENT
Date:	06/15/2009
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0606700534
Action Type:	ENFORCEMENT
Date:	11/09/2009

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 05/05/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 02/06/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 03/11/2014
Action: Site Visit / Inspection / Sampling

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 11/05/2004
Action: Staff Letter

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 12/19/2003
Action: * Historical Enforcement

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 10/15/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 10/16/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 01/08/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 10/21/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 05/25/2011
Action: File review

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 10/07/2010
Action: Technical Correspondence / Assistance / Other

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 08/17/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 10/22/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 08/01/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 04/25/2011
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 05/18/2010
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 10/18/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 07/16/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 07/23/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 07/31/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 10/21/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 05/24/2011
Action: Verbal Enforcement

Global Id: T0606700534
Action Type: ENFORCEMENT

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

Date: 05/06/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 04/02/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 06/26/2013
Action: Clean Up Fund - Letter to RP

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 04/25/2011
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 04/25/2011
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 04/25/2011
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 03/12/2012
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 03/03/2010
Action: Verbal Enforcement

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 04/14/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 05/03/2010
Action: File review

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 09/16/2013
Action: State Water Board Closure Order

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 06/18/2014
Action: Closure/No Further Action Letter

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 05/14/2014
Action: File Review - Closure

Global Id: T0606700534
Action Type: Other
Date: 01/15/1992
Action: Leak Discovery

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 03/25/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 07/09/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 07/16/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 02/07/2012
Action: File review

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 02/22/2012
Action: Staff Letter

Global Id: T0606700534
Action Type: ENFORCEMENT
Date: 06/26/2013
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606700534
Action Type: Other
Date: 06/30/1992
Action: Leak Reported

Global Id: T0606700534
Action Type: RESPONSE
Date: 08/04/2020
Action: Other Report / Document

Global Id: T0606700534
Action Type: RESPONSE
Date: 03/27/2014
Action: Well Destruction Workplan - Regulator Responded

LUST:
Global Id: T0606700534

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

Status:	Open - Case Begin Date
Status Date:	01/15/1992
Global Id:	T0606700534
Status:	Open - Site Assessment
Status Date:	06/30/1993
Global Id:	T0606700534
Status:	Open - Site Assessment
Status Date:	06/17/2002
Global Id:	T0606700534
Status:	Open - Site Assessment
Status Date:	11/25/2003
Global Id:	T0606700534
Status:	Open - Eligible for Closure
Status Date:	03/27/2013
Global Id:	T0606700534
Status:	Completed - Case Closed
Status Date:	06/18/2014

LUST REG 5:

Name:	NOLAN SELF SERVE (FORMER)
Address:	4801 RIO LINDA BLVD
City:	SACRAMENTO
Region:	5
Status:	Pollution Characterization
Case Number:	340629
Case Type:	Other ground water affected
Substance:	GASOLINE
Staff Initials:	VJF
Lead Agency:	Local
Program:	LUST
MTBE Code:	N/A

CHMIRS:

Name:	Not reported
Address:	4801 RIO LINDA BLVD
City,State,Zip:	SACRAMENTO, CA 95838
OES Incident Number:	16-3974
OES notification:	06/30/2016
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1115
Year:	2016
Agency:	SMUD
Incident Date:	06/30/2016
Admin Agency:	Sacramento City Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Mineral Oil / Unknown PCB Content
Quantity Released:	5
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Caller stated that they have a release of 5 Gal(s) of mineral oil due to a pole mounted transformer malfunctioning resulting in the

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

release impacting the concrete, a small storage shed, and pbc piping, no waterways were impacted, release is contained and

CORTESE:

Name:	NOLAN SELF SERVE (FORMER)
Address:	4801 RIO LINDA BLVD
City,State,Zip:	SACRAMENTO, CA 95838
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0606700534
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	NOLAN SELF SERVE (FORMER)
edr_fadd1:	4801 RIO LINDA
City,State,Zip:	SACRAMENTO, CA 95838
Region:	CORTESE
Facility County Code:	34
Reg By:	LTNKA
Reg Id:	340629

CERS:

Name:	NOLAN SELF SERVE (FORMER)
Address:	4801 RIO LINDA BLVD
City,State,Zip:	SACRAMENTO, CA 95838
Site ID:	201380
CERS ID:	T0606700534
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	VERA FISCHER - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title:	Not reported
Affiliation Address:	11020 SUN CENTER DRIVE #200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

NOLAN SELF SERVE (FORMER) (Continued) **S101300967**

Affiliation Phone: ,

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7 SE 1/2-1 0.531 mi. 2806 ft.

A&M AUTO DISMANTLER
716 BELL AVE
SACRAMENTO, CA 95838

CA ENVIROSTOR **S100189356**
CA CERS HAZ WASTE **N/A**
CA Sacramento Co. ML
CA WDS
CA CERS

Relative: Lower

Actual: 36 ft.

ENVIROSTOR:

Name:	A & M AUTO WRECKERS
Address:	716 BELL AVE.
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	34590004
Status:	Refer: Other Agency
Status Date:	11/16/1994
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Sacramento
Assembly:	07
Senate:	06
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	38.64728
Longitude:	-121.4488
APN:	23701100070000
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	23701100070000
Alias Type:	APN
Alias Name:	34590004
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

A&M AUTO DISMANTLER (Continued) **S100189356**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:

Name:	A & M DISMANTLING, INC
Address:	716 BELL AVE
City,State,Zip:	SACRAMENTO, CA 95838
Site ID:	1994
CERS ID:	10218172
CERS Description:	Hazardous Waste Generator

Sacramento Co. ML:

Name:	A & M DISMANTLING, INC
Address:	716 BELL AVE
City,State,Zip:	SACRAMENTO, CA 95838
Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	A
Billing Codes UST:	Not reported
WG Bill Code:	A
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

WDS:

Name:	A&M AUTO DISMANTLER
Address:	716 Bell Ave
City:	SACRAMENTO
Facility ID:	5S 34I004043
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	0
Facility Telephone:	9169228833
Facility Contact:	JEFF GUY
Agency Name:	A&M AUTO WRECKERS LLC

A&M AUTO DISMANTLER (Continued) **S100189356**

Agency Address:	716 Bell Ave
Agency City,St,Zip:	Sacramento 958382207
Agency Contact:	JEFF GUY
Agency Telephone:	9169228833
Agency Type:	Private
SIC Code:	5015
SIC Code 2:	Not reported
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Primary Waste:	STORMS
Waste Type2:	Not reported
Waste2:	Stormwater Runoff
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CERS:

Name:	A & M DISMANTLING, INC
Address:	716 BELL AVE
City,State,Zip:	SACRAMENTO, CA 95838
Site ID:	1994
CERS ID:	10218172
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	1994
Site Name:	A & M DISMANTLING, INC
Violation Date:	12-28-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/15/2018. OBSERVATION: Waste antifreeze

A&M AUTO DISMANTLER (Continued) **S100189356**

and waste absorbent (oily debris) were observed in reportable quantities at the time of inspection. CORRECTIVE ACTION: Review/revise your HMBP to include all materials/wastes stored above reportable quantities (55 gallons, 500 pounds, or 200 cubic feet).

Violation Division: Sacramento County Env Management Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 1994
Site Name: A & M DISMANTLING, INC
Violation Date: 12-28-2017
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: Returned to compliance on 05/15/2018. OBSERVATION: One 55 gallon drum of waste oil located in the hazardous waste storage area was observed with an accumulation start date of 02/10/2017. OBSERVATION: One 55 gallon drum of waste antifreeze located in the shop was observed with an accumulation start date of 02/27/2017. OBSERVATION: One 55 gallon drum of waste absorbent located in the shop was observed with an accumulation start date of 09/4/2016. CORRECTIVE ACTION: Dispose of the above mentioned wastes and submit a copy of the manifest/receipt to this department.
Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 1994
Site Name: A & M DISMANTLING, INC
Violation Date: 12-28-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/19/2018. OBSERVATION: Universal waste handler failed to keep records of universal waste shipments or retain those records for at least 3 years. CORRECTIVE ACTION: Keep records of all universal waste shipments and maintained those records for or at least 3 years. Submit documentation to this Department demonstrating that the universal waste records are maintained for at least 3 years.
Violation Division: Sacramento County Env Management Department
Violation Program: HW
Violation Source: CERS,

Site ID: 1994
Site Name: A & M DISMANTLING, INC
Violation Date: 12-28-2017
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance

A&M AUTO DISMANTLER (Continued) **S100189356**

	with the requirements.
Violation Notes:	Returned to compliance on 05/15/2018. OBSERVATION: One 55 gallon drum of used oil and fuel filters located in the shop was observed with an accumulation start date of 07/14/2016. CORRECTIVE ACTION: Submit a bill of lading to this department demonstrating proper disposal. Additionally, obtain copies of all bills of lading for used oil and fuel filters for the past three years and submit copies to this department.
Violation Division:	Sacramento County Env Management Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	1994
Site Name:	A & M DISMANTLING, INC
Violation Date:	12-28-2017
Citation:	HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, Section(s) 25160.2
Violation Description:	Failure of a generator of hazardous waste that meets the conditions to be transported on a consolidated manifest to comply with one or more of the required consolidated manifesting procedures and retain copies of receipts for three years.
Violation Notes:	Returned to compliance on 01/19/2018. OBSERVATION: Consolidated Manifests for the past three years were not available at the time of inspection. CORRECTIVE ACTION: Locate a copy of all Consolidated Manifest receipts for the last three years and submit a copy to this department.
Violation Division:	Sacramento County Env Management Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	1994
Site Name:	A & M DISMANTLING, INC
Violation Date:	12-28-2017
Citation:	22 CCR 23 66273.35 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.35
Violation Description:	Failure to accumulate universal waste for one year or less and to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received.
Violation Notes:	Returned to compliance on 06/05/2018. OBSERVATION: Universal waste handler accumulated universal waste longer than one year. CORRECTIVE ACTION: Properly manage accumulated universal waste within one year. Submit documentation to this Department demonstrating that the universal waste has been properly managed within one year.
Violation Division:	Sacramento County Env Management Department
Violation Program:	HW
Violation Source:	CERS,

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Sacramento County Env Management Department
Eval Program:	HW
Eval Source:	CERS,

A&M AUTO DISMANTLER (Continued) **S100189356**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-26-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Sacramento County Env Management Department
Eval Program:	HMRRP
Eval Source:	CERS,

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Sacramento County Env Management Department
Eval Program:	HMRRP
Eval Source:	CERS,

Enforcement Action:

Site ID:	1994
Site Name:	A & M DISMANTLING, INC
Site Address:	716 BELL AVE
Site City:	SACRAMENTO
Site Zip:	95838
Enf Action Date:	03-15-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Sacramento County Env Management Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Site ID:	1994
Site Name:	A & M DISMANTLING, INC
Site Address:	716 BELL AVE
Site City:	SACRAMENTO
Site Zip:	95838
Enf Action Date:	03-15-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Sacramento County Env Management Department
Enf Action Program:	HW
Enf Action Source:	CERS,

Coordinates:

Site ID:	1994
Facility Name:	A & M DISMANTLING, INC
Env Int Type Code:	HWG
Program ID:	10218172
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.,
Latitude:	38.647220
Longitude:	-121.449440

A&M AUTO DISMANTLER (Continued) **S100189356**

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Tracy Guy
Entity Title:	Vice President /CFO
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	CUPA District
Entity Name:	Sacramento County Environmental Management Departm
Entity Title:	Not reported
Affiliation Address:	11080 WHITE ROCK ROAD, STE. 200
Affiliation City:	RANCHO CORDOVA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95670
Affiliation Phone:	(916) 875-8550,

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jeff Guy
Entity Title:	Not reported
Affiliation Address:	716 Bell Ave
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95838
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	Jeff Guy
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 822-0524,

Affiliation Type Desc:	Parent Corporation
Entity Name:	A & M DISMANTLING, INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	Document Preparer
Entity Name:	Gordon Jeffrey Guy
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

A&M AUTO DISMANTLER (Continued) **S100189356**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	716 BELL AVE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95838
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	A & M DISMANTLING, INC
Entity Title:	Not reported
Affiliation Address:	716 BELL AVE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95838
Affiliation Phone:	(916) 932-0219,
Affiliation Type Desc:	Property Owner
Entity Name:	Jeff & Tracy Guy
Entity Title:	Not reported
Affiliation Address:	716 BELL AVE
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95838
Affiliation Phone:	(916) 922-8833,

8
ESE
1/2-1
0.722 mi.
3812 ft.

GATEWAY COMMUNITY CHARTERS PROPOSED NEW CHARTER SC **CA ENVIROSTOR** **S118757253**
4525 MAY STREET **CA SCH** **N/A**
SACRAMENTO, CA 95838

Relative:
Higher

Actual:
43 ft.

ENVIROSTOR:

Name:	GATEWAY COMMUNITY CHARTERS PROPOSED NEW CHARTER SCHOOL
Address:	4525 MAY STREET
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	60001750
Status:	No Action Required
Status Date:	08/20/2012
Site Code:	104705
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	19.2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Mellan Songco
Supervisor:	Juan Koponen
Division Branch:	Northern California Schools & Santa Susana

GATEWAY COMMUNITY CHARTERS PROPOSED NEW CHARTER SCHOOL (Continued) **S118757253**

Assembly:	05
Senate:	06
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	38.65033
Longitude:	-121.4451
APN:	237-0081-001
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	237-0081-001
Alias Type:	APN
Alias Name:	104705
Alias Type:	Project Code (Site Code)
Alias Name:	60001750
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:	08/07/2012
Comments:	On August 7, 2012, DTSC issued the approval letter for the revised Phase I ESA with a no action determination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	07/13/2012
Comments:	On July 13, 2012, DTSC conducted a site visit. No structures or pole-mounted transformers were observed during the site visit; the site was vacant.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	08/20/2012
Comments:	On August 20, 2012, DTSC Schools Unit issued the CRU letter

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:	GATEWAY COMMUNITY CHARTERS PROPOSED NEW CHARTER SCHOOL
Address:	4525 MAY STREET
City,State,Zip:	SACRAMENTO, CA 95838

GATEWAY COMMUNITY CHARTERS PROPOSED NEW CHARTER SCHOOL (Continued) **S118757253**

Facility ID:	60001750
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	19.2
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Mellan Songco
Supervisor:	Juan Koponen
Division Branch:	Northern California Schools & Santa Susana
Site Code:	104705
Assembly:	05
Senate:	06
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	08/20/2012
Restricted Use:	NO
Funding:	School District
Latitude:	38.65033
Longitude:	-121.4451
APN:	237-0081-001
Past Use:	NONE
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	237-0081-001
Alias Type:	APN
Alias Name:	104705
Alias Type:	Project Code (Site Code)
Alias Name:	60001750
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:	08/07/2012
Comments:	On August 7, 2012, DTSC issued the approval letter for the revised Phase I ESA with a no action determination.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	07/13/2012
Comments:	On July 13, 2012, DTSC conducted a site visit. No structures or pole-mounted transformers were observed during the site visit; the site was vacant.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	08/20/2012
Comments:	On August 20, 2012, DTSC Schools Unit issued the CRU letter

Future Area Name:	Not reported
Future Sub Area Name:	Not reported

GATEWAY COMMUNITY CHARTERS PROPOSED NEW CHARTER SCHOOL (Continued) **S118757253**

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

9
WNW
1/2-1
0.764 mi.
4033 ft.

QUALEX, INC. - SACRAMENTO
125 MAIN AVENUE
SACRAMENTO, CA 95838

CA ENVIROSTOR **S103626667**
N/A

Relative:
Lower

Actual:
37 ft.

ENVIROSTOR:

Name:	QUALEX, INC. - SACRAMENTO
Address:	125 MAIN AVENUE
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	71003352
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Sacramento
Assembly:	07
Senate:	06
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	38.65631
Longitude:	-121.4708
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL000142550
Alias Type:	EPA Identification Number
Alias Name:	71003352
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported

QUALEX, INC. - SACRAMENTO (Continued) **S103626667**

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

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10 ESE 1/2-1 0.782 mi. 4127 ft. | **FEDERAL COURTHOUSE - SACRAMENTO** | **CA ENVIROSTOR** | **S106568278**
5TH AND I STREETS | **CA VCP** | **N/A**
SACRAMENTO, CA 95814 | **CA DEED**

Relative: Higher
Actual: 42 ft.

ENVIROSTOR:

Name:	FEDERAL COURTHOUSE - SACRAMENTO
Address:	5TH AND I STREETS
City,State,Zip:	SACRAMENTO, CA 95814
Facility ID:	34750040
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	06/28/1996
Site Code:	Not reported
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	3
NPL:	NO
Regulatory Agencies:	SMBRP, RWQCB 5R - Central Valley
Lead Agency:	NONE SPECIFIED
Program Manager:	Mera Golo
Supervisor:	Fernando A. Amador
Division Branch:	Cleanup Sacramento
Assembly:	07
Senate:	06
Special Program:	Voluntary Cleanup Program
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	38.58305
Longitude:	-121.4991
APN:	NONE SPECIFIED
Past Use:	RAIL ROAD MAINTENANCE SHOP
Potential COC:	* HALOGENATED ORGANIC COMPOUNDS * CONTAMINATED SOIL * UNSPECIFIED OIL CONTAINING WASTE
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	SP-SACTO COURTHOUSE
Alias Type:	Alternate Name
Alias Name:	110033615318
Alias Type:	EPA (FRS #)
Alias Name:	100365
Alias Type:	Site Code - Historical
Alias Name:	34750040
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report

FEDERAL COURTHOUSE - SACRAMENTO (Continued) **S106568278**

Completed Date: 06/27/1996
Comments: RA -- The property includes a small triangle of Southern Pacific Railroad property which was remediated and Certi- fied as part of the Sacramento Station Study Area. The remainder of the property, which is the subject of this Certification, was owned by the City of Sacramento. The City portion of the property was used as a vehicle park- ing, fueling, maintenance and repair facility for the Sacramento City Police Dept. Underground waste oil, motor oil, and antifreeze tanks were removed in early 1995 from the site under Sacramento County Underground Tank Program oversight. The property contained fill material from unknown sources. Soils were impacted by petroleum hydrocarbons, polycyclic aromatic hydrocarbons, and lead. Contaminated soils were excavated and trans- ported to a Class I or Class II landfill, as appropriate. Construction of a new federal courthouse is currently underway at the remediated site. 3.0 acres of land returned/released for reuse; 8,748 cu yds disposed to landfill.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/30/1994
Comments: RI/FS -- The City of Sacramento has conducted soil and groundwater investigation on their portion of the Courthouse property. The City has committed to taking soil excavated as part of construction to a Class III landfill, except soil found above established remediation standards. An area of soil contaminated with PAHs will be remediated. Groundwater extracted as part of construction will be treated, filtered and discharged to the storm/sanitary sewer system. (RP funded)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 10/18/1996
Comments: VCONS -- The property includes a small triange of Southern Pacific Railroad property which was remediated and certified as part of the Sacramento Station Study Area. The remainder of the property, which is the subject of this certification, was owned by the City of Sacramento. The City portion of the property was used as a vehicle parking, fueling, maintenance and repair facility for the Sacramento City Police Department. Underground waste oil, motor oil, and antifreeze tanks were removed in early 1995 from the site under Sacramento County Underground Tank Program oversight. The property contained fill material from unknown sources. Soils were impacted by petroleum hydrocarbons, polycyclic aromatic hydrocarbons, and lead. Contaminated soils were excavated and transported to a Class II or III landfill, as appropriate. Construction of a new federal courthouse is currently underway at the remediated site. The work was carried out under a Voluntary Cleanup Program (VCP) Agreement, Agreement #94-182. The project is now considered complete. In July 1995 a Deed Restriction (DR) was recorded w/Sacramento County. The DR prohibits extraction or use of groundwater and excavation of any soil without prior DTSC approval. Additionally, use of the land for farming, hospitals, schools, or for residential land use is prohibited. On August 29, 1995 contruction of the Federal Courthouse officially began. The $142 million dollar 380,000 square foot building will produce more than 1,000 new construction jobs and 200

FEDERAL COURTHOUSE - SACRAMENTO (Continued) **S106568278**

permanent jobs. The Federal Courthouse is the first new federal building to be built in the City of Sacramento since 1961 and is the single biggest construction project in the City of Sacramento's history.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/28/1996
Comments: CERT -- See comments under 6/27/96.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/19/1995
Comments: Deed Restriction restricts owners and occupants from extracting, consuming exposing or utilizing in any way groundwater prior to the Department's approval. The deed restriction also prevents hinderence with equipment associated with the groundwater monitoring and treatment systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/14/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/02/1993
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

VCP:
Name: FEDERAL COURTHOUSE - SACRAMENTO
Address: 5TH AND I STREETS
City,State,Zip: SACRAMENTO, CA 95814
Facility ID: 34750040
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, RWQCB 5R - Central Valley
Lead Agency: NONE SPECIFIED
Lead Agency Description: Not reported
Project Manager: Mera Golo

FEDERAL COURTHOUSE - SACRAMENTO (Continued) **S106568278**

Supervisor:	Fernando A. Amador
Division Branch:	Cleanup Sacramento
Site Code:	Not reported
Assembly:	07
Senate:	06
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	06/28/1996
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	38.58305 / -121.4991
APN:	NONE SPECIFIED
Past Use:	RAIL ROAD MAINTENANCE SHOP
Potential COC:	10002, 10097, 10196
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	SP-SACTO COURTHOUSE
Alias Type:	Alternate Name
Alias Name:	110033615318
Alias Type:	EPA (FRS #)
Alias Name:	100365
Alias Type:	Site Code - Historical
Alias Name:	34750040
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	06/27/1996
Comments:	RA -- The property includes a small triangle of Southern Pacific Railroad property which was remediated and Certi- fied as part of the Sacramento Station Study Area. The remainder of the property, which is the subject of this Certification, was owned by the City of Sacramento. The City portion of the property was used as a vehicle park- ing, fueling, maintenance and repair facility for the Sacramento City Police Dept. Underground waste oil, motor oil, and antifreeze tanks were removed in early 1995 from the site under Sacramento County Underground Tank Program oversight. The property contained fill material from unknown sources. Soils were impacted by petroleum hydrocarbons, polycyclic aromatic hydrocarbons, and lead. Contaminated soils were excavated and trans- ported to a Class I or Class II landfill, as appropriate. Construction of a new federal courthouse is currently underway at the remediated site. 3.0 acres of land returned/released for reuse; 8,748 cu yds disposed to landfill.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	04/30/1994
Comments:	RI/FS -- The City of Sacramento has conducted soil and groundwater investigation on their portion of the Courthouse property. The City has committed to taking soil excavated as part of construction to a Class III landfill, except soil found above established remediation standards. An area of soil contaminated with PAHs will be remediated. Groundwater extracted as part of construction will be treated, filtered and discharged to the storm/sanitary sewer system. (RP funded)

FEDERAL COURTHOUSE - SACRAMENTO (Continued) **S106568278**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 10/18/1996
Comments: VCONS -- The property includes a small triange of Southern Pacific Railroad property which was remediated and certified as part of the Sacramento Station Study Area. The remainder of the property, which is the subject of this certification, was owned by the City of Sacramento. The City portion of the property was used as a vehicle parking, fueling, maintenance and repair facility for the Sacramento City Police Department. Underground waste oil, motor oil, and antifreeze tanks were removed in early 1995 from the site under Sacramento County Underground Tank Program oversight. The property contained fill material from unknown sources. Soils were impacted by petroleum hydrocarbons, polycyclic aromatic hydrocarbons, and lead. Contaminated soils were excavated and transported to a Class II or III landfill, as appropriate. Construction of a new federal courthouse is currently underway at the remediated site. The work was carried out under a Voluntary Cleanup Program (VCP) Agreement, Agreement #94-182. The project is now considered complete. In July 1995 a Deed Restriction (DR) was recorded w/Sacramento County. The DR prohibits extraction or use of groundwater and excavation of any soil without prior DTSC approval. Additionally, use of the land for farming, hospitals, schools, or for residential land use is prohibited. On August 29, 1995 contruction of the Federal Courthouse officially began. The $142 million dollar 380,000 square foot building will produce more than 1,000 new construction jobs and 200 permanent jobs. The Federal Courthouse is the first new federal building to be built in the City of Sacramento since 1961 and is the single biggest construction project in the City of Sacramento's history.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/28/1996
Comments: CERT -- See comments under 6/27/96.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/19/1995
Comments: Deed Restriction restricts owners and occupants from extracting, consuming exposing or utilizing in any way groundwater prior to the Department's approval. The deed restriction also prevents hinderence with equipment associated with the groundwater monitoring and treatment systems.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/14/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery

FEDERAL COURTHOUSE - SACRAMENTO (Continued) **S106568278**

Completed Date: 08/02/1993
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

DEED:
Name: FEDERAL COURTHOUSE - SACRAMENTO
Address: 5TH AND I STREETS
City,State,Zip: SACRAMENTO, CA 95814
Envirostor ID: 34750040
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 07/19/1995
File Name: Envirostor Land Use Restrictions

11
WSW
1/2-1
0.858 mi.
4529 ft.

Relative:
Lower

Actual:
26 ft.

ULTIMA CIRCUITS LLC
4361 PELL DRIVE
SACRAMENT, CA 95828

RCRA-LQG **1000818187**
CA ENVIROSTOR **CAD983576760**
CA CPS-SLIC
CA HIST CORTESE
RI MANIFEST
CA Sacramento Co. ML
CA CERS

RCRA-LQG:
Date Form Received by Agency: 20080306
Handler Name: ULTIMA CIRCUITS LLC
Handler Address: 4361 PELL DRIVE
Handler City,State,Zip: SACRAMENT, CA 95828
EPA ID: CAD983576760
Contact Name: JOHN G SCANLAN
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: 916-924-3532
Contact Fax: Not reported
Contact Email: PCBOARDS@CWNET.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Large Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: 2007
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Mailing Address:	4361 PELL DRIVE
Mailing City,State,Zip:	SACRAMENTO, CA 95828
Owner Name:	MARK A. MOSS
Owner Type:	Private
Operator Name:	GREG GERDES
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site 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:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20081015
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Biennial: List of Years
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F006
Waste Description: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Waste Code: F007
Waste Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GREGORY GERDES
Legal Status:	Private
Date Became Current:	20010724
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GREG GERDES
Legal Status:	Private
Date Became Current:	20010724
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARK A. MOSS
Legal Status:	Private

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Date Became Current:	20040505
Date Ended Current:	Not reported
Owner/Operator Address:	300 FRANK H AWAGA PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 95612
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GREG GERDES
Legal Status:	Private
Date Became Current:	20010724
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PROGRESSIVE CIRCUIT PRODUCTS INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4361 PELL DR
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95838
Owner/Operator Telephone:	916-924-3532
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARK A. MOSS
Legal Status:	Private
Date Became Current:	20040505
Date Ended Current:	Not reported
Owner/Operator Address:	300 FRANK H. OGAWA PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 95612
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ULTIMA CIRCUITS L L C
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4361 PELL DR
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95838-2532
Owner/Operator Telephone:	916-924-3532
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HARRY GERDES
Legal Status:	Private
Date Became Current:	20010724
Date Ended Current:	Not reported
Owner/Operator Address:	4361 PELL DRIVE
Owner/Operator City,State,Zip:	SACRAMENTO, CA 95838
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name:	ULTIMA CIRCUITS L L C
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20010817
Handler Name:	ULTIMA CIRCUITS L L C
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19940308
Handler Name:	PROGRESSIVE CIRCUIT PROD
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19960122
Handler Name:	PROGRESSIVE CIRCUIT PRODUCTIONS INC.
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19990316
Handler Name:	PROGRESSIVE CIRCUIT PRODUCTS, INC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20001012
Handler Name:	QQQ INC., D.B.A. PROGRESSIVE CIRCUITS
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020122
Handler Name:	ULTIMA CIRCUITS LLC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20040311
Handler Name:	ULTIMA CIRCUITS LLC
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20060224
Handler Name: ULTIMA CIRCUITA LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20080306
Handler Name: ULTIMA CIRCUITS LLC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	334112
NAICS Description:	COMPUTER STORAGE DEVICE MANUFACTURING

NAICS Code:	334411
NAICS Description:	ELECTRON TUBE MANUFACTURING

NAICS Code:	334412
NAICS Description:	BARE PRINTED CIRCUIT BOARD MANUFACTURING

NAICS Code:	336411
NAICS Description:	AIRCRAFT MANUFACTURING

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20040205
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20041018
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20070619
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 20070619
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20040205
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20040202
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20040205
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20041018
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20060216
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 500
Date of Enforcement Action: 20040202
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20070619
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	20070619
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20070619
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	20070619
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20040205
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20041018
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20070619
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	20070619
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	202
Date of Enforcement Action:	20060208
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	25000
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19940421
Actual Return to Compliance Date:	19990421
Return to Compliance Qualifier:	Not Resolved
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20041018
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20040205
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 500
Date of Enforcement Action: 20040202
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	201
Date of Enforcement Action:	20051123
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	SINGLE SITE CA/FO
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	195000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	200000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19901003
Actual Return to Compliance Date:	19911022
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20060216
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 20051123
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	195000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	200000
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Preparedness and Prevention
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20040205
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20041018
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20060216
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 203
Date of Enforcement Action: 20060623
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	4000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	4000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20040202
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20040205
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20040202
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20060216
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 20051123
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	195000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	200000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20040202
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20070619
Actual Return to Compliance Date:	20070619
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	601
Date of Enforcement Action:	20070619
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20070619
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 601
Date of Enforcement Action: 20070619
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	203
Date of Enforcement Action:	20060623
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	4000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	4000

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20040205
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20041018
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20060216
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 201
Date of Enforcement Action: 20051123
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	195000
Paid Amount:	Not reported
Final Count:	1
Final Amount:	200000
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	202
Date of Enforcement Action:	20060208
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	25000
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Tank System Standards
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	203
Date of Enforcement Action:	20060623
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 4000
Paid Amount: Not reported
Final Count: 1
Final Amount: 4000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20060216
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20041018
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20040202
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	202
Date of Enforcement Action:	20060208
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	25000
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19911022
Actual Return to Compliance Date:	19940421
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20040205
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20040202
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20060216
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 202
Date of Enforcement Action: 20060208
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: INITIAL 3008(A) COMPLIANCE
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	25000
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Container Use and Management
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20040205
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	20040202
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	203
Date of Enforcement Action:	20060623
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 4000
Paid Amount: Not reported
Final Count: 1
Final Amount: 4000

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Container Use and Management
Date Violation was Determined: 20040107
Actual Return to Compliance Date: 20060216
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 20041018
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20040107
Actual Return to Compliance Date:	20060216
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	20041018
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Evaluation Date:	20070619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19940421
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19990421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060216
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19901003
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19911022
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20020603
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20070619
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070619
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20040205
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20040107
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20060216
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20040107
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20060216
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20040107
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20060216
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20040107
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20060216
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19911022
Evaluation Responsible Agency:	State Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19940421
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040205
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

ENVIROSTOR:

Name:	PROGRESSIVE CIRCUIT PRODUCTS
Address:	4361 PELL DRIVE
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	71003118
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Sacramento
Assembly:	07
Senate:	06
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	38.64713
Longitude:	-121.4709
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD983576760
Alias Type:	EPA Identification Number
Alias Name:	110012428569
Alias Type:	EPA (FRS #)
Alias Name:	71003118
Alias Type:	Envirostor ID Number

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	06/30/2006
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

CPS-SLIC:

Name:	ULTIMA CIRCUITS (HK PROPERTIES)
Address:	4361 PELL DRIVE
City,State,Zip:	SACRAMENTO, CA
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/28/2010
Global Id:	SL0606723025
Lead Agency:	SACRAMENTO COUNTY
Lead Agency Case Number:	Not reported
Latitude:	38.647125
Longitude:	-121.470939
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	SACRAMENTO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Tetrachloroethylene (PCE)
Site History:	Printed circuit company operating under tiered permitting overseen by Sacramento County CUPA. Site closed for business in 2010. Initiated site closure investigation as a requirement of tiered operating permit. Site closure investigation completed and closure dcoumentation issued by Sacramento County CUPA on December 28, 2010.

Click here to access the California GeoTracker records for this facility:

HIST CORTESE:

edr_fname:	YENOVKIAN PROPERTY
edr_fadd1:	4361 PELL
City,State,Zip:	SACRAMENTO, CA 95838
Region:	CORTESE
Facility County Code:	34
Reg By:	LTNKA
Reg Id:	341238

RI MANIFEST:

Name: Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Address:	4361 PELL DRIVE
City,State,Zip:	SACRAMENTO, CA 95838
EPA Id:	CAD983576760
GEN Cert Date:	12/18/2001
Manifest Document Number:	RIH0017530
Waste Description:	CYANIDE
TSDF Id:	RID059735761
TSDF Name:	ADVANCED CHEMICAL CO INC
Qty:	25
WT/Vol Units:	G
TSDF Date:	Not reported
Transporter 2 Id:	Not reported
Item Number:	1
Transporter 2 Name:	Not reported
Transporter Name 2:	HAZMAT ENV GROUP INC
Transporter EPAID:	NYD980769947
Transporter Receipt Date:	Not reported
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	F007
Waste Code2:	D003
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Fee Exempt Code:	Not reported
Comment:	Not reported
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
Quarter:	Not reported
Transporter Contact Name:	Not reported
Transporter Contact Email:	Not reported
Filing Date:	Not reported
Total Fee:	Not reported
Billing Name:	Not reported
Paid Date:	Not reported
Paid Time:	Not reported
Facility Receipt Date:	Not reported
Fee:	Not reported
Manifest Created Date:	Not reported
Manifest Updated Date:	Not reported

RI MANIFEST:

Transporter Receipt Date:	Not reported
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	F007
Waste Code2:	D003
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	ADVANCED CHEMICAL CO INC
TSDF Id:	RID059735761
Transporter Name 2:	Not reported

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	CAD983576760
Manifest Docket Number:	RIH0017530
Quarter:	Not reported
Waste Description:	CYANIDE
Transporter Contact Name:	Not reported
Quantity:	25
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1
Transporter Name:	HAZMAT ENV GROUP INC
Billing Name:	Not reported
Transporter EPA ID:	NYD980769947
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	12/18/2001
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	Not reported
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	Not reported
Number Of Containers:	0
Container Type:	Not reported
Waste Code1:	F007
Waste Code2:	D003
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	ADVANCED CHEMICAL CO INC
TSDF Id:	RID059735761
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	CAD983576760
Manifest Docket Number:	RIH0017530
Quarter:	Not reported
Waste Description:	CYANIDE
Transporter Contact Name:	Not reported
Quantity:	25
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1
Transporter Name:	HAZMAT ENV GROUP INC
Billing Name:	Not reported
Transporter EPA ID:	NYD980769947

ULTIMA CIRCUITS LLC (Continued) **1000818187**

Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	12/18/2001
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	Not reported
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported

Sacramento Co. ML:

Name:	ULTIMA CIRCUITS LLC
Address:	4361 PELL DR
City,State,Zip:	SACRAMENTO, CA 95838
Facility Id:	Not reported
Facility Status:	Not reported
FD:	Not reported
Billing Codes BP:	I
Billing Codes UST:	Not reported
WG Bill Code:	I
Target Property Bill Cod:	Not reported
Food Bill Code:	Not reported
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	I
AST Bill Code:	Not reported
CALARP Bill Code:	Not reported

CERS:

Name:	ULTIMA CIRCUITS (HK PROPERTIES)
Address:	4361 PELL DRIVE
City,State,Zip:	SACRAMENTO, CA
Site ID:	218458
CERS ID:	SL0606723025
CERS Description:	Cleanup Program Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	CHARLEY LANGER - SACRAMENTO COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	10590 ARMSTRONG AVENUE, SUITE A
Affiliation City:	MATHER
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9168758474,

ULTIMA CIRCUITS LLC (Continued) **1000818187**

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:	,

12
WSW
1/2-1
0.910 mi.
4804 ft.

CAE VANGUARD INC
4391 PELL DR BLDG D AND E
SACRAMENTO, CA 95838

RCRA-SQG **1000886335**
CA ENVIROSTOR **CA0000138354**
FINDS
ECHO

Relative:
Lower

Actual:
27 ft.

RCRA-SQG:

Date Form Received by Agency:		19960901
Handler Name:	CAE VANGUARD INC	
Handler Address:		4391 PELL DR BLDG D AND E
Handler City,State,Zip:		SACRAMENTO, CA 95838
EPA ID:		CA0000138354
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PELL DR BLDG D AND E
Mailing City,State,Zip:		SACRAMENTO, CA 95838
Owner Name:		CAE VANGUARD INC
Owner Type:		Private
Operator Name:		Not reported
Operator Type:		Not reported
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

CAE VANGUARD INC (Continued) **1000886335**

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:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20060905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CAE VANGUARD INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3500 W 80TH ST STE 100
Owner/Operator City,State,Zip:	MINNEAPOLIS, MN 55431
Owner/Operator Telephone:	612-896-3914
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CAE VANGUARD INC (Continued) **1000886335**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CAE VANGUARD INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3500 W 80TH ST STE 100
Owner/Operator City,State,Zip:	MINNEAPOLIS, MN 55431
Owner/Operator Telephone:	612-896-3914
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19960901
Handler Name: CAE VANGUARD INC	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19960901
Handler Name: CAE VANGUARD INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19960122
Handler Name: CAE VANGUARD, INC.	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	33651
NAICS Description:	RAILROAD ROLLING STOCK MANUFACTURING

CAE VANGUARD INC (Continued) **1000886335**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

ENVIROSTOR:

Name:	CAE VANGUARD, INC.
Address:	4391 PELL DRIVE #E
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	71003566
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Sacramento
Assembly:	Not reported
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	38.64753
Longitude:	-121.4720
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA0000138354
Alias Type:	EPA Identification Number
Alias Name:	71003566
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported

CAE VANGUARD INC (Continued) **1000886335**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:
Registry ID: 110008258429

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000886335
Registry ID:	110008258429
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008258429
Name:	CAE VANGUARD INC
Address:	4391 PELL DR BLDG D AND E
City,State,Zip:	SACRAMENTO, CA 95838

13
SW
1/2-1
0.938 mi.
4950 ft.

PELL DRIVE
4220 PELL DRIVE
SACRAMENTO, CA 95838

CA ENVIROSTOR **S109348611**
CA VCP **N/A**

Relative:
Lower

Actual:
23 ft.

ENVIROSTOR:

Name:	PELL DRIVE
Address:	4220 PELL DRIVE
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	60001003
Status:	Inactive - Needs Evaluation
Status Date:	10/04/2018
Site Code:	101992
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	2.5
NPL:	NO
Regulatory Agencies:	SMBRP, SACRAMENTO COUNTY
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Steven Becker
Division Branch:	Cleanup San Joaquin
Assembly:	07
Senate:	06
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	38.64407
Longitude:	-121.4694

PELL DRIVE (Continued) **S109348611**

APN:	23704000190000
Past Use:	DISTRIBUTOR - CHEMICAL
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE
Potential Description:	SOIL, SV
Alias Name:	23704000190000
Alias Type:	APN
Alias Name:	101992
Alias Type:	Project Code (Site Code)
Alias Name:	60001003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	08/25/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement Termination Notification
Completed Date:	07/19/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	01/23/2009
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

VCP:

Name:	PELL DRIVE
Address:	4220 PELL DRIVE
City,State,Zip:	SACRAMENTO, CA 95838
Facility ID:	60001003
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	2.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, SACRAMENTO COUNTY
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Steven Becker
Division Branch:	Cleanup San Joaquin

PELL DRIVE (Continued) **S109348611**

Site Code:	101992
Assembly:	07
Senate:	06
Special Programs Code:	Voluntary Cleanup Program
Status:	Inactive - Needs Evaluation
Status Date:	10/04/2018
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	38.64407 / -121.4694
APN:	23704000190000
Past Use:	DISTRIBUTOR - CHEMICAL
Potential COC:	30022, 30027
Confirmed COC:	30022
Potential Description:	SOIL, SV
Alias Name:	23704000190000
Alias Type:	APN
Alias Name:	101992
Alias Type:	Project Code (Site Code)
Alias Name:	60001003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	08/25/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement Termination Notification
Completed Date:	07/19/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	01/23/2009
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: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SACRAMENTO	S108963498	SAC COUNTY ARDEN GOLD PUMP ST	MAIN AVE		CA Sacramento Co. CS
SACRAMENTO	S126330265	NORTHLAKE SCHOOL	700 FT NORTH OF INTERSTATE 5 A	95835	CA ENVIROSTOR, CA SCH

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
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: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: N/A
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
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: 07/12/2021
Date Data Arrived at EDR: 08/06/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 77

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/08/2021
Next Scheduled EDR Contact: 02/21/2022
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: 08/23/2021
Date Data Arrived at EDR: 08/23/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/18/2021
Next Scheduled EDR Contact: 03/06/2022
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: 08/23/2021
Date Data Arrived at EDR: 08/23/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/19/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/21/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/09/2021
Date Data Arrived at EDR: 08/10/2021
Date Made Active in Reports: 11/05/2021
Number of Days to Update: 87

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/09/2021
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

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 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 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.

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: 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

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/20/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
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.

Date of Government Version: 08/18/2021
Date Data Arrived at EDR: 09/08/2021
Date Made Active in Reports: 12/03/2021
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/30/2021
Number of Days to Update: 84

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
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: 12/08/2021
Next Scheduled EDR Contact: 03/28/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/20/2021
Date Data Arrived at EDR: 09/21/2021
Date Made Active in Reports: 12/08/2021
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/08/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 09/14/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 12

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/05/2021
Next Scheduled EDR Contact: 02/21/2022
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: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 10/28/2021
Next Scheduled EDR Contact: 02/07/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/25/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/14/2022
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/25/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/18/2022
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: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Quarterly

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 12/01/2019
Date Data Arrived at EDR: 08/19/2021
Date Made Active in Reports: 10/28/2021
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 12/10/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/08/2021
Date Made Active in Reports: 12/01/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/31/2021
Next Scheduled EDR Contact: 02/14/2022
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: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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: 08/25/2021
Date Data Arrived at EDR: 09/03/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/14/2022
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: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 08/30/2021
Date Data Arrived at EDR: 08/31/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 80

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 11/30/2021
Next Scheduled EDR Contact: 03/14/2022
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: 09/12/2021
Date Data Arrived at EDR: 09/13/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 15

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
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: 09/30/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
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: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
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: 08/10/2021
Date Data Arrived at EDR: 08/17/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 66

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/14/2022
Next Scheduled EDR Contact: 04/25/2022
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
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/08/2021
Next Scheduled EDR Contact: 02/21/2022
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/01/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/05/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
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: 11/16/2021
Next Scheduled EDR Contact: 02/28/2022
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: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/01/2021
Next Scheduled EDR Contact: 03/14/2022
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: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 40

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/30/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/05/2021
Next Scheduled EDR Contact: 02/14/2022
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
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/27/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 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 Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/08/2022
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: 09/30/2021
Date Data Arrived at EDR: 10/13/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 89

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2022
Next Scheduled EDR Contact: 04/18/2022
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: 12/31/2019
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 90

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
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: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/01/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
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: 12/09/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/09/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
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: 11/22/2021
Next Scheduled EDR Contact: 03/07/2022
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: 09/14/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 91

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 03/21/2022
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: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 11/22/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/07/2022
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: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
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: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
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: 08/13/2021
Date Data Arrived at EDR: 08/13/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 70

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/15/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/20/2021
Date Data Arrived at EDR: 09/21/2021
Date Made Active in Reports: 12/08/2021
Number of Days to Update: 78

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
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
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/19/2021
Next Scheduled EDR Contact: 02/21/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/18/2021
Date Data Arrived at EDR: 08/23/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/24/2021
Date Data Arrived at EDR: 08/25/2021
Date Made Active in Reports: 11/17/2021
Number of Days to Update: 84

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/14/2022
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: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/05/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/13/2021
Date Data Arrived at EDR: 08/13/2021
Date Made Active in Reports: 11/05/2021
Number of Days to Update: 84

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 02/21/2022
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: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/13/2021
Date Data Arrived at EDR: 08/13/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 87

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/15/2021
Next Scheduled EDR Contact: 02/28/2022
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: 08/13/2021
Date Data Arrived at EDR: 08/13/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 87

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/15/2021
Next Scheduled EDR Contact: 02/28/2022
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: 10/04/2021
Date Data Arrived at EDR: 10/05/2021
Date Made Active in Reports: 12/22/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/04/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
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: 08/05/2021
Date Data Arrived at EDR: 08/31/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 80

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 11/30/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 11/09/2021
Date Made Active in Reports: 01/27/2022
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/09/2021
Next Scheduled EDR Contact: 02/21/2022
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: 08/30/2021
Date Data Arrived at EDR: 08/31/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 80

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 11/30/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 11/29/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/15/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
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: 09/07/2021
Date Data Arrived at EDR: 09/08/2021
Date Made Active in Reports: 12/01/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
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: 08/30/2021
Date Data Arrived at EDR: 08/31/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 11/30/2021
Next Scheduled EDR Contact: 03/14/2022
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: 10/18/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 85

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
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: 09/07/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
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: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

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: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
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: 07/13/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/18/2022
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: 11/23/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 09/30/2021
Date Data Arrived at EDR: 10/01/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 75

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/28/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/28/2021
Next Scheduled EDR Contact: 04/04/2022
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: 10/29/2021
Next Scheduled EDR Contact: 02/14/2022
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: 10/22/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 85

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 08/03/2021
Date Made Active in Reports: 10/26/2021
Number of Days to Update: 84

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/09/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/21/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/11/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/12/2022
Number of Days to Update: 84

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
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: 11/11/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 07/06/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 10/07/2021
Number of Days to Update: 56

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 11/11/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/06/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 6

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/11/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 12/22/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
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: 12/08/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 10/08/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 82

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
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: 10/12/2021
Date Data Arrived at EDR: 10/13/2021
Date Made Active in Reports: 01/04/2022
Number of Days to Update: 83

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
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: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 04/24/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
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: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
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
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/11/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/11/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 01/07/2022
Next Scheduled EDR Contact: 04/11/2022
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: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
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: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 10/27/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 85

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 11/04/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/08/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/29/2021
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 02/14/2022
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: 09/07/2021
Date Data Arrived at EDR: 09/09/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 81

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
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: 09/29/2021
Date Data Arrived at EDR: 09/30/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/28/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 09/29/2021
Date Data Arrived at EDR: 09/30/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 76

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/28/2022
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: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/11/2022
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: 08/02/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 11/02/2021
Number of Days to Update: 90

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 01/24/2022
Number of Days to Update: 80

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 02/14/2022
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: 08/11/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/01/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/30/2021
Date Data Arrived at EDR: 08/31/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 80

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 11/30/2021
Next Scheduled EDR Contact: 03/14/2022
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: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
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: 11/23/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 08/05/2021
Date Data Arrived at EDR: 08/05/2021
Date Made Active in Reports: 10/29/2021
Number of Days to Update: 85

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 11/11/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/01/2021
Next Scheduled EDR Contact: 02/14/2022
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: 08/05/2021
Date Data Arrived at EDR: 08/05/2021
Date Made Active in Reports: 10/29/2021
Number of Days to Update: 85

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/31/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/10/2021
Date Data Arrived at EDR: 08/11/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 89

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/11/2021
Next Scheduled EDR Contact: 02/28/2022
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: 12/10/2021
Next Scheduled EDR Contact: 03/21/2022
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: 12/02/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/11/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/04/2021
Date Data Arrived at EDR: 08/05/2021
Date Made Active in Reports: 10/29/2021
Number of Days to Update: 85

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/18/2021
Next Scheduled EDR Contact: 02/27/2022
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: 11/16/2021
Next Scheduled EDR Contact: 03/07/2022
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: 11/23/2021
Next Scheduled EDR Contact: 02/14/2022
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: 11/11/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/11/2021
Next Scheduled EDR Contact: 02/28/2022
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: 11/23/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/17/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 78

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/23/2021
Date Data Arrived at EDR: 08/25/2021
Date Made Active in Reports: 11/17/2021
Number of Days to Update: 84

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 02/14/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/29/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 79

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/05/2021
Next Scheduled EDR Contact: 02/21/2022
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: 09/29/2021
Date Data Arrived at EDR: 10/21/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 84

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 07/26/2021
Date Data Arrived at EDR: 09/08/2021
Date Made Active in Reports: 11/29/2021
Number of Days to Update: 82

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/07/2021
Next Scheduled EDR Contact: 03/21/2022
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: 09/23/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 78

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/26/2021
Date Data Arrived at EDR: 10/27/2021
Date Made Active in Reports: 01/20/2022
Number of Days to Update: 85

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
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: 07/23/2021
Date Data Arrived at EDR: 08/10/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 90

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/12/2021
Next Scheduled EDR Contact: 02/21/2022
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: 01/07/2022
Next Scheduled EDR Contact: 04/18/2022
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: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/29/2021
Next Scheduled EDR Contact: 02/07/2022
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: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/29/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/06/2021
Next Scheduled EDR Contact: 03/21/2022
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

RANEY 4790 NORWOOD AVE PHASE I ESA
4790 NORWOOD AVENUE
SACRAMENTO, CA 95838

TARGET PROPERTY COORDINATES

Latitude (North):	38.653986 - 38ˆ 39’ 14.35’’
Longitude (West):	121.456425 - 121ˆ 27’ 23.13’’
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	634316.4
UTM Y (Meters):	4279303.0
Elevation:	39 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12021639 RIO LINDA, CA
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

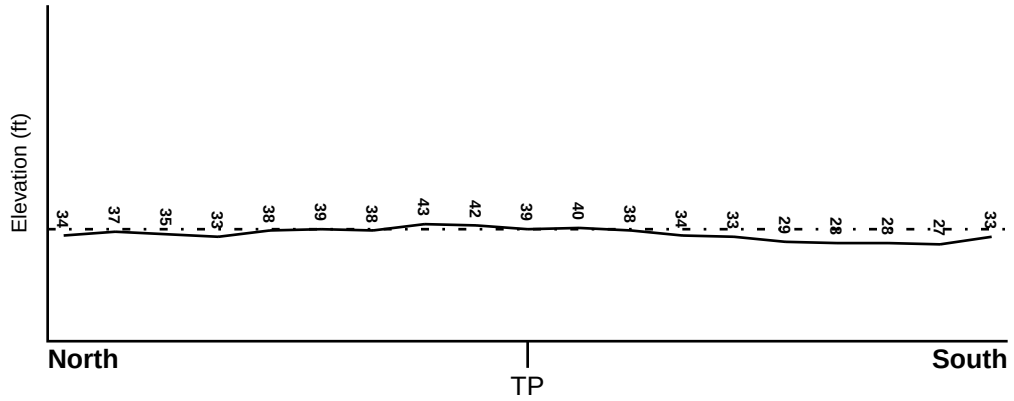
TOPOGRAPHIC INFORMATION

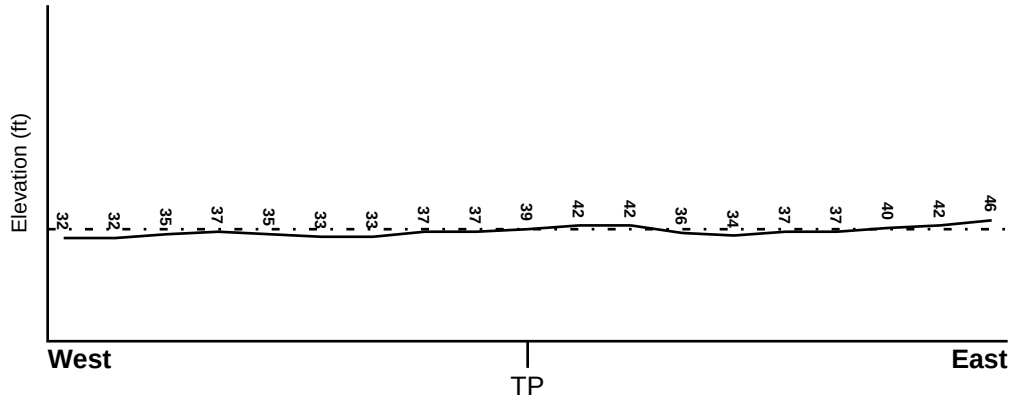
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

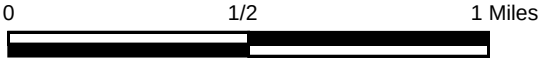
General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 39 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06067C0064J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06067C0062H	FEMA FIRM Flood data
06067C0061J	FEMA FIRM Flood data
0602660005E	FEMA Q3 Flood data
06067C0063J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
RIO LINDA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

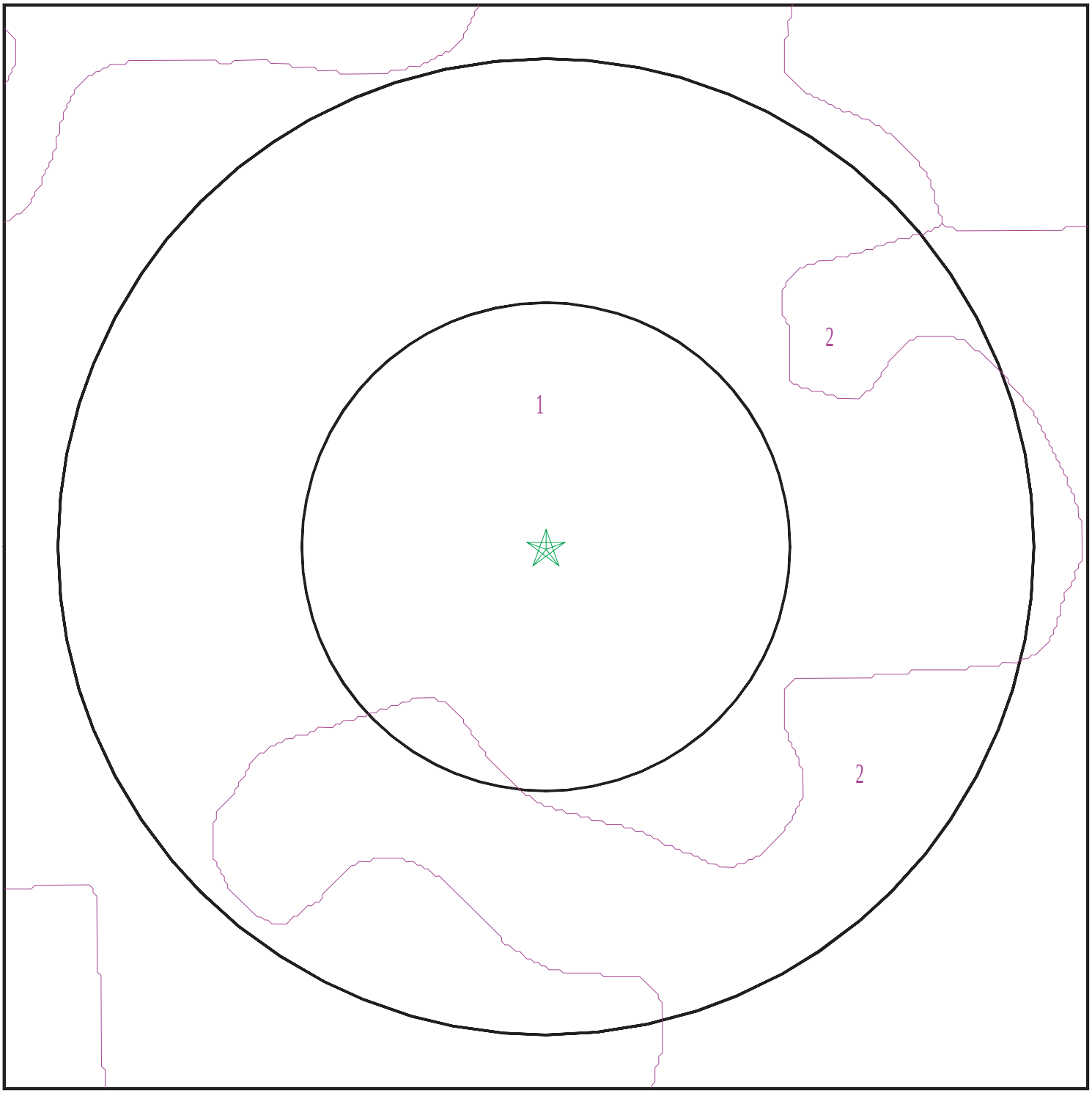
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6838431.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Raney 4790 Norwood Ave Phase I ESA	CLIENT:	Geocon Consultants, Inc.
ADDRESS:	4790 Norwood Avenue Sacramento CA 95838	CONTACT:	Matthew Tidwell
		INQUIRY #:	6838431.2s
LAT/LONG:	38.653986 / 121.456425	DATE:	January 28, 2022 6:17 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
2	12 inches	29 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
3	29 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	35 inches	59 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1
5	59 inches	66 inches	stratified sandy loam to loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: MADERA

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	14 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	29 inches	59 inches	indurated	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B12	USGS40000189675	1/4 - 1/2 Mile South
D21	USGS40000189674	1/2 - 1 Mile SE
G34	USGS40000189696	1/2 - 1 Mile WSW
H36	USGS40000189698	1/2 - 1 Mile ESE
H37	USGS40000189699	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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
A1	CADDW0000006689	1/4 - 1/2 Mile East
A2	18575	1/4 - 1/2 Mile East
A3	CAEDF0000076947	1/4 - 1/2 Mile East
A4	CAEDF0000115439	1/4 - 1/2 Mile East
A5	CAEDF0000116884	1/4 - 1/2 Mile East
A6	CAEDF0000096211	1/4 - 1/2 Mile East
A7	CAEDF0000039018	1/4 - 1/2 Mile East
A8	8987	1/4 - 1/2 Mile East
A9	CAEDF0000089401	1/4 - 1/2 Mile East
B10	CADDW0000012944	1/4 - 1/2 Mile SSW
B11	8988	1/4 - 1/2 Mile South
A13	CALLNL000000912	1/4 - 1/2 Mile East
A14	CAEDF0000130242	1/4 - 1/2 Mile East
B15	CADWR9000039944	1/4 - 1/2 Mile South
C16	CADWR9000039978	1/2 - 1 Mile East
C17	CADDW0000006346	1/2 - 1 Mile East
18	CADWR9000039990	1/2 - 1 Mile WNW
D19	CADWR9000039947	1/2 - 1 Mile SE
E20	18576	1/2 - 1 Mile WNW
E22	CADDW0000001734	1/2 - 1 Mile WNW
E23	CAUSGS000001401	1/2 - 1 Mile WNW
E24	CAUSGSN00013016	1/2 - 1 Mile WNW
E25	CAUSGS000001030	1/2 - 1 Mile WNW
E26	CAUSGS000002767	1/2 - 1 Mile WNW
E27	CAUSGS000000870	1/2 - 1 Mile WNW
E28	CAUSGS000001985	1/2 - 1 Mile WNW
E29	CALLNL000000130	1/2 - 1 Mile WNW
F30	CALLNL000000468	1/2 - 1 Mile WSW
F31	CADDW0000022887	1/2 - 1 Mile WSW
G32	8986	1/2 - 1 Mile WSW
G33	CAUSGSN00010307	1/2 - 1 Mile WSW
35	CADWR9000039945	1/2 - 1 Mile SW
H38	CAUSGSN00001528	1/2 - 1 Mile ESE
39	CADWR0000036699	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 6838431.2s

County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

SITE NAME:	Raney 4790 Norwood Ave Phase I ESA	CLIENT:	Geocon Consultants, Inc.
ADDRESS:	4790 Norwood Avenue Sacramento CA 95838	CONTACT:	Matthew Tidwell
		INQUIRY #:	6838431.2s
LAT/LONG:	38.653986 / 121.456425	DATE:	January 28, 2022 6:17 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADDW0000006689**

Well ID:	3410020-056	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 153A	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410020-056&store_num=		
GeoTracker Data:	Not Reported		

A2 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**18575**

Seq:	18575	Prim sta c:	3410020-056
Frds no:	3410020056	County:	34
District:	09	User id:	TEN
System no:	3410020	Water type:	G
Source nam:	WELL 153A	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	383918.0	Longitude:	1212650.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3410020	System nam:	Sacramento, City Of
Hqname:	SACRAMENTO CITY-DIV WTR & SWR	Address:	1391 35th Avenue
City:	Sacramento	State:	Ca
Zip:	95822	Zip ext:	Not Reported
Pop serv:	374600	Connection:	120339
Area serve:	SACRAMENTO MAIN		

Sample date:	10-JUL-17	Finding:	6.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	09-MAY-17	Finding:	251.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	09-MAY-17	Finding:	7.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	09-MAY-17	Finding:	11.4
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	09-MAY-17	Finding:	1.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	09-MAY-17	Finding:	16.
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	09-MAY-17	Finding:	9.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	29.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	310.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	97.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	118.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-MAY-17	Finding:	92.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	34.9
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	6.2
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-MAY-17	Finding:	3.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-APR-17	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	10-APR-17	Finding:	7.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-JAN-17	Finding:	7.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	09-JAN-17	Finding:	7.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	17-OCT-16	Finding:	7.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-OCT-16	Finding:	7.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	11-OCT-16	Finding:	1.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-OCT-16	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	26-JUL-16	Finding:	1.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUL-16	Finding:	6.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	26-JUL-16	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUL-16	Finding:	13.7
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-JUL-16	Finding:	24.7
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-JUL-16	Finding:	7.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-JUL-16	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	26-JUL-16	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-JUL-15	Finding:	6.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-JUL-15	Finding:	8.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	07-APR-15	Finding:	0.26
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

Dlr:	0.1		
Sample date:	06-JAN-15	Finding:	0.24
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	16-DEC-14	Finding:	6.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-OCT-14	Finding:	8.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-OCT-14	Finding:	3.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-OCT-14	Finding:	0.13
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	790.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-14	Finding:	9.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	3.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-SEP-14	Finding:	239.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	0.21
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	6.3
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-SEP-14	Finding:	34.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	28.9
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	8.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	08-SEP-14	Finding:	14.8
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	86.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	90.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	90.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	7.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	305.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	11.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	16.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	110.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	94.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	3.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-JUL-14	Finding:	6.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-APR-14	Finding:	5.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	05-MAR-14	Finding:	4.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

Dlr:	0.1		
Sample date:	15-OCT-13	Finding:	3.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-12	Finding:	1.62
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	1.25
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	1.86
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	0.4
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	3.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-12	Finding:	0.14
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

A3
East
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000076947**

Well ID:	T0606700534-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700534&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700534&assigned_name=MW-7		

A4
East
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000115439**

Well ID:	T0606700534-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700534&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700534&assigned_name=MW-5		

Map ID Direction Distance Elevation	Database	EDR ID Number
A5 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000116884**

Well ID:	T0606700534-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700534&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700534&assigned_name=MW-1		

A6 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000096211**

Well ID:	T0606700534-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700534&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700534&assigned_name=MW-4		

A7 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000039018**

Well ID:	T0606700534-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700534&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700534&assigned_name=MW-2		

A8 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**8987**

Seq:	8987	Prim sta c:	09N/05E-08A02 M
Frds no:	3410020049	County:	34
District:	09	User id:	TEN
System no:	3410020	Water type:	G
Source nam:	WELL 153 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	383918.0	Longitude:	1212648.0
Precision:	3	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported

Comment 7:	Not Reported		
System no:	3410020	System nam:	Sacramento, City Of
Hqname:	SACRAMENTO CITY-DIV WTR & SWR	Address:	1391 35th Avenue
City:	Sacramento	State:	Ca
Zip:	95822	Zip ext:	Not Reported
Pop serv:	374600	Connection:	120339
Area serve:	SACRAMENTO MAIN		

A9
East
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000089401**

Well ID:	T0606700534-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700534&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700534&assigned_name=MW-3		

B10
SSW
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000012944**

Well ID:	3410020-038	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 134	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410020-038&store_num=		
GeoTracker Data:	Not Reported		

B11
South
1/4 - 1/2 Mile
Lower

CA WELLS **8988**

Seq:	8988	Prim sta c:	09N/05E-08L01 M
Frds no:	3410020038	County:	34
District:	09	User id:	TEN
System no:	3410020	Water type:	G
Source nam:	WELL 134	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	383850.0	Longitude:	1212725.0
Precision:	4	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3410020	System nam:	Sacramento, City Of
Hqname:	SACRAMENTO CITY-DIV WTR & SWR	Address:	1391 35th Avenue
City:	Sacramento	State:	Ca
Zip:	95822	Zip ext:	Not Reported
Pop serv:	374600	Connection:	120339
Area serve:	SACRAMENTO MAIN		

Sample date:	26-FEB-18	Finding:	1.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-FEB-18	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	10-JUL-17	Finding:	7.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	08-MAY-17	Finding:	30.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	1.3
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAY-17	Finding:	11.4
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	8.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-MAY-17	Finding:	250.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	2.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-MAY-17	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-MAY-17	Finding:	8.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-MAY-17	Finding:	25.8
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	107.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	1.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAY-17	Finding:	139.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	114.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	08-MAY-17	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	320.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	19.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	10-APR-17	Finding:	8.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-JAN-17	Finding:	8.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	11-OCT-16	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-OCT-16	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-OCT-16	Finding:	8.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-JUL-16	Finding:	7.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	06-APR-16	Finding:	8.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	05-JAN-16	Finding:	7.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	15-OCT-15	Finding:	7.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	15-OCT-15	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	15-OCT-15	Finding:	0.14
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	15-OCT-15	Finding:	1450.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-JUL-15	Finding:	7.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	16-DEC-14	Finding:	5.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-OCT-14	Finding:	0.14
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	7.71
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	170.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	29.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	450.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	7.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	162.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	162.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	169.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	08-SEP-14	Finding:	26.2
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	20.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	26.6
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	29.9
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	14.5
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-SEP-14	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-SEP-14	Finding:	106.6
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	08-SEP-14	Finding:	322.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	9.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	3300.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-APR-14	Finding:	7.51
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-APR-14	Finding:	3920.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-APR-14	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	17-APR-14	Finding:	33.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	25.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	27.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	1.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	3.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-APR-14	Finding:	120.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	17-APR-14	Finding:	1.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	17-APR-14	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-APR-14	Finding:	2.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	0.954
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	1.9
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	0.506
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	0.168
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	0.363
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	17-APR-14	Finding:	1.
Chemical:	COLOR	Report units:	UNITS

Dlr:	0.		
Sample date:	17-APR-14	Finding:	490.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	17-APR-14	Finding:	7.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-APR-14	Finding:	31.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	17-APR-14	Finding:	16.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	17-APR-14	Finding:	0.16
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	17-APR-14	Finding:	0.18
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	17-APR-14	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

B12
South **FED USGS** **USGS40000189675**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N005E08L001M	Type:	Well
Description:	Not Reported	HUC:	18020111
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19620107	Well Depth:	513
Well Depth Units:	ft	Well Hole Depth:	513
Well Hole Depth Units:	ft		

A13
East **CA WELLS** **CALLNL000000912**
1/4 - 1/2 Mile
Lower

Well ID:	101278	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	3410020-056	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Tritium (Hydrogen 3)	Results:	1.72
Units:	pCi/L	Date:	12/17/2002
Chemical:	Helium-3/Helium-4	Results:	.00000047697
Units:	atom ratio	Date:	06/03/2003
Chemical:	Krypton	Results:	.0000000910107
Units:	cm3STP/g	Date:	06/03/2003
Chemical:	Helium-4	Results:	.0000012821
Units:	cm3STP/g	Date:	06/03/2003
Chemical:	Argon	Results:	.000416535
Units:	cm3STP/g	Date:	06/03/2003
Chemical:	Neon	Results:	.000000276436
Units:	cm3STP/g	Date:	06/03/2003
Chemical:	Xenon	Results:	.0000000113374
Units:	cm3STP/g	Date:	06/03/2003

A14
East
1/4 - 1/2 Mile
Lower

CA WELLS **CAEDF0000130242**

Well ID:	T0606700534-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700534&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700534&assigned_name=MW-6		

B15
South
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000039944**

State Well #:	09N05E08L001M	Station ID:	52233
Well Name:	SAC-134	Basin Name:	North American
Well Use:	Other	Well Type:	Single Well
Well Depth:	380	Well Completion Rpt #:	54666

Map ID Direction Distance Elevation	Database	EDR ID Number
C16 **East** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000039978**

State Well #:	Not Reported	Station ID:	52238
Well Name:	SAC-153A	Basin Name:	North American
Well Use:	Other	Well Type:	Single Well
Well Depth:	626	Well Completion Rpt #:	351635

C17 **East** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADDW0000006346**

Well ID:	3410020-049	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 153 - DESTROYED	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410020-049&store_num=		
GeoTracker Data:	Not Reported		

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18 **WNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000039990**

State Well #:	Not Reported	Station ID:	52242
Well Name:	SAC-164	Basin Name:	North American
Well Use:	Other	Well Type:	Single Well
Well Depth:	635	Well Completion Rpt #:	383797

D19 **SE** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000039947**

State Well #:	09N05E08J002M	Station ID:	30228
Well Name:	DWR_SGA_001	Basin Name:	North American
Well Use:	Residential	Well Type:	Single Well
Well Depth:	95	Well Completion Rpt #:	4566

E20 **WNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**18576**

Seq:	18576	Prim sta c:	3410020-057
Frds no:	3410020057	County:	34
District:	09	User id:	TEN
System no:	3410020	Water type:	G
Source nam:	WELL 164	Station ty:	WELL/AMBNT

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latitude:	383928.0	Longitude:	1212755.0
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:	3410020	System nam:	Sacramento, City Of
Hqname:	SACRAMENTO CITY-DIV WTR & SWR	Address:	1391 35th Avenue
City:	Sacramento	State:	Ca
Zip:	95822	Zip ext:	Not Reported
Pop serv:	374600	Connection:	120339
Area serve:	SACRAMENTO MAIN		

Sample date:	12-MAR-18	Finding:	226.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	27-FEB-18	Finding:	300.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	27-FEB-18	Finding:	91.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	27-FEB-18	Finding:	9.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	27-FEB-18	Finding:	12.2
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	27-FEB-18	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	27-FEB-18	Finding:	6.4
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	27-FEB-18	Finding:	26.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	27-FEB-18	Finding:	19.6
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	27-FEB-18	Finding:	8.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	27-FEB-18	Finding:	125.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	27-FEB-18	Finding:	103.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	27-FEB-18	Finding:	8.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	27-FEB-18	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	27-FEB-18	Finding:	9.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-JAN-18	Finding:	6.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-JAN-18	Finding:	7.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-OCT-17	Finding:	8.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-JUL-17	Finding:	7.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-JUL-17	Finding:	5.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	26-MAY-17	Finding:	0.156
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-MAY-17	Finding:	0.43
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-MAY-17	Finding:	0.8
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-MAY-17	Finding:	0.25
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-MAY-17	Finding:	2.02
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	26-MAY-17	Finding:	0.63
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	26-MAY-17	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	19-APR-17	Finding:	1.
Chemical:	COLOR	Report units:	UNITS

Dlr:	0.		
Sample date:	19-APR-17	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-APR-17	Finding:	7.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-APR-17	Finding:	6.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	15-FEB-17	Finding:	0.54
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	2.99
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-FEB-17	Finding:	7.e-002
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	0.78
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	0.156
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	0.747
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-FEB-17	Finding:	1.15
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-JAN-17	Finding:	5.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-JAN-17	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	09-JAN-17	Finding:	6.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-JAN-17	Finding:	6.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	07-NOV-16	Finding:	0.508
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	07-NOV-16	Finding:	0.308
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-NOV-16	Finding:	6.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-NOV-16	Finding:	0.11
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-NOV-16	Finding:	0.747
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-OCT-16	Finding:	6.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	17-OCT-16	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-OCT-16	Finding:	6.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	17-OCT-16	Finding:	6.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-OCT-16	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-OCT-16	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	11-OCT-16	Finding:	6.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	03-OCT-16	Finding:	6.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	28-SEP-16	Finding:	5.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	19-SEP-16	Finding:	6.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	12-SEP-16	Finding:	6.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-SEP-16	Finding:	6.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L

Dlr:	1.		
Sample date:	30-AUG-16	Finding:	6.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	22-AUG-16	Finding:	5.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	15-AUG-16	Finding:	6.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	08-AUG-16	Finding:	5.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	01-AUG-16	Finding:	5.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	15-JUL-16	Finding:	5.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-JUL-16	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-JUL-16	Finding:	4.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	07-JUL-16	Finding:	11.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-JUL-16	Finding:	4.7
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	12-MAY-16	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	100.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	19.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	13.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	0.191
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-MAY-16	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	0.747
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	1.6
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-MAY-16	Finding:	2.e-002
Chemical:	RADIUM 226	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-MAY-16	Finding:	9.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	12-MAY-16	Finding:	226.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-MAY-16	Finding:	0.17
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-MAY-16	Finding:	12.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-MAY-16	Finding:	17.8
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	1.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	20.6
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	12.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	21.2
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	12-MAY-16	Finding:	104.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	142.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	116.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	310.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	12-MAY-16	Finding:	6.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	12-MAY-16	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		

D21
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000189674**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N005E08J002M	Type:	Well
Description:	Not Reported	HUC:	18020111
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19510303	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	95
Well Hole Depth Units:	ft		

E22
WNW
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000001734**

Well ID:	3410020-057	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 164 - RAW	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410020-057&store_num=		
GeoTracker Data:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
E23 **WNW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAUSGS000001401**

E24
WNW
1/2 - 1 Mile
Higher
CA WELLS **CAUSGSN00013016**

Well ID:	USGS-383900121270001	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-383900121270001	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-383900121270001&store_num=		
GeoTracker Data:	Not Reported		

E25
WNW
1/2 - 1 Mile
Higher
CA WELLS **CAUSGS000001030**

E26
WNW
1/2 - 1 Mile
Higher
CA WELLS **CAUSGS000002767**

E27
WNW
1/2 - 1 Mile
Higher
CA WELLS **CAUSGS000000870**

E28
WNW
1/2 - 1 Mile
Higher
CA WELLS **CAUSGS000001985**

E29
WNW
1/2 - 1 Mile
Higher
CA WELLS **CALLNL000000130**

Well ID:	103046	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	WELL 164-Sacramento	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Neon	Results:	.000000211268
Units:	cm3STP/g	Date:	07/07/2005

Chemical:	Xenon	Results:	.0000000106241
Units:	cm3STP/g	Date:	07/07/2005
Chemical:	Argon	Results:	.000344985
Units:	cm3STP/g	Date:	07/07/2005
Chemical:	Helium-3/Helium-4	Results:	.000000548519
Units:	atom ratio	Date:	07/07/2005
Chemical:	Helium-4	Results:	.00000036005
Units:	cm3STP/g	Date:	07/07/2005
Chemical:	Krypton	Results:	.0000000764362
Units:	cm3STP/g	Date:	07/07/2005
Chemical:	Tritium (Hydrogen 3)	Results:	9.19
Units:	pCi/L	Date:	09/12/2005

F30
WSW
1/2 - 1 Mile
Lower

CA WELLS **CALLNL000000468**

Well ID:	101277	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	09N/05E-07H01 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		
Chemical:	Helium-3/Helium-4	Results:	.000000495371
Units:	atom ratio	Date:	04/14/2003
Chemical:	Helium-4	Results:	.000000604572
Units:	cm3STP/g	Date:	04/14/2003
Chemical:	Xenon	Results:	.0000000106621
Units:	cm3STP/g	Date:	04/14/2003
Chemical:	Krypton	Results:	.0000000797652
Units:	cm3STP/g	Date:	04/14/2003
Chemical:	Neon	Results:	.000000211815
Units:	cm3STP/g	Date:	04/14/2003
Chemical:	Tritium (Hydrogen 3)	Results:	2.87
Units:	pCi/L	Date:	12/17/2002
Chemical:	Argon	Results:	.000365126

Units:	cm3STP/g	Date:	04/14/2003

F31
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000022887**

Well ID:	3410020-037	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 133	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410020-037&store_num=		
GeoTracker Data:	Not Reported		

G32
WSW
1/2 - 1 Mile
Lower

CA WELLS **8986**

Seq:	8986	Prim sta c:	09N/05E-07H01 M
Frds no:	3410020037	County:	34
District:	09	User id:	TEN
System no:	3410020	Water type:	G
Source nam:	WELL 133	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	383905.0	Longitude:	1212808.0
Precision:	3	Status:	AR
Comment 1:	AT GRACE AND BOLLENBECKER	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3410020	System nam:	Sacramento, City Of
Hqname:	SACRAMENTO CITY-DIV WTR & SWR	Address:	1391 35th Avenue
City:	Sacramento	State:	Ca
Zip:	95822	Zip ext:	Not Reported
Pop serv:	374600	Connection:	120339
Area serve:	SACRAMENTO MAIN		

Sample date:	26-FEB-18	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	26-FEB-18	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	10-JUL-17	Finding:	7.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	08-MAY-17	Finding:	121.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	08-MAY-17	Finding:	1.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	08-MAY-17	Finding:	11.5
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	7.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-MAY-17	Finding:	244.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	21.8
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	08-MAY-17	Finding:	3.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-MAY-17	Finding:	8.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-MAY-17	Finding:	20.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	26.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	330.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	148.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	1.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-MAY-17	Finding:	117.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-17	Finding:	24.2
Chemical:	CHLORIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	10-APR-17	Finding:	7.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-JAN-17	Finding:	8.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	11-OCT-16	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-OCT-16	Finding:	1.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-OCT-16	Finding:	7.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-JUL-16	Finding:	7.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	06-JUN-16	Finding:	7.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	06-APR-16	Finding:	7.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	04-FEB-16	Finding:	7.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	04-FEB-16	Finding:	1.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-FEB-16	Finding:	0.18
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	04-FEB-16	Finding:	1.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-JUL-15	Finding:	8.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	16-DEC-14	Finding:	8.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-OCT-14	Finding:	5.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	14-OCT-14	Finding:	0.15
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	122.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	1220.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-SEP-14	Finding:	8.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	5.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-SEP-14	Finding:	247.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-SEP-14	Finding:	0.22
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-SEP-14	Finding:	8.7
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-SEP-14	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	19.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	320.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

Dlr:	0.		
Sample date:	08-SEP-14	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	122.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	112.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	17.3
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	12.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	22.9
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	1.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-SEP-14	Finding:	21.7
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	15-OCT-13	Finding:	4.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-12	Finding:	1.63
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	0.971
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	0.495
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	1.24
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-OCT-12	Finding:	5.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-12	Finding:	0.13
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Map ID Direction Distance Elevation	Database	EDR ID Number
G33 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAUSGSN00010307**

Well ID:	USGS-383904121280801	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-383904121280801	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-383904121280801&store_num=		
GeoTracker Data:	Not Reported		

G34 **WSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000189696**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N005E07H001M	Type:	Well
Description:	Not Reported	HUC:	18020111
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Merten Formation (Pliocene-Miocene)		
Aquifer Type:	Not Reported	Construction Date:	19620719
Well Depth:	514	Well Depth Units:	ft
Well Hole Depth:	514	Well Hole Depth Units:	ft

---

35 **SW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000039945**

State Well #:	Not Reported	Station ID:	52232
Well Name:	SAC-133	Basin Name:	North American
Well Use:	Other	Well Type:	Single Well
Well Depth:	514	Well Completion Rpt #:	77963

H36 **ESE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000189698**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N005E09F001M	Type:	Well
Description:	Not Reported	HUC:	18020111
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19600810	Well Depth:	159
Well Depth Units:	ft	Well Hole Depth:	160

Well Hole Depth Units: ft

H37
ESE **FED USGS** **USGS40000189699**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	009N005E09F002M	Type:	Well
Description:	Not Reported	HUC:	18020111
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Central Valley aquifer system		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730101	Well Depth:	244
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

H38
ESE **CA WELLS** **CAUSGSN00001528**
1/2 - 1 Mile
Higher

Well ID:	USGS-383905121262401	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-383905121262401	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-383905121262401&store_num=		
GeoTracker Data:	Not Reported		

39
SSW **CA WELLS** **CADWR0000036699**
1/2 - 1 Mile
Lower

Well ID:	09N05E07H001M	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	09N05E07H001M	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=09N05E07H001M&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SACRAMENTO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SACRAMENTO COUNTY, CA

Number of sites tested: 52

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.665 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.200 pCi/L	100%	0%	0%
Basement	8.350 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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 Californias 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 Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX C

Raney 4790 Norwood Ave Phase I ESA

4790 Norwood Avenue

Sacramento, CA 95838

Inquiry Number: 6838431.8

January 28, 2022

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

01/28/22

Site Name:

Raney 4790 Norwood Ave Pha
4790 Norwood Avenue
Sacramento, CA 95838
EDR Inquiry # 6838431.8

Client Name:

Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800
Rancho Cordova, CA 95742
Contact: Matthew Tidwell

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:

Year	*Scale*	*Details*	*Source*
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'	Acquisition Date: January 01, 1998	USGS/DOQQ
1993	1"=500'	Acquisition Date: May 23, 1993	USGS/DOQQ
1984	1"=500'	Flight Date: June 08, 1984	USDA
1972	1"=500'	Flight Date: June 28, 1972	USDA
1966	1"=500'	Flight Date: August 04, 1966	USGS
1964	1"=500'	Flight Date: May 19, 1964	USDA
1957	1"=500'	Flight Date: September 09, 1957	USDA
1947	1"=500'	Flight Date: July 28, 1947	USGS
1937	1"=500'	Flight Date: August 17, 1937	USDA

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INQUIRY #: 6838431.8

YEAR: 2016

= 500'

N

EDR

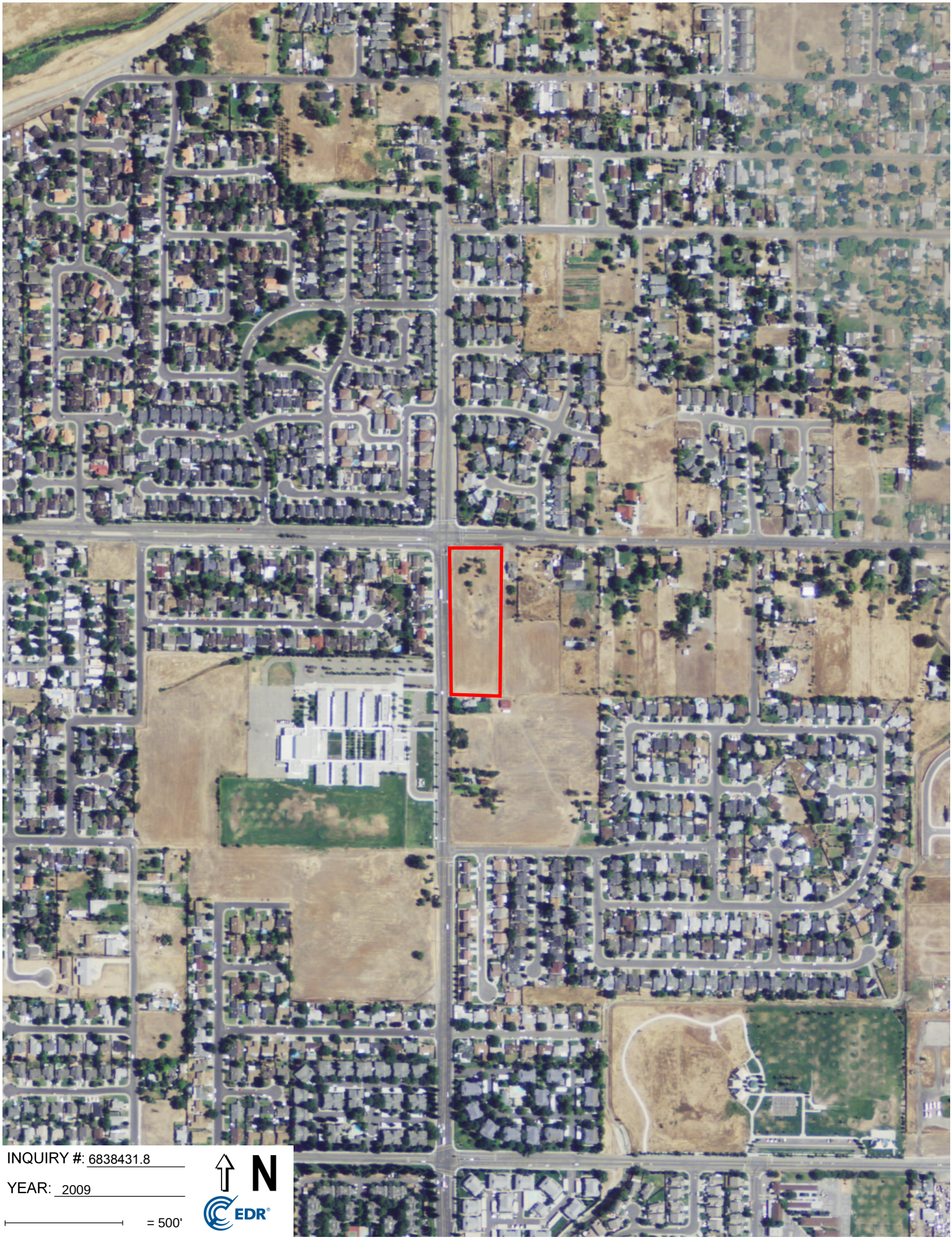
INQUIRY #: 6838431.8

YEAR: 2012

= 500'

N

EDR



INQUIRY #: 6838431.8

YEAR: 2009

= 500'

N

EDR


INQUIRY #: 6838431.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 6838431.8

YEAR: 1998

= 500'

N

EDR

INQUIRY #: 6838431.8

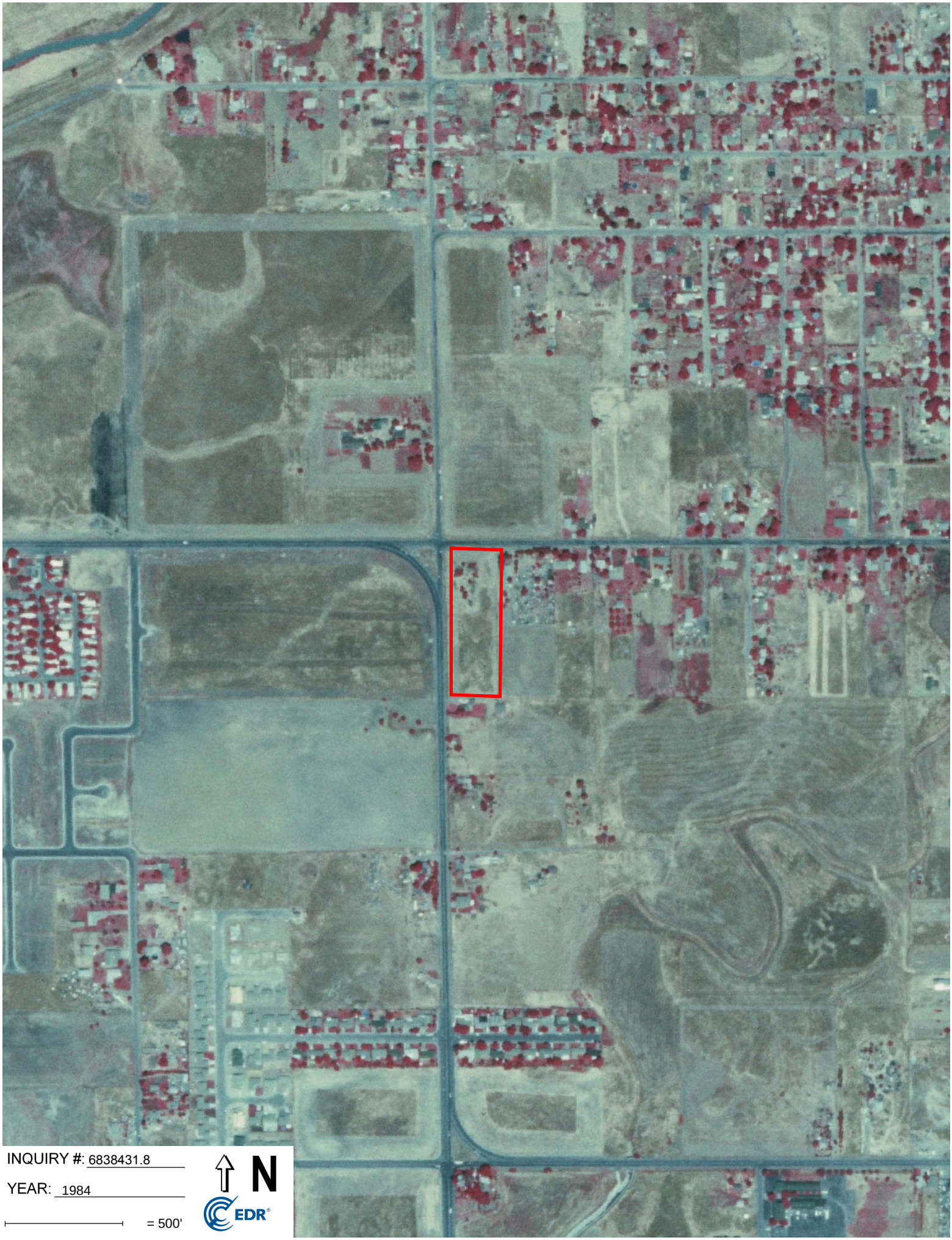
YEAR: 1993

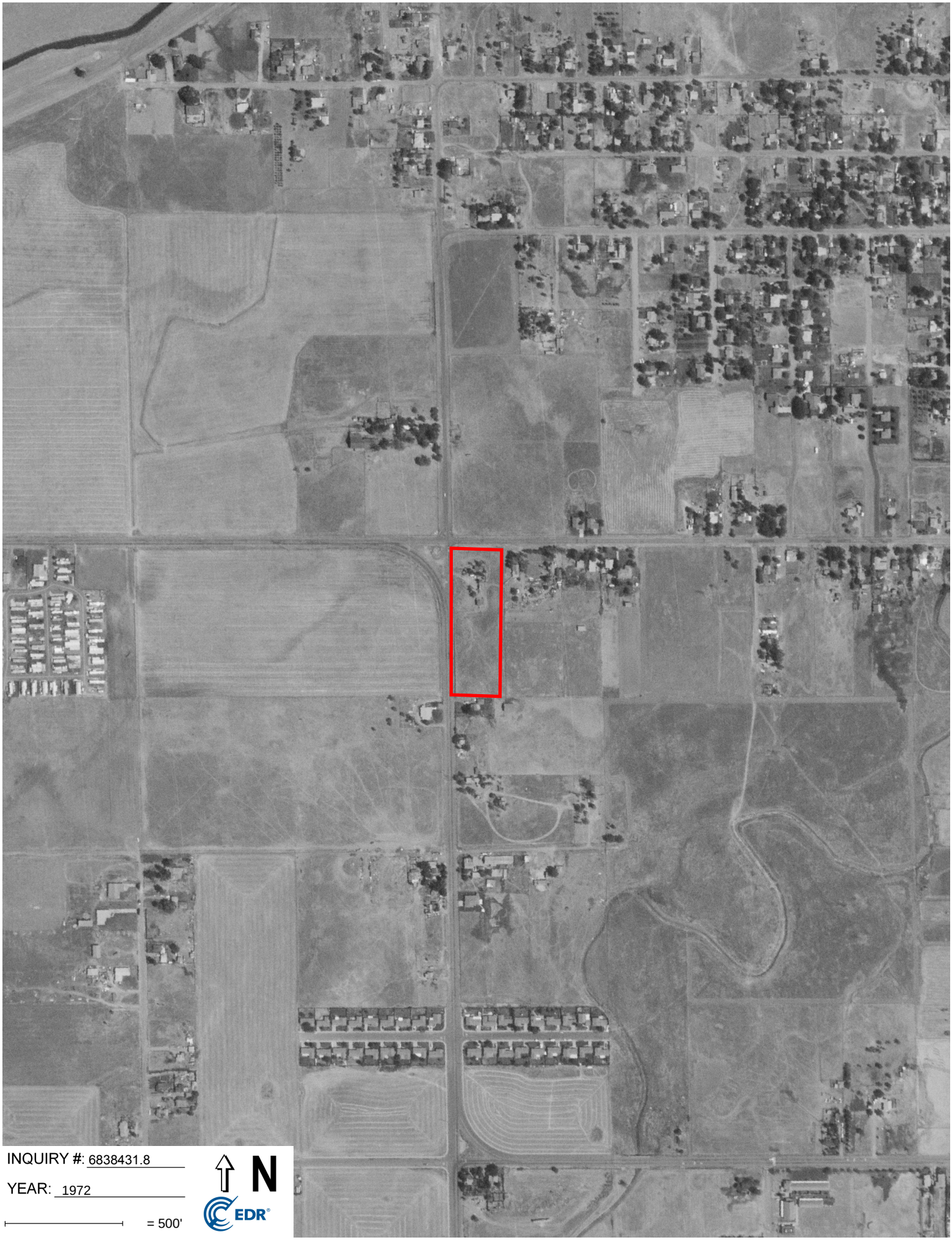
= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.


INQUIRY #: 6838431.8
YEAR: 1984
= 500'
N
EDR



INQUIRY #: 6838431.8

YEAR: 1972

= 500'

N

EDR

INQUIRY #: 6838431.8

YEAR: 1966

= 500'

N

EDR

INQUIRY #: 6838431.8

YEAR: 1964

= 500'

N

EDR

INQUIRY #: 6838431.8

YEAR: 1957

= 500'

N

EDR

INQUIRY #: 6838431.8

YEAR: 1947

= 500'

N

EDR

INQUIRY #: 6838431.8

YEAR: 1937

= 500'

N

EDR

APPENDIX D

Raney 4790 Norwood Ave Phase I ESA

4790 Norwood Avenue

Sacramento, CA 95838

Inquiry Number: 6838431.4

January 28, 2022

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

01/28/22

Site Name:	Client Name:
Raney 4790 Norwood Ave Pha	Geocon Consultants, Inc.
4790 Norwood Avenue	3160 Gold Valley Drive Suite 800
Sacramento, CA 95838	Rancho Cordova, CA 95742
EDR Inquiry # 6838431.4	Contact: Matthew Tidwell

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Geocon Consultants, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs 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:

P.O.#	S2317-07-01
Project:	4790 Norwood Ave Phase I ES

Coordinates:

Latitude:	38.653986 38° 39' 14" North
Longitude:	-121.456425 -121° 27' 23" West
UTM Zone:	Zone 10 North
UTM X Meters:	634313.02
UTM Y Meters:	4279510.40
Elevation:	39.61' above sea level

Maps Provided:

2018	1951
2015	1950
2012	1911
1992	1902
1980	1893
1975	1892
1967	1891
1954	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets

Rio Linda
2018
7.5-minute, 24000

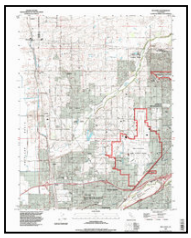
2015 Source Sheets

Rio Linda
2015
7.5-minute, 24000

2012 Source Sheets

Rio Linda
2012
7.5-minute, 24000

1992 Source Sheets



Rio Linda
1992
7.5-minute, 24000
Aerial Photo Revised 1992

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

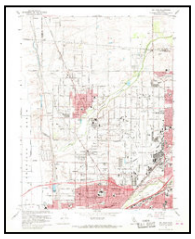
1980 Source Sheets

Rio Linda
1980
7.5-minute, 24000
Aerial Photo Revised 1978

1975 Source Sheets

Rio Linda
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1967 Source Sheets



Rio Linda
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1954 Source Sheets

Fair Oaks
1954
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1951 Source Sheets

Rio Linda
1951
7.5-minute, 24000
Aerial Photo Revised 1947

1950 Source Sheets

Rio Linda
1950
7.5-minute, 24000
Aerial Photo Revised 1947

1911 Source Sheets

Arcade
1911
7.5-minute, 31680

1902 Source Sheets

Fairoaks
1902
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1893 Source Sheets

Sacramento
1893
30-minute, 125000

1892 Source Sheets

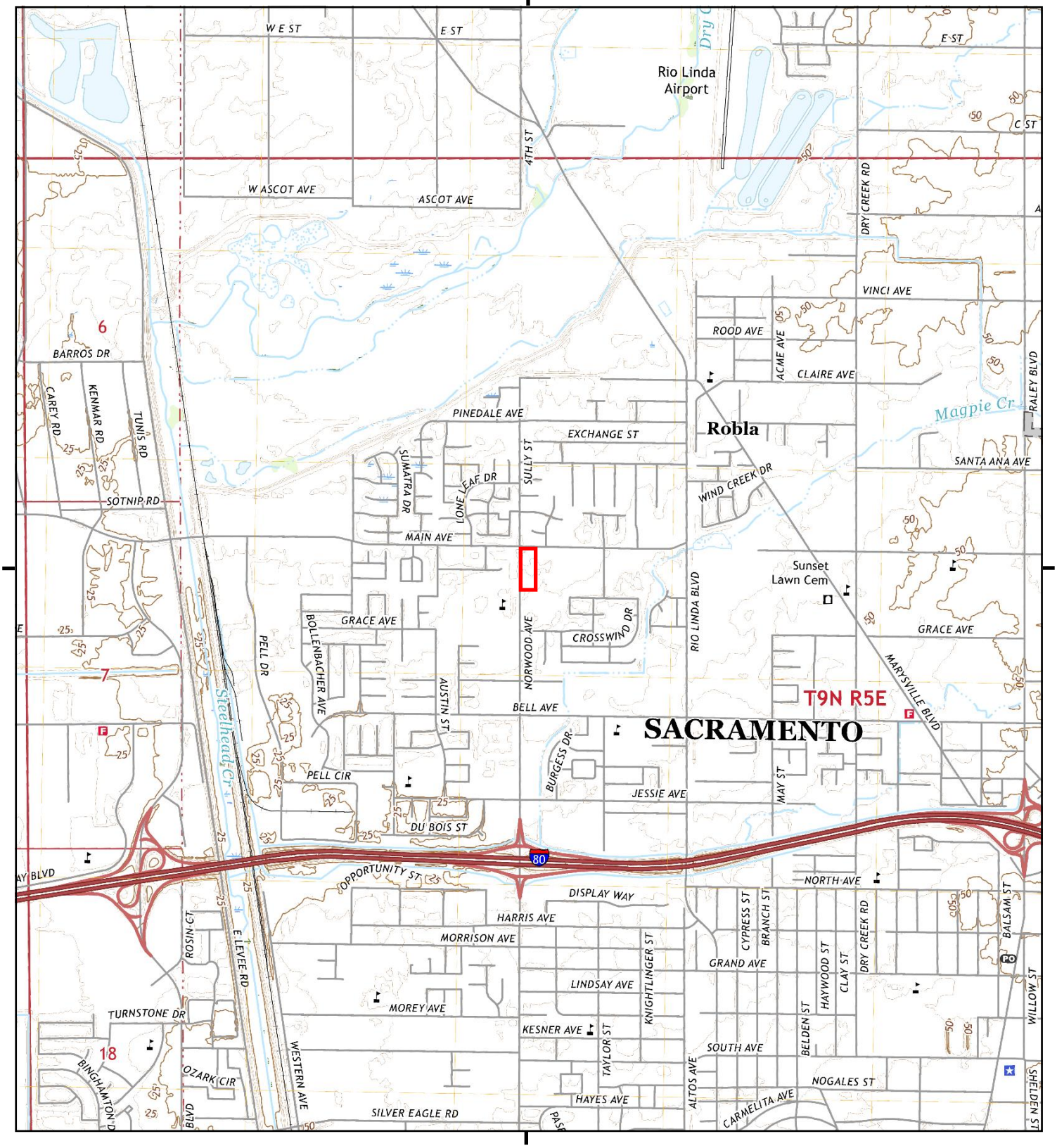
Sacramento
1892
30-minute, 125000

1891 Source Sheets

Sacramento
1891
30-minute, 125000

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

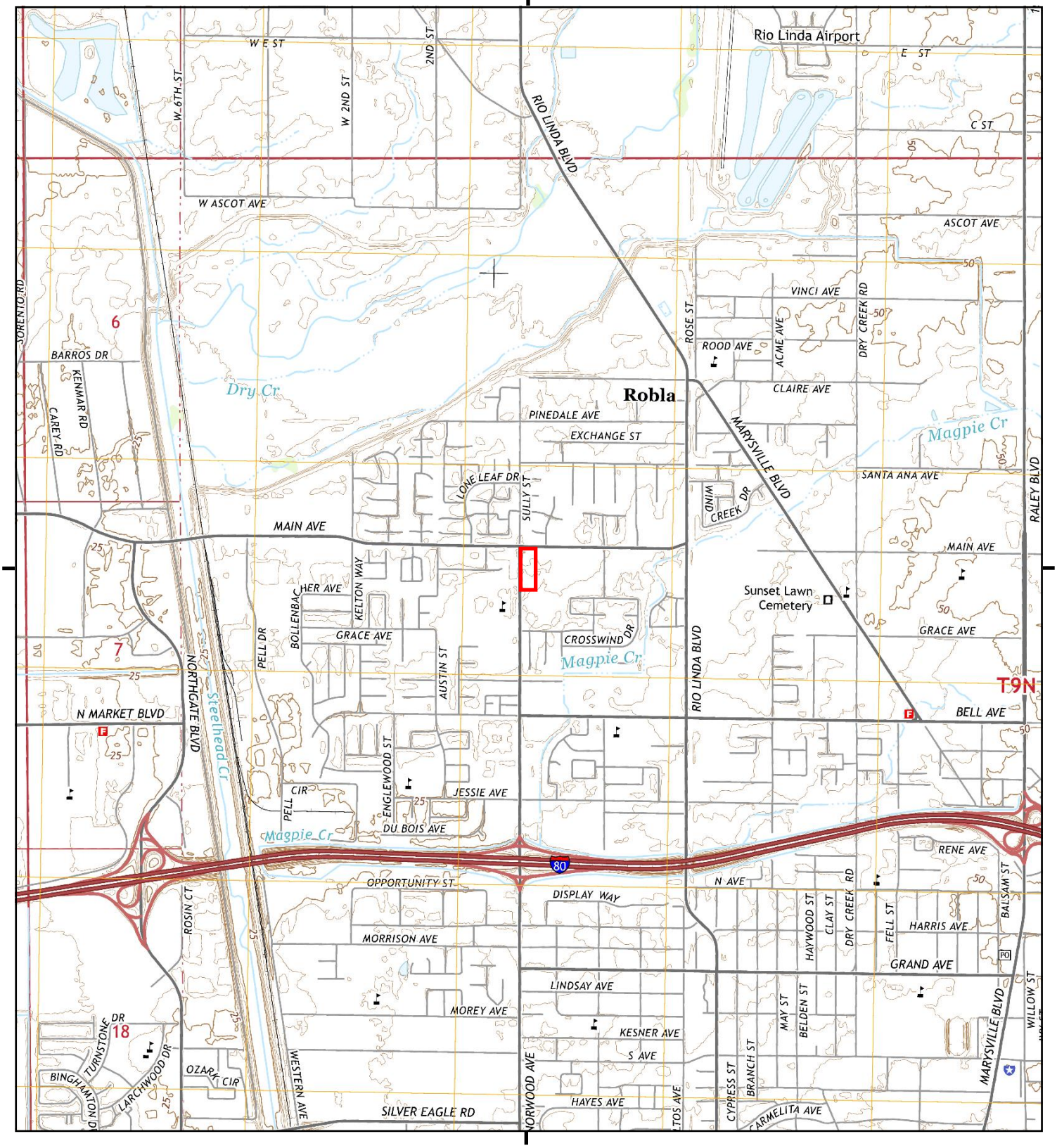
TP, Rio Linda, 2018, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

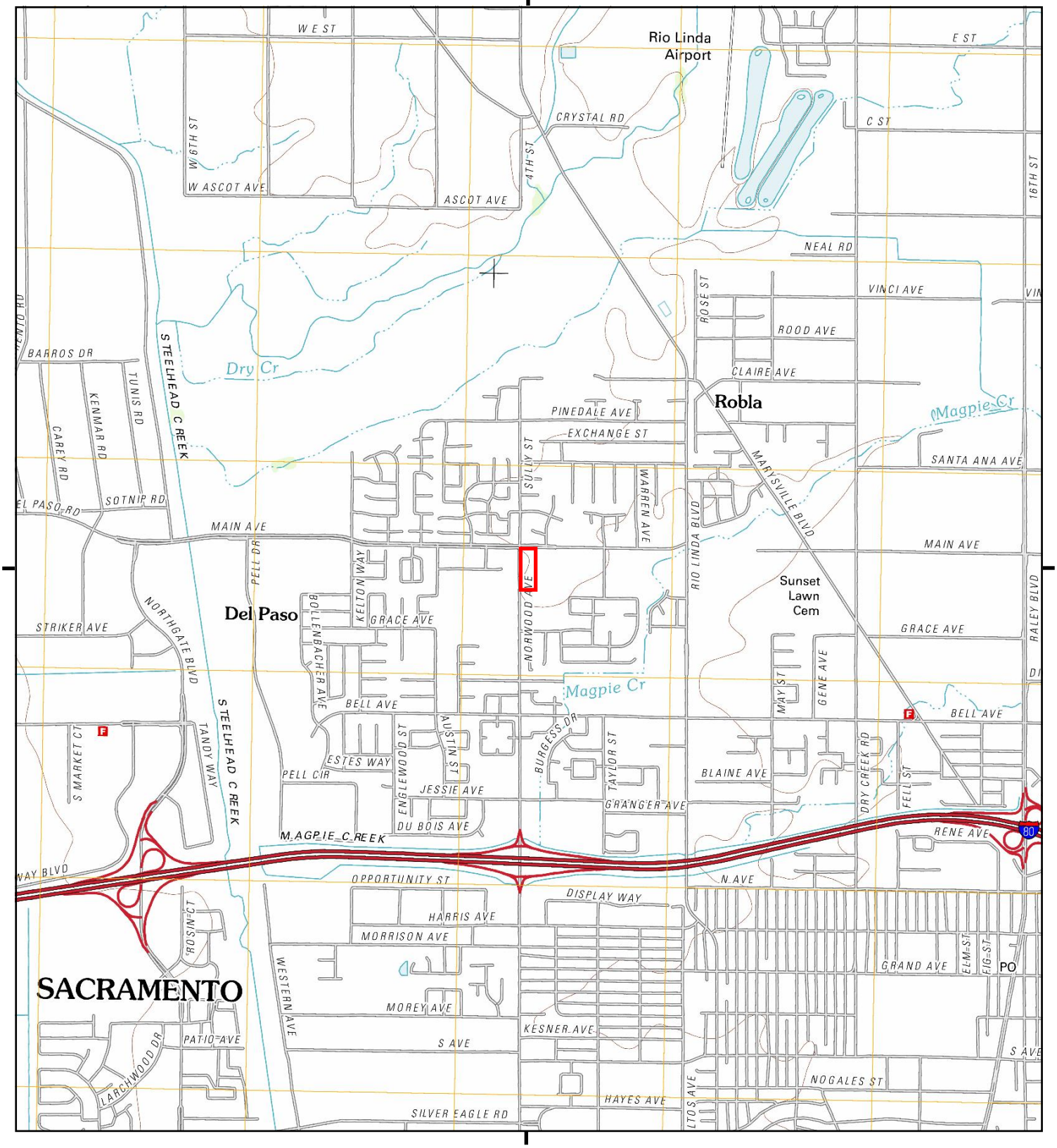
TP, Rio Linda, 2015, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

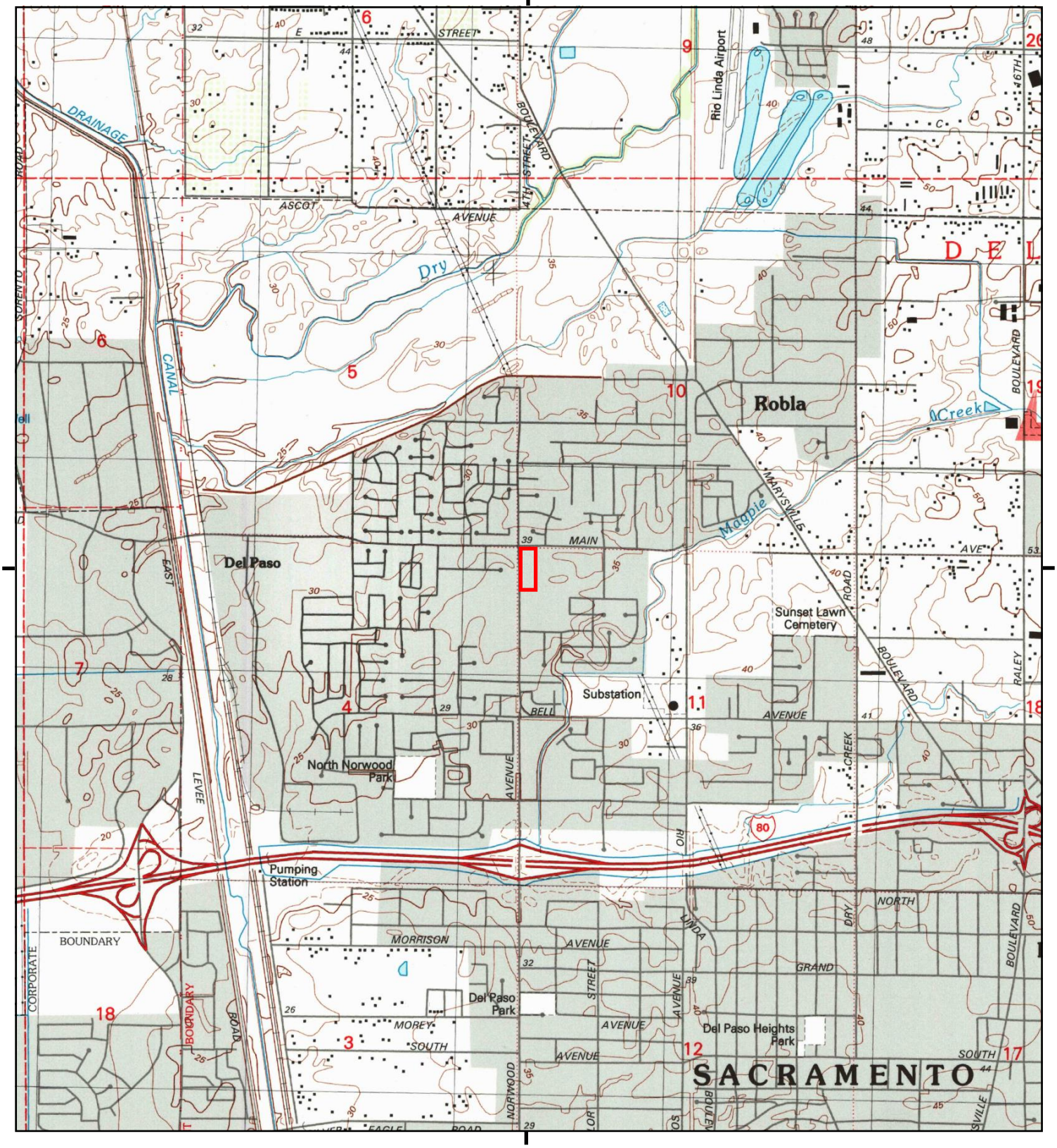
TP, Rio Linda, 2012, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1992



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

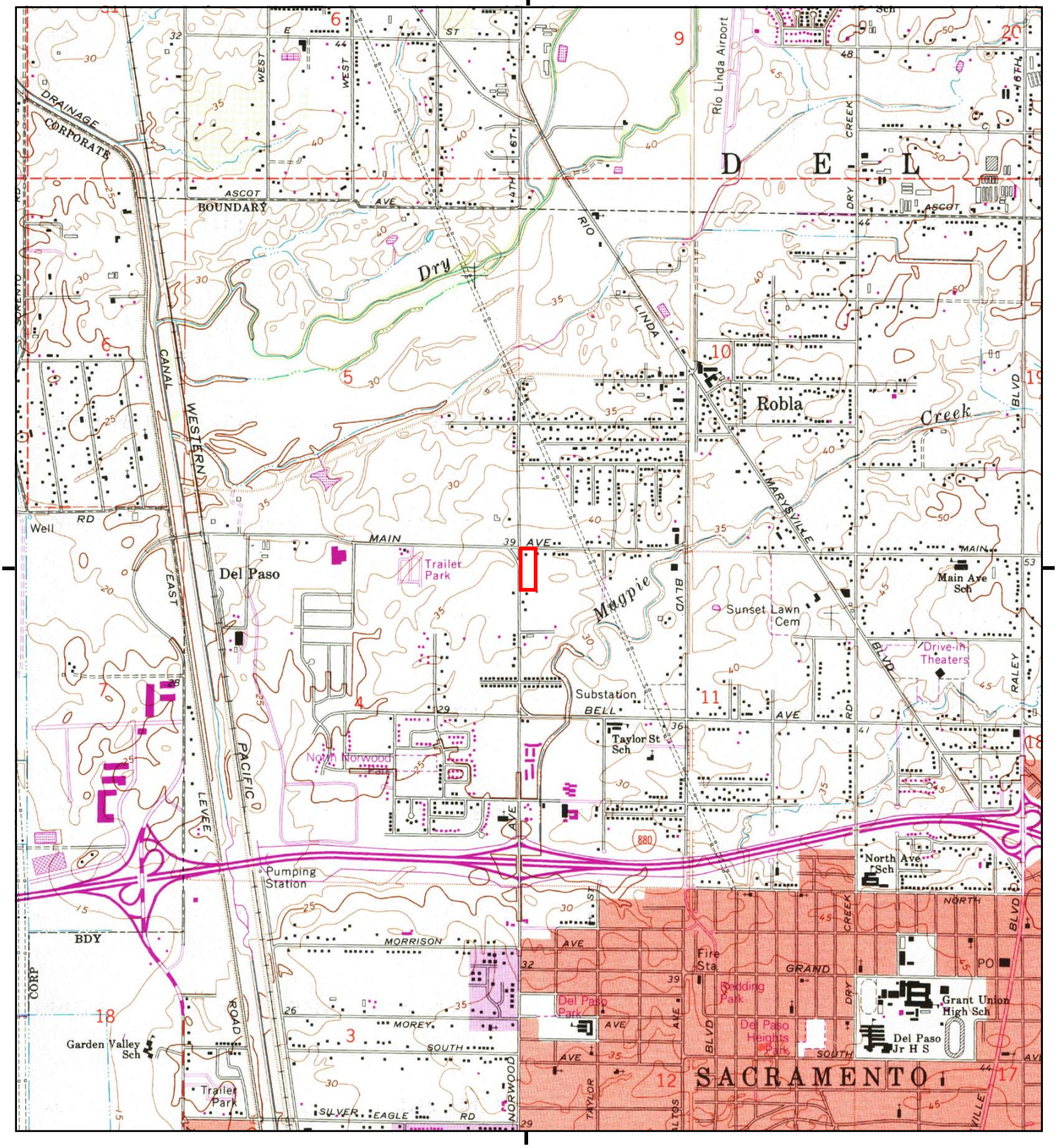
TP, Rio Linda, 1992, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1980



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Rio Linda, 1980, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1975

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

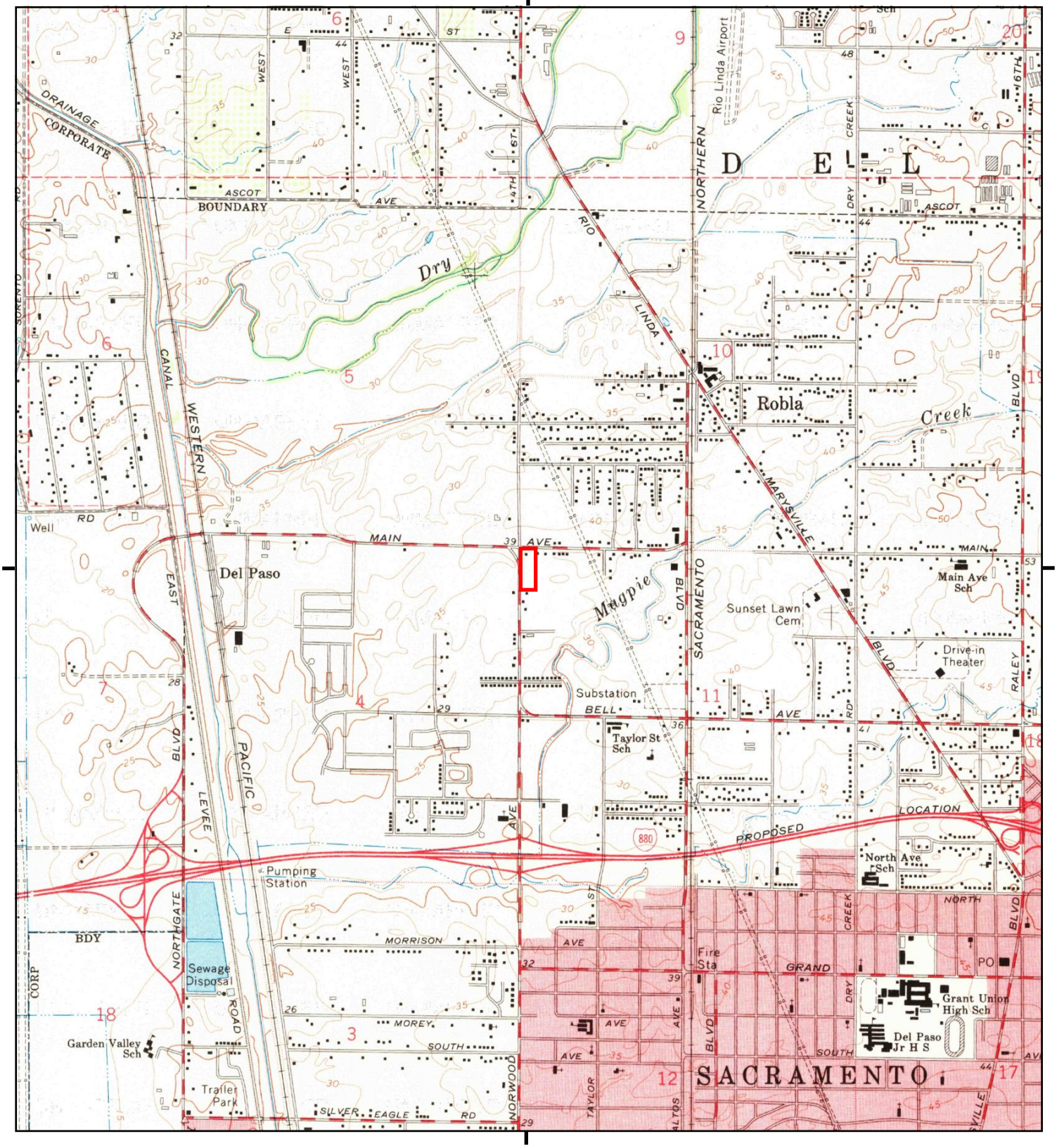
TP, Rio Linda, 1975, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1967



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

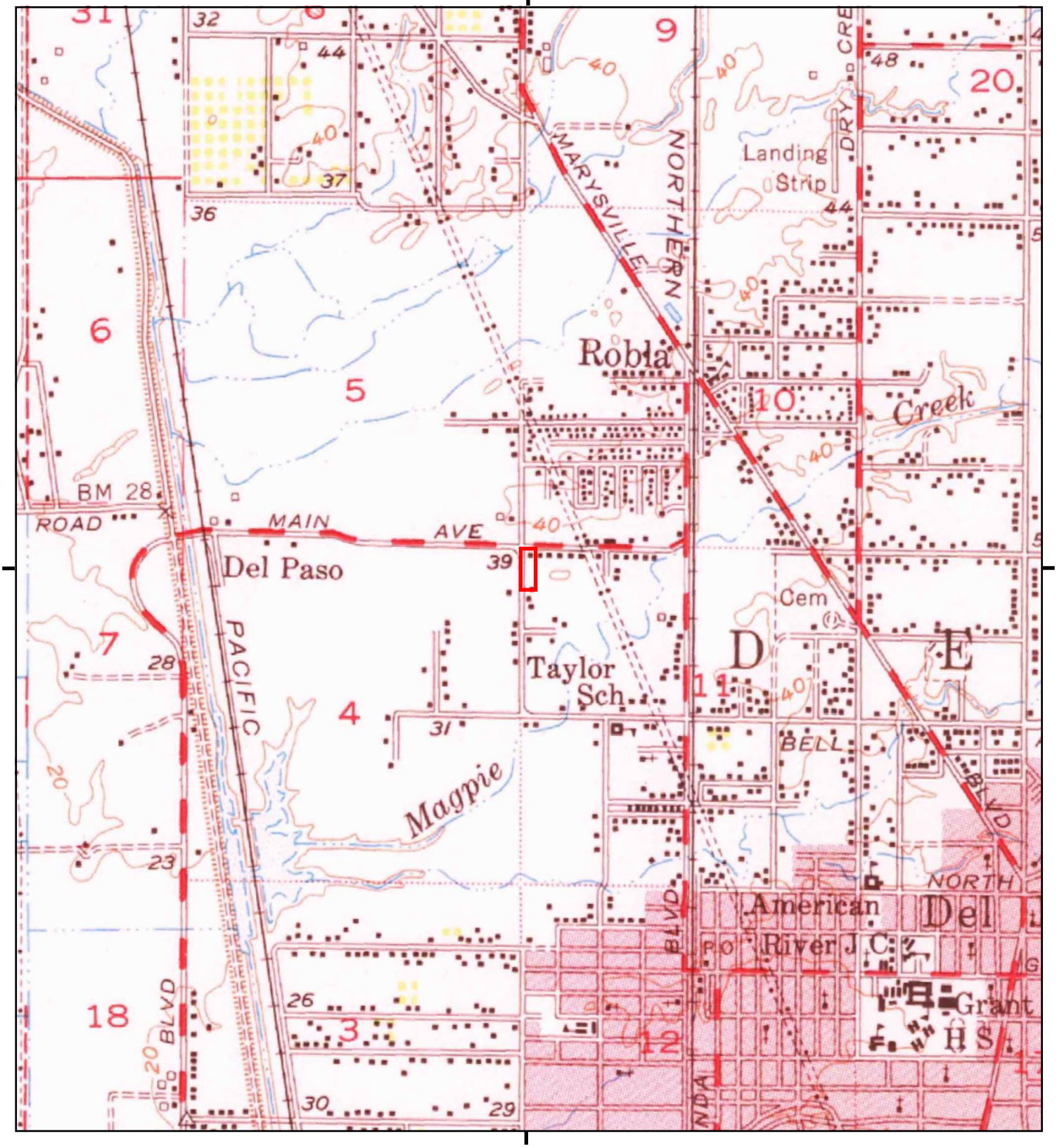
TP, Rio Linda, 1967, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

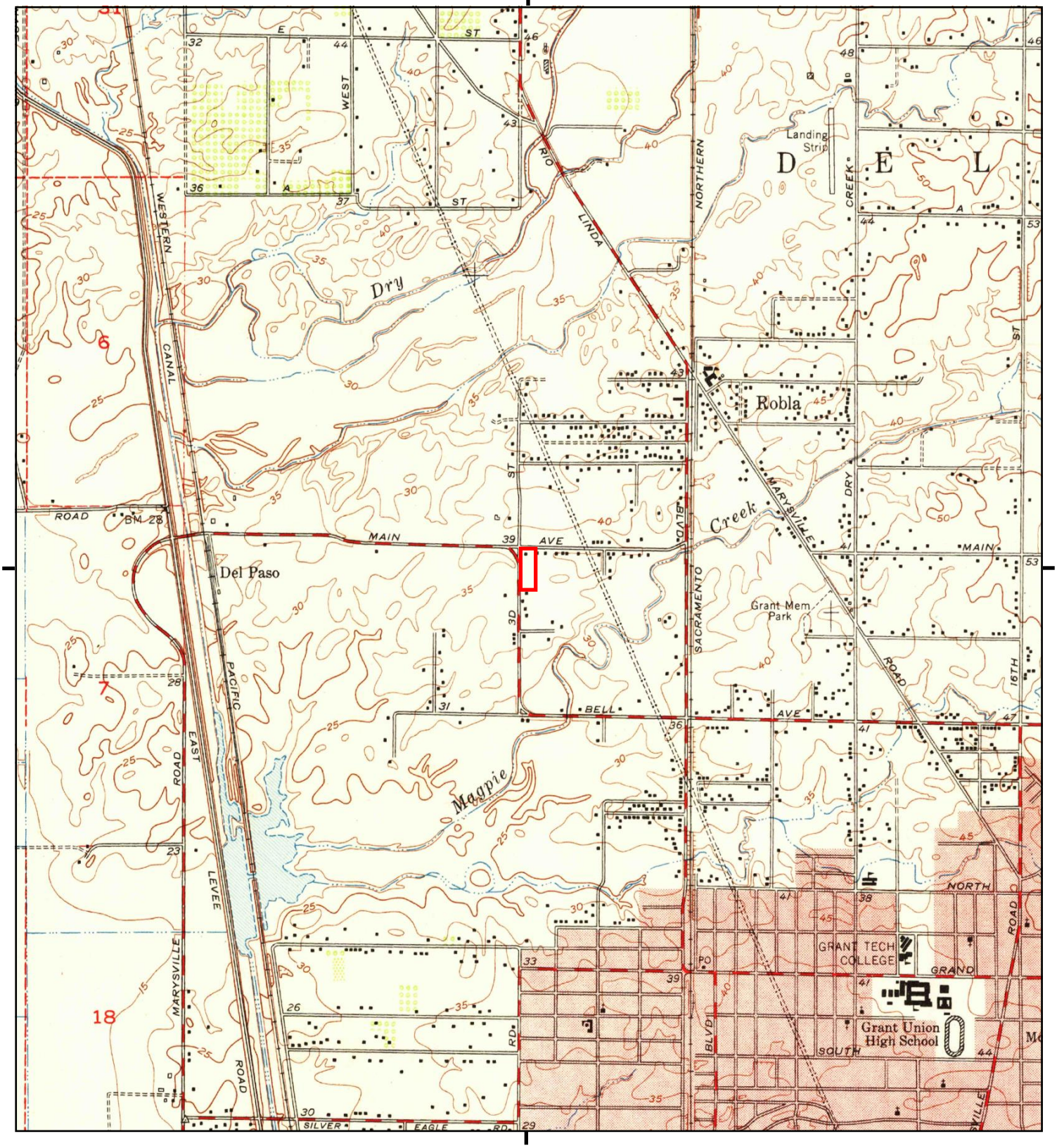
TP, Fair Oaks, 1954, 15-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1951



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

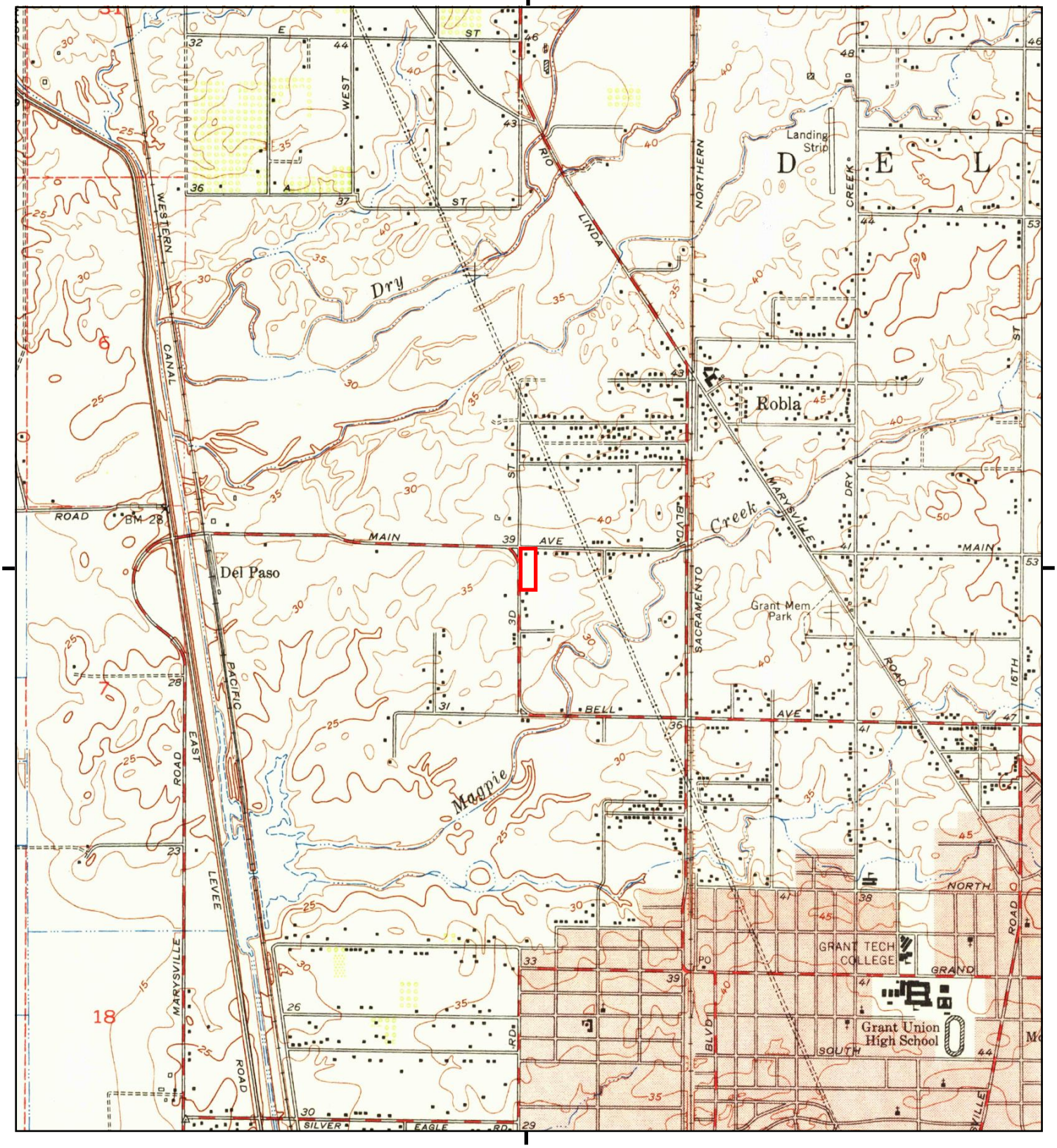
TP, Rio Linda, 1951, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1950



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

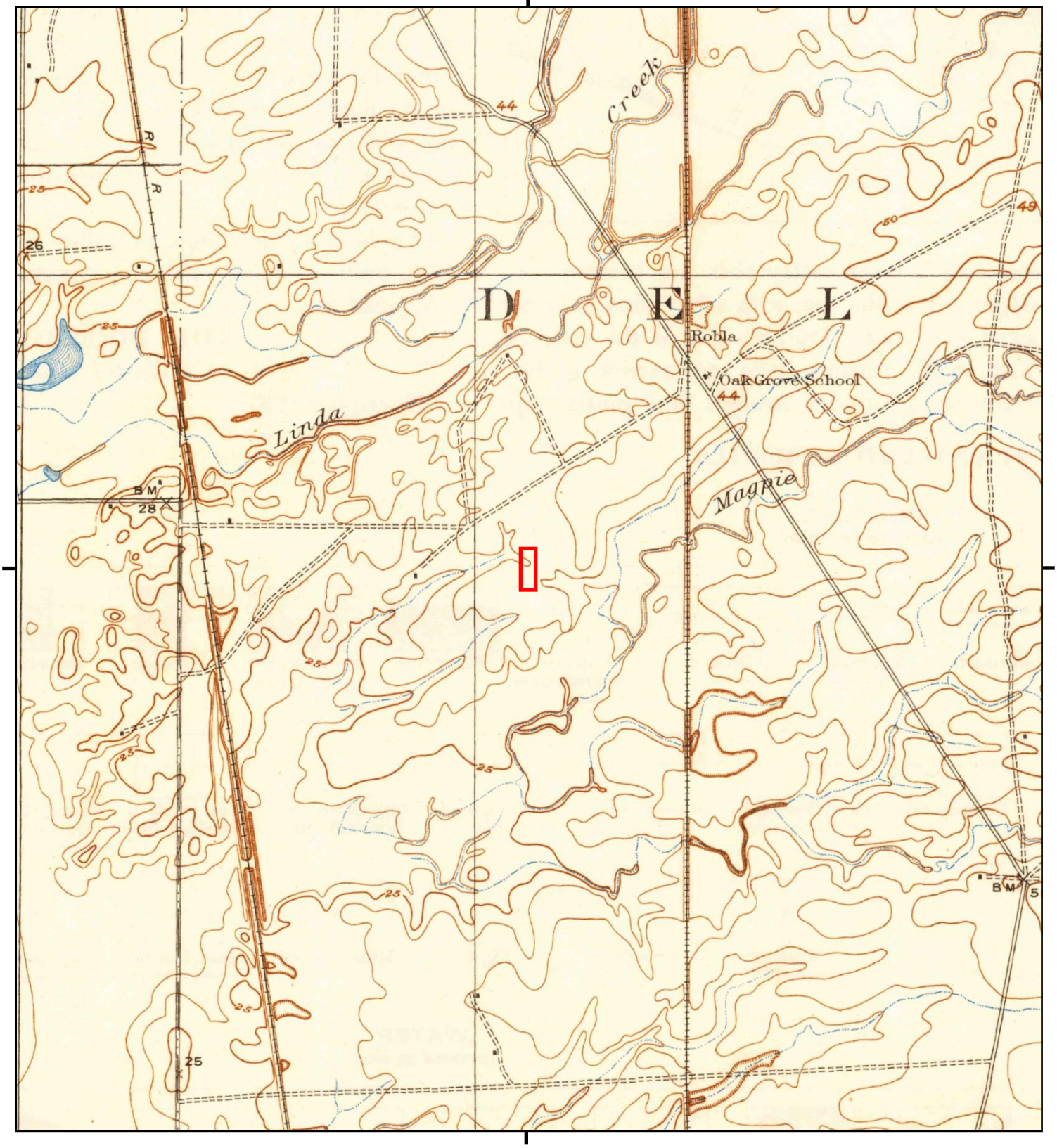
TP, Rio Linda, 1950, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1911



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

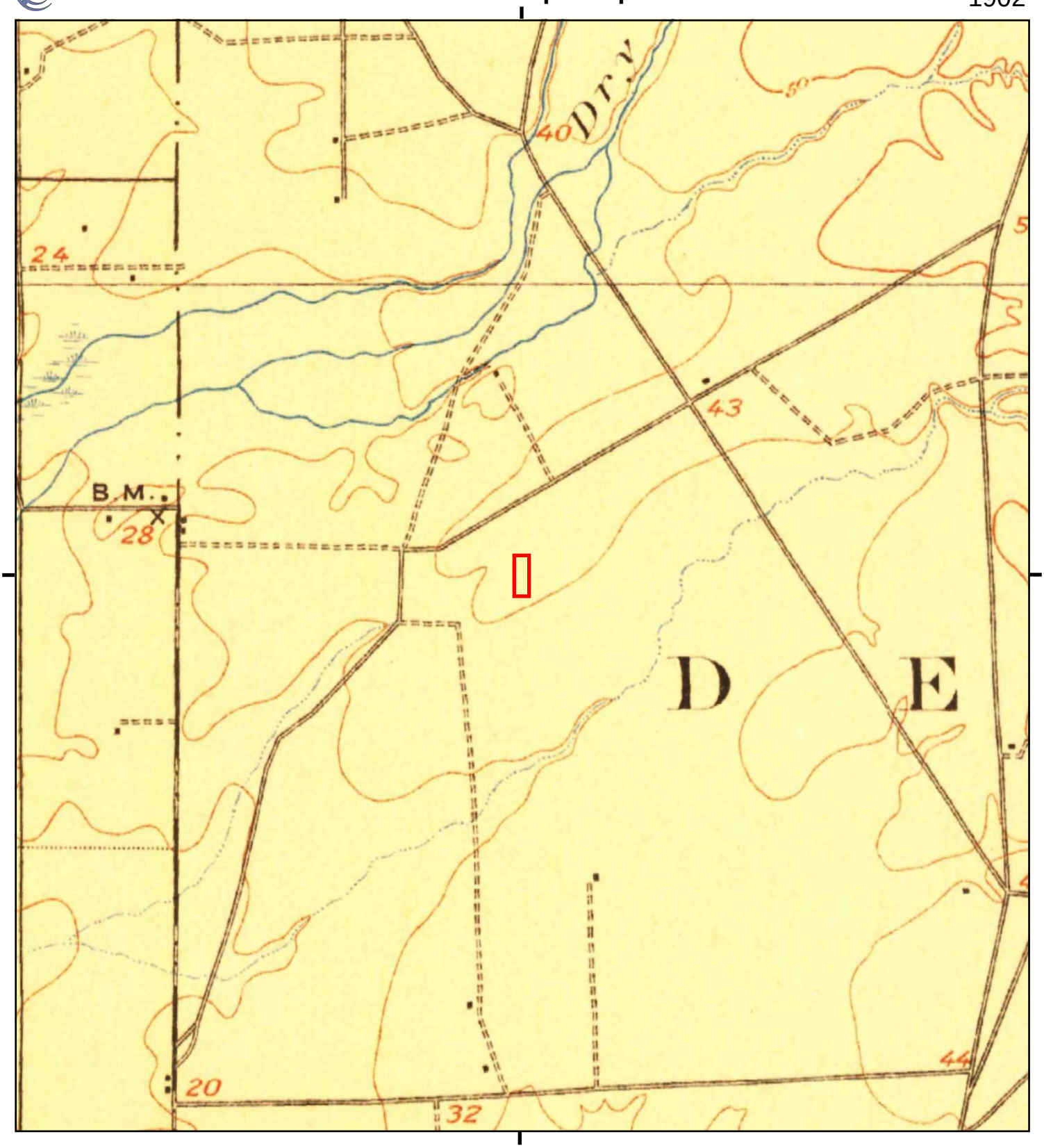
TP, Arcade, 1911, 7.5-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1902



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

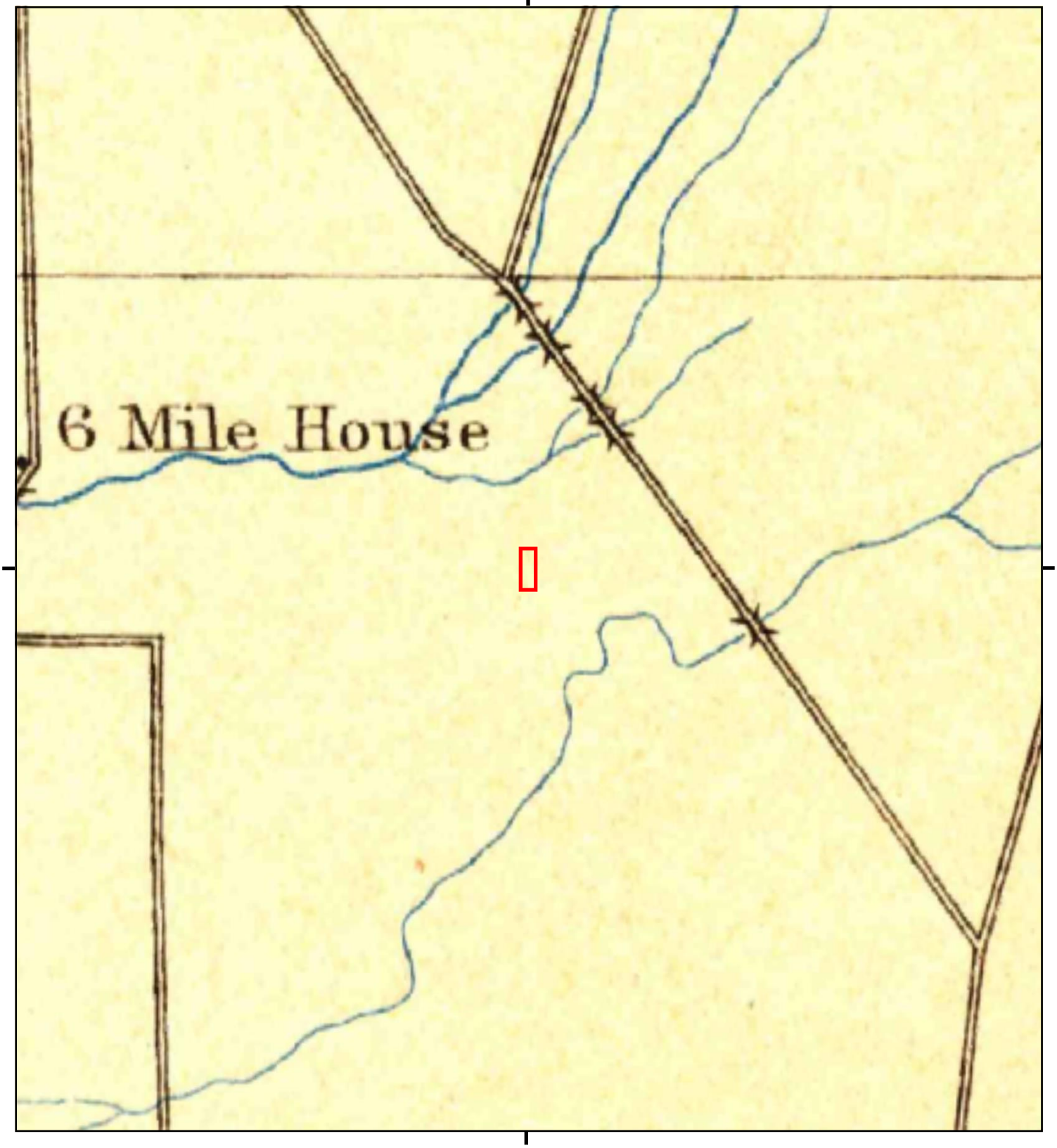
TP, Fairoaks, 1902, 15-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1893



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

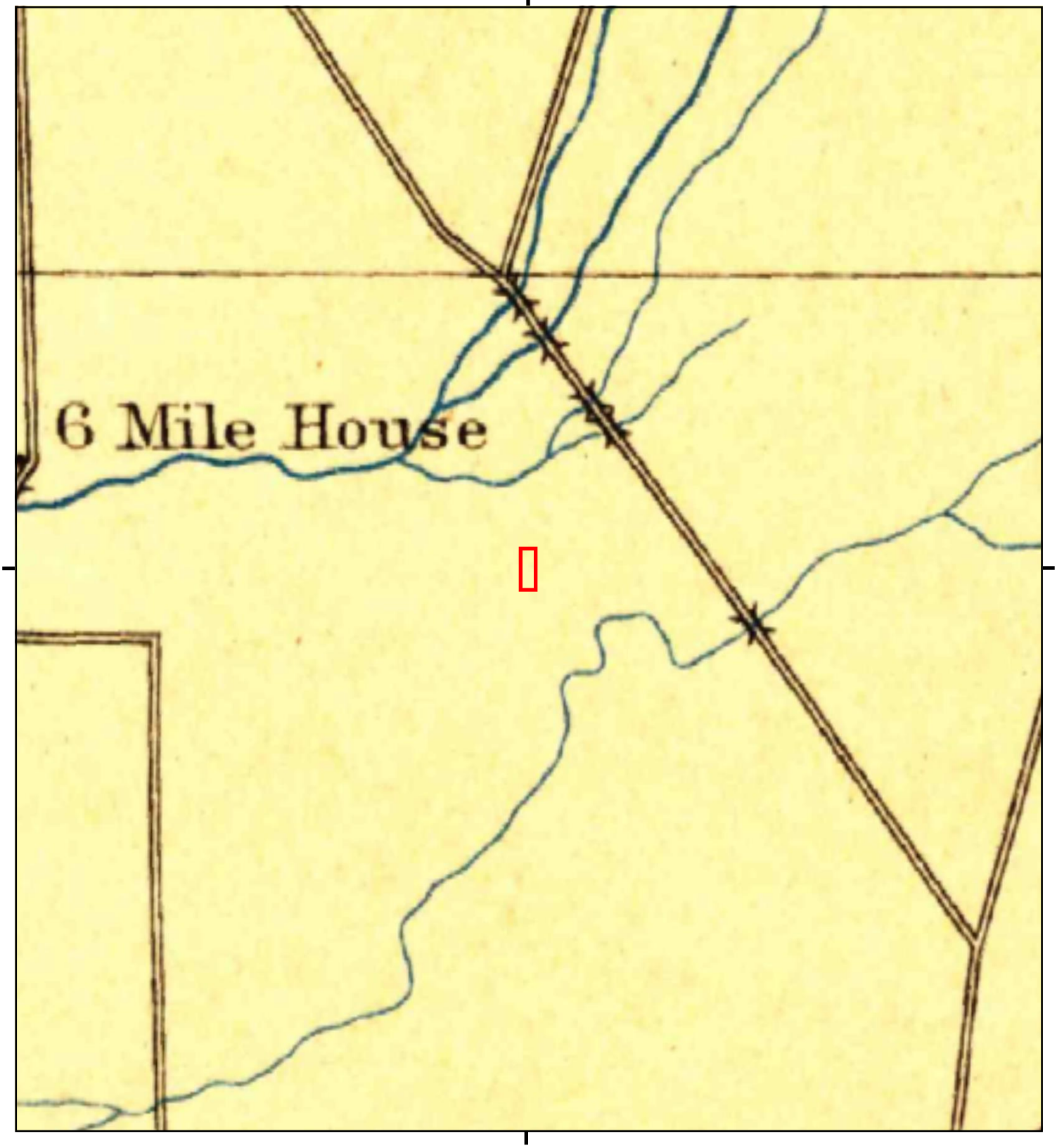
TP, Sacramento, 1893, 30-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1892



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

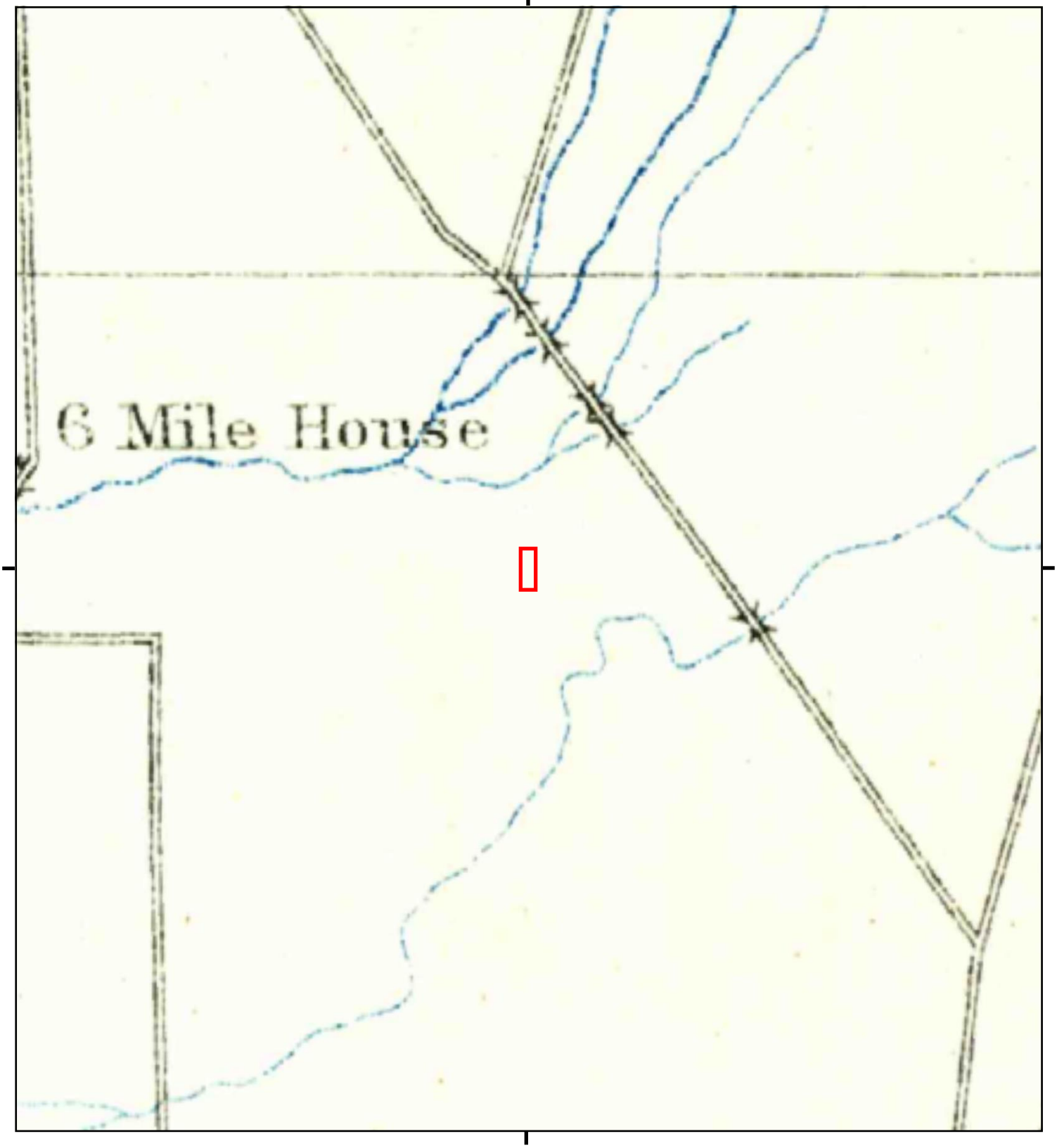
TP, Sacramento, 1892, 30-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

Historical Topo Map

1891



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Sacramento, 1891, 30-minute

SITE NAME: Raney 4790 Norwood Ave Phase I ESA
ADDRESS: 4790 Norwood Avenue
Sacramento, CA 95838
CLIENT: Geocon Consultants, Inc.

N

APPENDIX E

Raney 4790 Norwood Ave Phase I ESA
4790 Norwood Avenue
Sacramento, CA 95838

Inquiry Number: 6838431.5
January 31, 2022

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	X	X	-
2014	Cole Information Services	-	X	X	-
2009	Cole Information Services	-	X	X	-
2005	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2004	Cole Information Services	-	X	X	-
2002	SBC PACIFIC BELL	-	-	-	-
1999	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
	Haines & Company	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1999	Haines & Company	X	X	X	-
1995	Pacific Bell	-	X	X	-
1994	Cole Information Services	-	X	X	-
1991	Pacific Bell	-	X	X	-
1982	R. L. Polk & Co.	-	-	-	-
1980	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1975	R. L. Polk & Co.	-	X	X	-
	R. L. Polk & Co.	X	X	X	-
1970	Sacramento Directory Co.	-	X	X	-
	Sacramento Directory Co.	X	X	X	-
1966	Sacramento Directory Co.	-	-	-	-
1965	Sacramento Directory Co. Publishers	-	X	X	-
	Sacramento Directory Co. Publishers	X	X	X	-
1961	Sacramento Directory Co.	-	X	X	-
1957	Sacramento Directory Co.	-	X	X	-
1956	Sacramento Directory Co.	-	-	-	-
1952	Sacramento Directory Co.	-	-	-	-
1947	Sacramento Directory Co.	-	-	-	-
1942	Sacramento Directory Co.	-	-	-	-
1937	Sacramento Directory Co.	-	-	-	-
1933	Sacramento Directory Co.	-	-	-	-
1928	Sacramento Directory Co.	-	-	-	-
1923	Sacramento Directory Co.	-	-	-	-
1920	Sacramento Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

4790 Norwood Avenue
Sacramento, CA 95838

FINDINGS DETAIL

Target Property research detail.

NORWOOD AVE

4790 NORWOOD AVE

Year	*Uses*	*Source*
2005	JAVAHERIShahin	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services
	NABONG Rose	Haines & Company
1980	Brown Tillie E Mrs	R. L. Polk & Co.
1975	Brown Tillie E Mrs	R. L. Polk & Co.
1970	Brown Tillie E Mrs e	Sacramento Directory Co.
1965	Brown John F	Sacramento Directory Co. Publishers

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

DELTA LEAF WAY

224 DELTA LEAF WAY

Year	Uses	Source
2017	ELIZABETH GARDNER	Cole Information Services
2014	ELIZABETH GARDNER	Cole Information Services
2009	ELIZABETH GARDNER	Cole Information Services
2005	GARDNER Ezabeh	Haines Company, Inc.
2004	ELIZABETH GARDNER	Cole Information Services
1999	ELIZABETH GARDNER	Cole Information Services
	GARDNER Elizabeth	Haines & Company

228 DELTA LEAF WAY

Year	Uses	Source
2017	ISMAEL GALINDO	Cole Information Services
2014	ISMAEL GALINDO	Cole Information Services
2009	ISMAEL GALINDO	Cole Information Services
2005	GDAUNOIknaw I	Haines Company, Inc.
2004	ISMAEL GALINDO	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	ISMAEL GALINDO	Cole Information Services
	GALINDO Ismael	Haines & Company

229 DELTA LEAF WAY

Year	Uses	Source
2017	KELLY SEVERE	Cole Information Services
2014	KELLY SEVERE	Cole Information Services
2009	DARCY WEHRMAN	Cole Information Services
2005	WEHRMANDaemy	Haines Company, Inc.
2004	DARCY WEHRMAN	Cole Information Services
1999	DARCY WEHRMAN	Cole Information Services

FINDINGS

Year	Uses	Source
1999	WEHRMAN Darcy	Haines & Company

232 DELTA LEAF WAY

Year	Uses	Source
2017	JAIME LEAL	Cole Information Services
2014	JAIME LEAL	Cole Information Services
2009	ROBERT LINK	Cole Information Services
2005	LINK oeneva	Haines Company, Inc.
2004	DAVID HATHAWAY	Cole Information Services
1999	ROBERT LINK	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	LINK Genava	Haines & Company

233 DELTA LEAF WAY

Year	Uses	Source
2017	GEORGE CARTER	Cole Information Services
2014	ALFONSO CERVANTES	Cole Information Services
2009	NATASHA HARRIS	Cole Information Services
2005	NANDVlshw a	Haines Company, Inc.
	HARRIS Natalsha	Haines Company, Inc.
2004	VISHWA NAND	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	SLEPIAN Daniel	Haines & Company
1995	NADEAU Brian	Pacific Bell
1994	NADEAU, BRIAN	Cole Information Services

236 DELTA LEAF WAY

Year	Uses	Source
2014	SEAN MCCAULEY	Cole Information Services
2009	RICK GALL	Cole Information Services
2005	GALLRick	Haines Company, Inc.
2004	RICK GALL	Cole Information Services
1999	RICK GALL	Cole Information Services
	GONZALEZ Alejandro	Haines & Company

FINDINGS

Year	Uses	Source
1994	GONZALEZ, A R	Cole Information Services

237 DELTA LEAF WAY

Year	Uses	Source
2017	KASANDRA SOTO	Cole Information Services
2009	PETER MARINO	Cole Information Services
2005	HENDERSON Dar Nelle	Haines Company, Inc.
2004	ALFRED YOUNG	Cole Information Services
1999	STOCKTON Michael	Haines & Company

240 DELTA LEAF WAY

Year	Uses	Source
2014	GEORGE GONSALVES	Cole Information Services
2009	HAROLD GONSALVES	Cole Information Services
2005	GONSALVESH	Haines Company, Inc.
2004	HAROLD GONSALVES	Cole Information Services
1999	HAROLD GONSALVES	Cole Information Services
	GONSALVES H	Haines & Company
1991	Low ery David W	Pacific Bell

241 DELTA LEAF WAY

Year	Uses	Source
2017	TONYA SHEPPARD	Cole Information Services
2014	TONYA SHEPPARD	Cole Information Services
2009	TONYA SHEPPARD	Cole Information Services
2005	SHEPPARDTonya	Haines Company, Inc.
2004	TONYA SHEPPARD	Cole Information Services
1999	TONYA SHEPPARD	Cole Information Services
	SHEPPARD Tonya	Haines & Company

244 DELTA LEAF WAY

Year	Uses	Source
2017	SHARON BURRIS	Cole Information Services
2014	CAROL NICHOLAS	Cole Information Services
2009	TIERSA BROWN	Cole Information Services

FINDINGS

Year	Uses	Source
2005	KAPOORYoglnder	Haines Company, Inc.
2004	HARDEEP DEOL	Cole Information Services
1999	TIERSA BROWN	Cole Information Services
	KAPOOR Yoginder	Haines & Company

245 DELTA LEAF WAY

Year	Uses	Source
2014	JOEL GAYTAN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	ALVASara	Haines Company, Inc.
2004	SARA ALVA	Cole Information Services
1999	ALVA Sara	Haines & Company

248 DELTA LEAF WAY

Year	Uses	Source
2014	AMRIT DHILLON	Cole Information Services
2009	ARTHUR JACKSON	Cole Information Services
2005	ODHILLONCalr	Haines Company, Inc.
2004	RAGBIR DHILLON	Cole Information Services
1999	ARTHUR JACKSON	Cole Information Services
	DHILLON Ragbhir	Haines & Company

249 DELTA LEAF WAY

Year	Uses	Source
2017	LAVONNE WILLIAMS	Cole Information Services
2014	JAVELINE WOODS	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	OMOTTEJohn	Haines Company, Inc.
	HARMANL	Haines Company, Inc.
2004	DURKE JENSEN	Cole Information Services
1999	MAGSAM Tana L	Haines & Company
	MAGSAM Tana L	Haines & Company

FINDINGS

252 DELTA LEAF WAY

Year	Uses	Source
2017	PEDRO PANTOJA	Cole Information Services
2014	PEDRO PANTOJA	Cole Information Services
2009	PEDRO PANTOJA	Cole Information Services
2005	PANTOJA Pedro	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	PEDRO PANTOJA	Cole Information Services
	SHAVER Dale	Haines & Company
	MCCLELLAN Jack	Haines & Company
1995	SHAVER Dale	Pacific Bell
1991	Mc Clellan Jack C	Pacific Bell

256 DELTA LEAF WAY

Year	Uses	Source
2017	LIAM LUANGRATH	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	JOY SOBREDO	Cole Information Services
2005	SOBREDO Joy	Haines Company, Inc.
2004	LISA FAIST	Cole Information Services
	RICK JEFFERS	Cole Information Services
	STEVEN POLAND	Cole Information Services
1999	JOY SOBREDO	Cole Information Services
	KAPOOR Yoginder	Haines & Company
1995	MCGUIRE Patrick	Pacific Bell

260 DELTA LEAF WAY

Year	Uses	Source
2017	VADIM SHVETS	Cole Information Services
2014	VADIM SHVETS	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	SFOWLER Lany	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	FOWLER Larry	Haines & Company

FINDINGS

264 DELTA LEAF WAY

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	DONALD FRIEL	Cole Information Services
2005	BENSONDerek	Haines Company, Inc.
1999	BENSON Derek	Haines & Company
	DONALD FRIEL	Cole Information Services

268 DELTA LEAF WAY

Year	Uses	Source
2017	MANUEL BRACAMONTE	Cole Information Services
2014	MANUEL BRACAMONTE	Cole Information Services
2009	MANUEL BRACAMONTE	Cole Information Services
2005	LAMMEROING Claire	Haines Company, Inc.
2004	JOHN TORRES	Cole Information Services
1999	MANUEL BRACAMONTE	Cole Information Services
	POPE Chad	Haines & Company
	LAMMERDING Claire	Haines & Company

272 DELTA LEAF WAY

Year	Uses	Source
2017	MASUM KHAN	Cole Information Services
2014	MASUM KHAN	Cole Information Services
2009	CYNTHIA MCDANIELS	Cole Information Services
1999	CYNTHIA MCDANIELS	Cole Information Services

276 DELTA LEAF WAY

Year	Uses	Source
2017	VARINDER SHARMA	Cole Information Services
2014	VARINDER SINGH	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services

280 DELTA LEAF WAY

Year	Uses	Source
2014	KIMBERLY WHITE	Cole Information Services
2009	JERRY LAO	Cole Information Services

FINDINGS

Year	Uses	Source
1999	JERRY LAO	Cole Information Services

283 DELTA LEAF WAY

Year	Uses	Source
2017	ASMA SIDDIQUA	Cole Information Services
2014	ASMA SIDDIQUA	Cole Information Services

284 DELTA LEAF WAY

Year	Uses	Source
2017	ANDRES MAGALLANES	Cole Information Services
2014	ANDRES MAGALLANES	Cole Information Services
2009	CHUE THAO	Cole Information Services
1999	CHUE THAO	Cole Information Services

287 DELTA LEAF WAY

Year	Uses	Source
2017	EFRAIN FIGUEROA	Cole Information Services
2014	EFRAIN RIVERA	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services

291 DELTA LEAF WAY

Year	Uses	Source
2017	KAPIL PRASAD	Cole Information Services
2014	KAPIL PRASAD	Cole Information Services
2009	KHAMPHOUT EKASONE	Cole Information Services
1999	KHAMPHOUT EKASONE	Cole Information Services

295 DELTA LEAF WAY

Year	Uses	Source
2017	PRAVEN SINGH	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	DHARMENDRE PRASAD	Cole Information Services
1999	DHARMENDRE PRASAD	Cole Information Services

FINDINGS

DRY DOCK WAY

4800 DRY DOCK WAY

Year	Uses	Source
2017	AVA CHANG	Cole Information Services
2014	TIM HUFF	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	WANYuk J	Haines Company, Inc.
	YEEGeorge	Haines Company, Inc.
2004	YUK WAN	Cole Information Services
1999	YEE Gaorge	Haines & Company
	WAN Yuk J	Haines & Company
1991	Miller Joe	Pacific Bell

4801 DRY DOCK WAY

Year	Uses	Source
2017	LESTER LAWSON	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	LESTER LAWSON	Cole Information Services
2005	OCISMONDI Edw ard	Haines Company, Inc.
2004	IHUOMA UBA	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	LESTER LAWSON	Cole Information Services
	CISMONDI Edw ard	Haines & Company

4810 DRY DOCK WAY

Year	Uses	Source
2017	SALVADOR RODRIGUEZ	Cole Information Services
2014	EUGENIA JUAREZ	Cole Information Services
2005	OPASCUALOfela	Haines Company, Inc.
2004	REMIGIO PASCUAL	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	MORK Kenneth	Haines & Company

FINDINGS

4811 DRY DOCK WAY

Year	Uses	Source
2014	MARGARET KEYS	Cole Information Services
2009	LAURA MENDOZA	Cole Information Services
2005	CURREYWallace	Haines Company, Inc.
2004	WALLACE CURREY	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	LAURA MENDOZA	Cole Information Services
	CURREY Wallace	Haines & Company

4820 DRY DOCK WAY

Year	Uses	Source
2014	VANESSA AGUILAR	Cole Information Services
2009	JUAN LOPEZ	Cole Information Services
2005	LOPEZJuan Leon	Haines Company, Inc.
2004	MANOJ KUMAR	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	JUAN LOPEZ	Cole Information Services
	ZINE Charles	Haines & Company

4830 DRY DOCK WAY

Year	Uses	Source
2017	PAUL BERTOK	Cole Information Services
2014	LUCAS VANYEL	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	OLUCASVanyel VANYEL Lucas	Haines Company, Inc.
2004	LUCAS VANYEL	Cole Information Services
1999	WHALEY George	Haines & Company

4831 DRY DOCK WAY

Year	Uses	Source
2017	JESSICA BAGANO	Cole Information Services
2014	JEFFREY DEVOLL	Cole Information Services
2009	THEIL SYLVE	Cole Information Services
2005	JOHNSON Rorald	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	THEIL SYLVE	Cole Information Services
	JOHNSON Ronald	Haines & Company
1994	LEWIS, DEBORAH	Cole Information Services

JUSTICE ST

4783 JUSTICE ST

Year	Uses	Source
2017	JOSEPH IBE	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	GEORGE IBE	Cole Information Services
2005	BASSIG Protlaco	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	GEORGE IBE	Cole Information Services

4784 JUSTICE ST

Year	Uses	Source
2017	KACHEE CHA	Cole Information Services
2014	MAI XIONG	Cole Information Services
2005	JONES Linda	Haines Company, Inc.
1991	Vaaler Luther	Pacific Bell
	Hennessy D	Pacific Bell

4787 JUSTICE ST

Year	Uses	Source
2017	ZEESHAN AKRAM	Cole Information Services
2014	ZEESHAN AKRAM	Cole Information Services
2009	ZEESHAN AKRAM	Cole Information Services
2005	GARVINMike	Haines Company, Inc.
2004	MIKE GARVIN	Cole Information Services
1999	ZEESHAN AKRAM	Cole Information Services
1991	Mc Daniel Flint	Pacific Bell

FINDINGS

4788 JUSTICE ST

Year	Uses	Source
2017	MELISSA DRIVER	Cole Information Services
2014	MELISSA DRIVER	Cole Information Services
2009	ARTHUR AQUINO	Cole Information Services
2005	MENDEZJuan	Haines Company, Inc.
	DRIVERTrish	Haines Company, Inc.
2004	JUAN MENDEZ	Cole Information Services
1999	ARTHUR AQUINO	Cole Information Services

4791 JUSTICE ST

Year	Uses	Source
2009	MARTIN VILLALPANDO	Cole Information Services
2005	CISNEROSMartin VILLALPANDO Martlin	Haines Company, Inc.
2004	MARTIN VILLANPANDO	Cole Information Services
1999	MARTIN VILLALPANDO	Cole Information Services

4792 JUSTICE ST

Year	Uses	Source
2017	HAROLD HORRIGAN	Cole Information Services
2014	HAROLD HORRIGAN	Cole Information Services
2009	MANUEL QUINTERO	Cole Information Services
2005	0 UINTERO Manuel	Haines Company, Inc.
2004	MANUEL QUINTERO	Cole Information Services
1999	MANUEL QUINTERO	Cole Information Services

MAIN AVE

348 MAIN AVE

Year	Uses	Source
2017	LEE XIONG	Cole Information Services
2014	EVANGELINE XIONG	Cole Information Services
2009	XIONG EVANGELINE	Cole Information Services
2005	EVANGEUNEXkce	Haines Company, Inc.
	XIONGLee	Haines Company, Inc.
2004	XIONG EVANGELINE	Cole Information Services

FINDINGS

Year	Uses	Source
1999	XIONG EVANGELINE	Cole Information Services
	GAGNON Victoria	Haines & Company

366 MAIN AVE

Year	Uses	Source
2017	GEORGE WHITE	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	GEORGE WHITE	Cole Information Services
2005	CONRAD Dooglas	Haines Company, Inc.
2004	GEORGE WHITE	Cole Information Services
1999	GEORGE WHITE	Cole Information Services
	WHITE George	Haines & Company

372 MAIN AVE

Year	Uses	Source
2017	ASHOK KUMAR	Cole Information Services
2014	ASHOK KUMAR	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	KUMARAshok	Haines Company, Inc.
2004	A & E CLEANING SERVICES	Cole Information Services
	ASHOK KUMAR	Cole Information Services
1999	KUMAR Ashok	Haines & Company
1995	GREEN C E	Pacific Bell
	G & G Computer Services	Pacific Bell
1994	GREEN, CHARLES E	Cole Information Services
1991	Green C E	Pacific Bell

378 MAIN AVE

Year	Uses	Source
2017	SUKHNINDER MATHARU	Cole Information Services
2014	BALBIR DHANOTA	Cole Information Services
2009	BALBIR DHANOTA	Cole Information Services
2005	DHANOTAKaranjit S	Haines Company, Inc.
2004	BALBIR DHANOTA	Cole Information Services

FINDINGS

Year	Uses	Source
1999	BALBIR DHANOTA	Cole Information Services
	DHANOTA Gurpreet	Haines & Company
	DHANOTA Karamjit S	Haines & Company
1995	DHANOTA Karamjit Singh	Pacific Bell
1994	DHANOTA, K S	Cole Information Services

384 MAIN AVE

Year	Uses	Source
2017	EBONY POUNCIL	Cole Information Services
2014	GURPREET DHANOTA	Cole Information Services
2009	GURPREET DHANOTA	Cole Information Services
2005	SAIJanswinder	Haines Company, Inc.
1999	GILL Iqbal	Haines & Company
	GURPREET DHANOTA	Cole Information Services

400 MAIN AVE

Year	Uses	Source
1999	AMERICAN SAVINGS BANK BRANCH OFFICES	Cole Information Services

401 MAIN AVE

Year	Uses	Source
2004	ANGEL AMERICA INTERNATIONAL CO	Cole Information Services

408 MAIN AVE

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

414 MAIN AVE

Year	Uses	Source
2004	SACRAMEMTO SADDLERY	Cole Information Services

424 MAIN AVE

Year	Uses	Source
2017	LISA SCHIMPF	Cole Information Services
2014	LISA SCHIMPF	Cole Information Services
2009	LISA SCHIMPF	Cole Information Services

FINDINGS

Year	Uses	Source
2004	LISA SCHIMPF	Cole Information Services
1999	LISA SCHIMPF	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	SCHIMPF Marrel	Haines & Company
1995	SPERLE Ella R	Pacific Bell
	SPERLE Jake	Pacific Bell
1994	SPERLE, JAKE	Cole Information Services
1991	Sperle Ella R	Pacific Bell
	Sperle Jake	Pacific Bell
1980	Sperle Jake	R. L. Polk & Co.
1975	Sperle Jake	R. L. Polk & Co.
1970	Sperle Jake	Sacramento Directory Co.
1961	Sperle Jake	Sacramento Directory Co.

436 MAIN AVE

Year	Uses	Source
2017	CHUNYING HUANG	Cole Information Services
2014	CYNTHIA HUSAR	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	OHUSARMa RI	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	HINTZ Otto O	Haines & Company
1995	HINTZ Otto O	Pacific Bell
1994	HINTZ, OTTO O	Cole Information Services
1991	Hintz Otto O	Pacific Bell
1980	Hintz Otto	R. L. Polk & Co.
1975	Hintz Otto	R. L. Polk & Co.
1970	Hintz Otto	Sacramento Directory Co.
1961	Hintz Otto 0 AWA	Sacramento Directory Co.

444 MAIN AVE

Year	Uses	Source
2017	KENNETH HUSAR	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

Year	Uses	Source
2009	MARK HUSAR	Cole Information Services
	CALIFORNIA LIGHTING SERVICES I	Cole Information Services
2005	CAUGHTING SER	Haines Company, Inc.
	HUSARMari	Haines Company, Inc.
2004	CALIFORNIA LIGHTING SERVICES INC	Cole Information Services
	MARK HUSAR	Cole Information Services
1999	MARCIN INDUSTRIES INCORPORATED	Cole Information Services
	MARK HUSAR	Cole Information Services
	MARCIN INDUSTRIES INC	Haines & Company
	HUSAR Mark	Haines & Company
1991	Husar Mark J	Pacific Bell
1980	ABurns Gary D	R. L. Polk & Co.
1975	Johnson Maggie Mrs	R. L. Polk & Co.
1970	Roberts Marcus	Sacramento Directory Co.
1961	Crider Marcia	Sacramento Directory Co.

447 MAIN AVE

Year	Uses	Source
2017	JASMIN TRENARY	Cole Information Services
2014	KEN HUSAR	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	WOODDMichael	Haines Company, Inc.
2004	MICHAEL WOOD	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	BAKER Kevin	Haines & Company
1980	No Return	R. L. Polk & Co.
1975	Murdock Gerald W	R. L. Polk & Co.
1970	Murdock Gerald W	Sacramento Directory Co.
1961	Bu Lih Sidney	Sacramento Directory Co.

448 MAIN AVE

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

Year	Uses	Source
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	YAMANAKA Toshiaki	Haines & Company
1980	Rasmussen John W	R. L. Polk & Co.
1975	Hornan dez Roberto	R. L. Polk & Co.
1970	Brow n Bill	Sacramento Directory Co.
1961	Vacant	Sacramento Directory Co.

451 MAIN AVE

Year	Uses	Source
2014	MICHAEL CARDENAS	Cole Information Services
2009	MICHAEL CARDENAS	Cole Information Services
	AS IT HAPPENS PHOTOGRAPHY	Cole Information Services
2004	SCOTT LORENZO	Cole Information Services
1999	CARDENAS Michael	Haines & Company
1980	Cardenas Michi A	R. L. Polk & Co.
1975	Cardenas Michl A	R. L. Polk & Co.
1970	Vacant	Sacramento Directory Co.
1961	Murdock Gerald W w a	Sacramento Directory Co.

MAIN AVE W

412 MAIN AVE W

Year	Uses	Source
1957	Sacramento Sales Co salvage w a	Sacramento Directory Co.

MAIN ST

354 MAIN ST

Year	Uses	Source
1999	XXXX	Haines & Company

406 MAIN ST

Year	Uses	Source
2005	WALKER Reva	Haines Company, Inc.

FINDINGS

427 MAIN ST

Year	Uses	Source
1999	SEARS LWN & GRDNCRFTSMN TOOLS	Haines & Company
	SEARS HOME APPLNCES & ELECTRNCS	Haines & Company

448 MAIN ST

Year	Uses	Source
2005	OROZCOosaendo	Haines Company, Inc.

451 MAIN ST

Year	Uses	Source
2005	DANIELS Cyril	Haines Company, Inc.

454 MAIN ST

Year	Uses	Source
2005	MARINE&AUTOMOTIVE	Haines Company, Inc.
	NOI PERFORMANCE	Haines Company, Inc.
	GARD David	Haines Company, Inc.

460 MAIN ST

Year	Uses	Source
1999	XXXX	Haines & Company

461 MAIN ST

Year	Uses	Source
1999	XXXX	Haines & Company

470 MAIN ST

Year	Uses	Source
1999	XXXX	Haines & Company

MUNICIPAL DR

368 MUNICIPAL DR

Year	Uses	Source
2017	DRAHOMIRA SLONEK	Cole Information Services
2014	FRANKS MECHANICAL	Cole Information Services
	VLADIMIR SLONEK	Cole Information Services

FINDINGS

Year	Uses	Source
2009	VLADIMIR SLONEK	Cole Information Services
	FRANKS MECHANICAL	Cole Information Services
2005	SLONEKVladimir	Haines Company, Inc.
2004	VLADIMIR SLONEK	Cole Information Services
	FRANKS MECHANICAL	Cole Information Services
1999	VLADIMIR SLONEK	Cole Information Services
	SLONEK Vladimir	Haines & Company

374 MUNICIPAL DR

Year	Uses	Source
2017	DOMINIQUE CERVANTES	Cole Information Services
2014	SHIU NARAYAN	Cole Information Services
2009	DANNY ROBERSON	Cole Information Services
2005	ROBERSONDainy	Haines Company, Inc.
2004	DANNY ROBERSON	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	DANNY ROBERSON	Cole Information Services
	MAXWELL Pamela	Haines & Company

375 MUNICIPAL DR

Year	Uses	Source
2017	FORREST COX	Cole Information Services
2014	FORREST COX	Cole Information Services
2009	FORREST COX	Cole Information Services
2005	COX Forestl	Haines Company, Inc.
2004	FORREST COX	Cole Information Services
1999	FORREST COX	Cole Information Services
	COX Forrest	Haines & Company

379 MUNICIPAL DR

Year	Uses	Source
2014	STEVE OBLINGER	Cole Information Services
2009	BERNARD JONES	Cole Information Services
2005	PHAM Sieven	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2004	STEVEN PHAM	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	BERNARD JONES	Cole Information Services
	PHAM Steven	Haines & Company

380 MUNICIPAL DR

Year	Uses	Source
2017	GURCHARAN GILL	Cole Information Services
2014	GURCHARAN GILL	Cole Information Services
2009	GURCHARAN GILL	Cole Information Services
2005	OGILLO	Haines Company, Inc.
2004	GURCHARAN GILL	Cole Information Services
1999	GURCHARAN GILL	Cole Information Services
	CRENSHAW Allen	Haines & Company

385 MUNICIPAL DR

Year	Uses	Source
2017	SARAH FRANCO	Cole Information Services
2014	MOHSIN QAMAR	Cole Information Services
2009	MOHSIN QAMAR	Cole Information Services
2005	OPLACEKKarean	Haines Company, Inc.
1999	PLACEKHERNA Karen	Haines & Company
	MOHSIN QAMAR	Cole Information Services

386 MUNICIPAL DR

Year	Uses	Source
2017	JOHNNEY JOHNSON	Cole Information Services
2014	JULIE ERNST	Cole Information Services
2009	BRYANT WYATT	Cole Information Services
2005	OWYATTBryant	Haines Company, Inc.
2004	BRYANT WYATT	Cole Information Services
1999	BRYANT WYATT	Cole Information Services
	LANG Paula	Haines & Company

FINDINGS

391 MUNICIPAL DR

Year	Uses	Source
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	PADGETTJames	Haines Company, Inc.
	PADGETTJames	Haines Company, Inc.
2004	CHRISTOPHER SCHNOOR	Cole Information Services
	INTERIOR IMAGES	Cole Information Services
1999	PADGETT Christy	Haines & Company
	PADGETT James	Haines & Company
1991	Verdolivo Ken & Karren	Pacific Bell

392 MUNICIPAL DR

Year	Uses	Source
2014	COURTNEY DAVIS	Cole Information Services
2009	JARRETT ZUSPAN	Cole Information Services
2005	OZUSPANJarre	Haines Company, Inc.
	WASSERMAN Shanna	Haines Company, Inc.
2004	SHANNA WASSERMAN	Cole Information Services
1999	JARRETT ZUSPAN	Cole Information Services
	GIRARD Phillip	Haines & Company

395 MUNICIPAL DR

Year	Uses	Source
2017	KYLE BLAIR	Cole Information Services
2014	RUEBEN BLAIR	Cole Information Services
2009	AL MARTINEZ	Cole Information Services
2005	t MARTINEZAlphonso	Haines Company, Inc.
2004	AL MARTINEZ	Cole Information Services
1999	MARTINEZ Alphonso	Haines & Company
1994	GRAVES, RON	Cole Information Services
1991	Graves Ron & Karen	Pacific Bell

398 MUNICIPAL DR

Year	Uses	Source
2017	JOSE TORRES	Cole Information Services

FINDINGS

Year	Uses	Source
2014	JENNIFER LAMB	Cole Information Services
2009	DAVID ROGERS	Cole Information Services
2005	00 GERS David	Haines Company, Inc.
2004	DAVID ROGERS	Cole Information Services
1999	DAVID ROGERS	Cole Information Services
	ROGERS David	Haines & Company
1995	LOUNSBERRY Gary & Frances	Pacific Bell
1994	LOUNSBERRY, GARY	Cole Information Services

399 MUNICIPAL DR

Year	Uses	Source
2017	ASHLEY CHAMBERS	Cole Information Services
2014	ANTONIO BLANCO	Cole Information Services
2009	JAY NELSON	Cole Information Services
2005	ONELSONJay	Haines Company, Inc.
1999	NELSON Jay	Haines & Company
	JAY NELSON	Cole Information Services

NORWOOD AVE

1 NORWOOD AVE

Year	Uses	Source
2005	a Wr IRD	Haines Company, Inc.
	NORWOOD AVE 95838 COOT	Haines Company, Inc.

17 NORWOOD AVE

Year	Uses	Source
1980	DPeiamovtch Vest	R. L. Polk & Co.
	C Vacant	R. L. Polk & Co.
	B Vacant	R. L. Polk & Co.
	A Vacant	R. L. Polk & Co.
	19 Apai tments	R. L. Polk & Co.

FINDINGS

164 NORWOOD AVE

Year	Uses	Source
2005	BROWN James H 2D	Haines Company, Inc.
	HUNTJess Ica	Haines Company, Inc.
	SEFACINC SINGH Ranblr	Haines Company, Inc.

4710 NORWOOD AVE

Year	Uses	Source
2017	AUDRA FERGUSON	Cole Information Services
2014	AUDRA FERGUSON	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	FERGUSON Palnc	Haines Company, Inc.
2004	AUDRA FERGUSON	Cole Information Services
1999	FERGUSON Patricia	Haines & Company
1995	FERGUSON Patricia	Pacific Bell
1994	FERGUSON, P	Cole Information Services
1991	Ferguson Patricia	Pacific Bell
1980	Ferguson Robt L	R. L. Polk & Co.
1975	Ferguson Robt L	R. L. Polk & Co.
1970	Ferguson Robt L	Sacramento Directory Co.
1965	Ferguson Robt L	Sacramento Directory Co. Publishers

4720 NORWOOD AVE

Year	Uses	Source
1965	No Return	Sacramento Directory Co. Publishers

4725 NORWOOD AVE

Year	Uses	Source
2005	$CHRISTOPHERSON	Haines Company, Inc.
	Betty	Haines Company, Inc.
1999	CHRISTOPHERS Betty	Haines & Company
1980	Meakins Violet Mrs	R. L. Polk & Co.
1975	Meeker Violet Mrs	R. L. Polk & Co.
1970	Meakins Homer C	Sacramento Directory Co.

FINDINGS

4769 NORWOOD AVE

Year	Uses	Source
2014	RAVEENA PRASAD	Cole Information Services
2009	RAVEENA PRASAD	Cole Information Services
1999	RAVEENA PRASAD	Cole Information Services

4773 NORWOOD AVE

Year	Uses	Source
2017	DAVID RAKTHAY	Cole Information Services
2014	DAVID RAKTHAY	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	CONRAD Douglas	Haines Company, Inc.
2004	NATALIE CONRAD	Cole Information Services
	ROBLA PARK COMMUNITY ASSOC	Cole Information Services
	ROBLA PARK COMMUNITY ASCTN	Cole Information Services
1999	D CONRAD	Cole Information Services
	CONRAD Douglas	Haines & Company

4777 NORWOOD AVE

Year	Uses	Source
2017	KATHY WILSON	Cole Information Services
2014	MARIO GUIDO	Cole Information Services
2009	MARIO GUIDO	Cole Information Services
2005	GILL Ravinder	Haines Company, Inc.
2004	RAIWINDER GILL	Cole Information Services
1999	MARIO GUIDO	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	GILL Ravinder	Haines & Company

4781 NORWOOD AVE

Year	Uses	Source
2017	JOSE ROJAS	Cole Information Services
2014	JOSE ROJAS	Cole Information Services
2009	ROSA CALDERON	Cole Information Services
2005	ROJAS Jose	Haines Company, Inc.

FINDINGS

Year	Uses	Source
1999	SMEDLEY Belinda	Haines & Company
	OCCUPANT UNKNOWN	Cole Information Services

4785 NORWOOD AVE

Year	Uses	Source
2017	OCTIVO SANCHEZ	Cole Information Services
2014	OCTIVO SANCHEZ	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	SANCHEZOcavio	Haines Company, Inc.
2004	OCTAVIO SANCHEZ	Cole Information Services
1999	PHUONG Quoc Hung	Haines & Company
1995	PHUONG Quoc Hung	Pacific Bell
	PHYKITT Elaine S P O Box	Pacific Bell
1994	PHUONG, QUOC H	Cole Information Services
1991	Phuong Quoc Hung	Pacific Bell

4789 NORWOOD AVE

Year	Uses	Source
2017	YANG PAN	Cole Information Services
2014	SHARON DONNELL	Cole Information Services
2009	ANIL KHALRI	Cole Information Services
2005	CORTNEYCynthia	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	ANIL KHALRI	Cole Information Services
	GORDON R	Haines & Company
	BOLA Parminder	Haines & Company
1991	Banga Satnam S	Pacific Bell

4793 NORWOOD AVE

Year	Uses	Source
2017	DONAE HANIBLE	Cole Information Services
2014	DONAE HANIBLE	Cole Information Services
2009	DONAE HANIBLE	Cole Information Services
2005	HANIBLEDonae	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2004	DONAE HANIBLE	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	HANIBLE Donae	Haines & Company

4797 NORWOOD AVE

Year	Uses	Source
2017	ERIBERTO MANZANO	Cole Information Services
2014	MONIQUE DANIEL	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	SINGHSw am	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	SINGH Sw arn	Haines & Company
1991	Sw arn Singh	Pacific Bell

SEA ANCHOR CT

5 SEA ANCHOR CT

Year	Uses	Source
2017	JOSE TORRES	Cole Information Services
2014	JOSE TORRES	Cole Information Services
2009	JOSE TORRES	Cole Information Services
2005	TORRESJose J	Haines Company, Inc.
2004	JOSE TORRES	Cole Information Services
1999	JOSE TORRES	Cole Information Services

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Year	Uses	Source
2017	HASIRAN SINGH	Cole Information Services
2014	CHAZVEER SINGH	Cole Information Services
2009	HARRIETT ALBERT	Cole Information Services
2005	SPARRJIm	Haines Company, Inc.
2004	SCOTT MCINTYRE	Cole Information Services
1999	HARRIETT ALBERT	Cole Information Services

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7 SEA ANCHOR CT

Year	Uses	Source
2004	SENATE BARBARA BOXER I ST	Cole Information Services

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Year	Uses	Source
2017	MELVIN MARSHALL	Cole Information Services
2014	MELVIN MARSHALL	Cole Information Services
2009	EUNICE MARSHALL	Cole Information Services
2005	MARSHALLEunice	Haines Company, Inc.
2004	EUNICE MARSHALL	Cole Information Services
	SECRET SERVICE LOCAL FIELD OFC	Cole Information Services
1999	STEVENS Karen	Haines & Company

10 SEA ANCHOR CT

Year	Uses	Source
2017	TIFFANY ALBERTS	Cole Information Services
2014	JOHN WOOLCOTT	Cole Information Services
2009	JOHN WOOLCOTT	Cole Information Services
2005	C OWOOLCOTTJohn	Haines Company, Inc.
2004	JOHN WOOLCOTT	Cole Information Services
1999	JOHN WOOLCOTT	Cole Information Services

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Year	Uses	Source
2004	3291 TRUXEL RD	Cole Information Services

14 SEA ANCHOR CT

Year	Uses	Source
2017	MICHAELA COLLINS	Cole Information Services
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	COY WOMACK	Cole Information Services
2005	SDEMONTELJacqueline	Haines Company, Inc.
2004	JOSEPH RAMIREZ	Cole Information Services
1999	COY WOMACK	Cole Information Services
1991	Mayer S M	Pacific Bell

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15 SEA ANCHOR CT

Year	Uses	Source
2017	ROXANNE HARDENBURGH	Cole Information Services
2014	ROXANNE HARDENBURGH	Cole Information Services
2009	ROXANNE HARDENBURGH	Cole Information Services
2005	Roxannae	Haines Company, Inc.
	OHARDENBURGH	Haines Company, Inc.
2004	ROXANNE HARDENBURCH	Cole Information Services

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Year	Uses	Source
2014	JENNIFER YORK	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2005	XXXX	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1991	Pronto Cleaning Services	Pacific Bell
	Rincon Carlos & Tina	Pacific Bell

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
10 SEAANCHOR CT	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
10 SEAANCHOR CT	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
12 SEAANCHOR CT	2017, 2014, 2009, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
14 SEAANCHOR CT	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
14 SEAANCHOR CT	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
15 SEAANCHOR CT	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
15 SEAANCHOR CT	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
164 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
17 NORWOOD AVE	2017, 2014, 2009, 2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
18 SEAANCHOR CT	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
18 SEAANCHOR CT	2017, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
224 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
224 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
228 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
228 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
229 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
229 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
232 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

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Address Researched	Address Not Identified in Research Source
232 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
233 DELTA LEAF WAY	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
233 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
236 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
236 DELTA LEAF WAY	2017, 2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
237 DELTA LEAF WAY	2014, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
237 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
240 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
240 DELTA LEAF WAY	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
241 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
241 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
244 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
244 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
245 DELTA LEAF WAY	2017, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
245 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
248 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
248 DELTA LEAF WAY	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
249 DELTA LEAF WAY	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
249 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
252 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
252 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
256 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

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Address Researched	Address Not Identified in Research Source
256 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
260 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
260 DELTA LEAF WAY	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
264 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
264 DELTA LEAF WAY	2017, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
268 DELTA LEAF WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
268 DELTA LEAF WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
272 DELTA LEAF WAY	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
276 DELTA LEAF WAY	2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
280 DELTA LEAF WAY	2017, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
283 DELTA LEAF WAY	2009, 2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
284 DELTA LEAF WAY	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
287 DELTA LEAF WAY	2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
291 DELTA LEAF WAY	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
295 DELTA LEAF WAY	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
348 MAIN AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
348 MAIN AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
354 MAIN ST	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
366 MAIN AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
366 MAIN AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
368 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
368 MUNICIPAL DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

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Address Researched	Address Not Identified in Research Source
372 MAIN AVE	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
372 MAIN AVE	2005, 2002, 1999, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
374 MUNICIPAL DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
374 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
375 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
375 MUNICIPAL DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
378 MAIN AVE	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
378 MAIN AVE	2017, 2014, 2009, 2004, 2002, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
379 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
379 MUNICIPAL DR	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
380 MUNICIPAL DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
380 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
384 MAIN AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
384 MAIN AVE	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
385 MUNICIPAL DR	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
385 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
386 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
386 MUNICIPAL DR	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
391 MUNICIPAL DR	2017, 2014, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
391 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
392 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
392 MUNICIPAL DR	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
395 MUNICIPAL DR	2005, 2002, 1999, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
395 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
398 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
398 MUNICIPAL DR	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
399 MUNICIPAL DR	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
399 MUNICIPAL DR	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
400 MAIN AVE	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
401 MAIN AVE	2017, 2014, 2009, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
406 MAIN ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
408 MAIN AVE	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
412 MAIN AVE W	2017, 2014, 2009, 2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
414 MAIN AVE	2017, 2014, 2009, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
424 MAIN AVE	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
424 MAIN AVE	2017, 2014, 2009, 2005, 2004, 2002, 1994, 1982, 1966, 1965, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
427 MAIN ST	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
436 MAIN AVE	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1966, 1965, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
436 MAIN AVE	2005, 2002, 1999, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
444 MAIN AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1982, 1966, 1965, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
444 MAIN AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
447 MAIN AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
447 MAIN AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1966, 1965, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
448 MAIN AVE	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1966, 1965, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

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Address Researched	Address Not Identified in Research Source
448 MAIN AVE	2017, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
448 MAIN ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
451 MAIN AVE	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1966, 1965, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
451 MAIN AVE	2017, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
451 MAIN ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
454 MAIN ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
460 MAIN ST	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
461 MAIN ST	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
470 MAIN ST	2017, 2014, 2009, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4710 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1966, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4710 NORWOOD AVE	2005, 2002, 1999, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4720 NORWOOD AVE	2017, 2014, 2009, 2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4725 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4769 NORWOOD AVE	2017, 2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4773 NORWOOD AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4773 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4777 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4777 NORWOOD AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4781 NORWOOD AVE	2005, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4781 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4783 JUSTICE ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4783 JUSTICE ST	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

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Address Researched	Address Not Identified in Research Source
4784 JUSTICE ST	2009, 2005, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4784 JUSTICE ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4785 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4785 NORWOOD AVE	2005, 2002, 1999, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4787 JUSTICE ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4787 JUSTICE ST	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4788 JUSTICE ST	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4788 JUSTICE ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4789 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4789 NORWOOD AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4791 JUSTICE ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4791 JUSTICE ST	2017, 2014, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4792 JUSTICE ST	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4792 JUSTICE ST	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4793 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4793 NORWOOD AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4797 NORWOOD AVE	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4797 NORWOOD AVE	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4800 DRY DOCK WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4800 DRY DOCK WAY	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4801 DRY DOCK WAY	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4801 DRY DOCK WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4810 DRY DOCK WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4810 DRY DOCK WAY	2009, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4811 DRY DOCK WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4811 DRY DOCK WAY	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4820 DRY DOCK WAY	2017, 2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4820 DRY DOCK WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4830 DRY DOCK WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4830 DRY DOCK WAY	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4831 DRY DOCK WAY	2005, 2002, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
4831 DRY DOCK WAY	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
5 SEAANCHOR CT	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
5 SEAANCHOR CT	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
6 SEAANCHOR CT	2005, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
6 SEAANCHOR CT	2017, 2014, 2009, 2004, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
7 SEAANCHOR CT	2017, 2014, 2009, 2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
9 SEAANCHOR CT	2005, 2002, 1999, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920
9 SEAANCHOR CT	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
4790 Norwood Avenue	2017, 2014, 2009, 2004, 2002, 1995, 1994, 1991, 1982, 1966, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

APPENDIX F

Site Owner/Occupant Questionnaire

The following questions are for: (1) the current owner of the property, (2) any major occupant of the property or, if the property does not have any major occupants, at least 10% of the occupants of the property, and (3) in addition to the current owner and the occupants identified in (2), any occupant likely to be using, treating, generating, storing, or disposing of hazardous substances and/or petroleum products on or from the property. A major occupant is any occupant using at least 40% of the leasable area of the property or any anchor tenant when the property is a shopping center. In a multi-family property containing both residential and commercial uses, residential occupants do not need to respond to this questionnaire unless they are involved in or have knowledge of the commercial or other uses.

Address: 4790 Hobbood Ave.
Description of Site: FLAT VACANT SITE W/ A FEW TREES

Question	Owner			Occupants (if applicable)		
1a. Is the property used for an industrial use?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
1b. Is any adjoining property used for an industrial use?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
2a. Have you observed evidence of or do you have any knowledge that the property has been used for an industrial use in the past?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
2b. Have you observed evidence of or do you have any knowledge that any adjoining property has been used for an industrial use in the past?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
3a. Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
3b. Is any adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						

Question	Owner			Occupants (if applicable)		
4a. Have you observed evidence of or do you have any knowledge that the property was previously used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
4b. Have you observed evidence of or do you have any knowledge that any adjoining property was previously used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
5a. Are there currently any damaged or discarded automotive or industrial batteries, petroleum products, pesticides, paints or other chemicals in individual containers of > 5gal (19L) in volume or 50gal (190L) in the aggregate, stored on or used at the property or facility?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
5b. Have you observed evidence of or do you have any knowledge that there have been previously any damaged or discarded automotive or industrial batteries, petroleum products, pesticides, paints or other chemicals in individual containers of > 5gal (19L) in volume or 50gal (190L) in the aggregate, stored on or used at the property or facility?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
6a. Are there currently any industrial drums (typically 55 gal [208L]) or sacks of chemicals located on the property or at the facility?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
6b. Have you observed evidence of or do you have any knowledge that there have been previously any industrial drums (typically 55 gal [208L]) or sacks of chemicals located on the property or at the facility?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
7a. Have you observed evidence of or do you have any knowledge that fill dirt has been brought onto the property that originated from a contaminated site?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						

7b. Have you observed evidence of or do you have any knowledge that fill dirt has been brought onto the property that is of an unknown origin?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
8a. Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or disposal?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
8b. Have you observed evidence of or do you have any knowledge that there have been previously any pits, ponds, or lagoons located on the property in connection with waste treatment or disposal?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
9a. Is there currently any stained soil on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
9b. Have you observed evidence of or do you have any knowledge that there has been previously any stained soil on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
10a. Are there currently any registered or unregistered storage tanks (aboveground or underground) located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
10b. Have you observed evidence of or do you have any knowledge that there have been previously any registered or unregistered storage tanks (aboveground or underground) located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
11a. Are there currently any vent pipe, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
11b. Have you observed evidence of or do you have any knowledge that there have been previously any vent pipe, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						

12a. Are there currently any flooring, drains, or walls located within the facility that are stained by substances other than water or were emitting foul odors?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
12b. Have you observed evidence of or do you have any knowledge that there have been previously any flooring, drains, or walls located within the facility that are stained by substances other than water or were emitting foul odors?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
13a. If the property is served by a private well or non-public water system, is there evidence of or do you have knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
13b. If the property is served by a private well or non-public water system, is there evidence of or do you have knowledge that the well has been designated as contaminated by any government/health agency?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
14. Do you have any knowledge of environmental liens of governmental notification relating to past or recurrent violations of environmental laws with respect to the property or any facility located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
15a. Have you been informed of the past existence of hazardous substances and/or petroleum products with respect to the property or any facility located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
15b. Have you been informed of the current existence of hazardous substances and/or petroleum products with respect to the property or any facility located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
15c. Have you been informed of the past existence of environmental violations with respect to the property or any facility located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
15d. Have you been informed of the current existence of environmental violations with respect to the property or any facility located on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						

16. Do you have any knowledge of any environmental site assessment of the property or facility that indicated the presence of hazardous substances and/or petroleum products on, or contamination of, the property or recommended further assessment of the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
17. Do you know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any hazardous substances and/or petroleum products involving the property by any owner or occupant of the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
18a. Does the property discharge wastewater, on or adjacent to the property, other than stormwater, into a stormwater sewer system?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
18b. Does the property discharge wastewater, on or adjacent to the property, other than stormwater, into a sanitary sewer system?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
19. Have you observed evidence of or do you have any knowledge that any hazardous substances and/or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the property?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are records indicating the presence of PCBs?	Yes	No X	Unk	Yes	No	Unk
Explain if yes:						

Unk – "unknown" or "no response"

Additional Questions

A) Describe the current use of the property.

VACANT

B) How long has the property been used for this purpose?

20+ YEARS

C) How long have you owned the property?

9+ YEARS

D) List the existing structures on the property and their age.

N/A

E) Describe the past uses, owners, and operators of the property. (Be as detailed as possible and note approximate time periods.)

This questionnaire was completed by:

Name: DAVID COBBS

Title:

Address: 6020 PUTNAM DR. #19 CARMICHAEL 95608

Phone number: 916 331 4336

Date:

APPENDIX F
NORWOOD TOWNHOMES VMT ANALYSIS MEMO

TJKM VISION THAT MOVES YOUR COMMUNITY

TECHNICAL MEMORANDUM

Date:	April 14, 2022		
To:	Angela DaRosa, Raney Planning	*Project No.:*	041-105 Norwood Townhomes VMT
From:	Arthur Chen, TJKM	*Jurisdiction:*	City of Sacramento
Subject:	**Norwood Townhomes VMT Analysis Memo**		

TJKM conducted a VMT (Vehicle Miles Traveled) analysis for the proposed Norwood Townhomes residential project. The project is located in north Sacramento and consists of 48 single family housing units on a site in the southwest corner of Norwood Ave and Main Ave. The project is not proposing to change the existing General Plan land use designation of Residential High Density or existing Zoning of R-1-12. SB743 requires all land use projects subject to CEQA analyze VMT impacts and determine whether the project has a significant or insignificant impact.

The current practice of the City of Sacramento utilizes the City's Transportation Impact Analysis Guidelines (dated September 10, 2020). Therefore, these guidelines have been used for purposes of this analysis. The City's guidelines state that residential land uses should utilize the VMT per capita metric.

For VMT forecasting, the Sacramento City/County Transportation Analysis Guidelines (09/10/2020, page 16) recommends that the estimated VMT for a proposed project be obtained by:

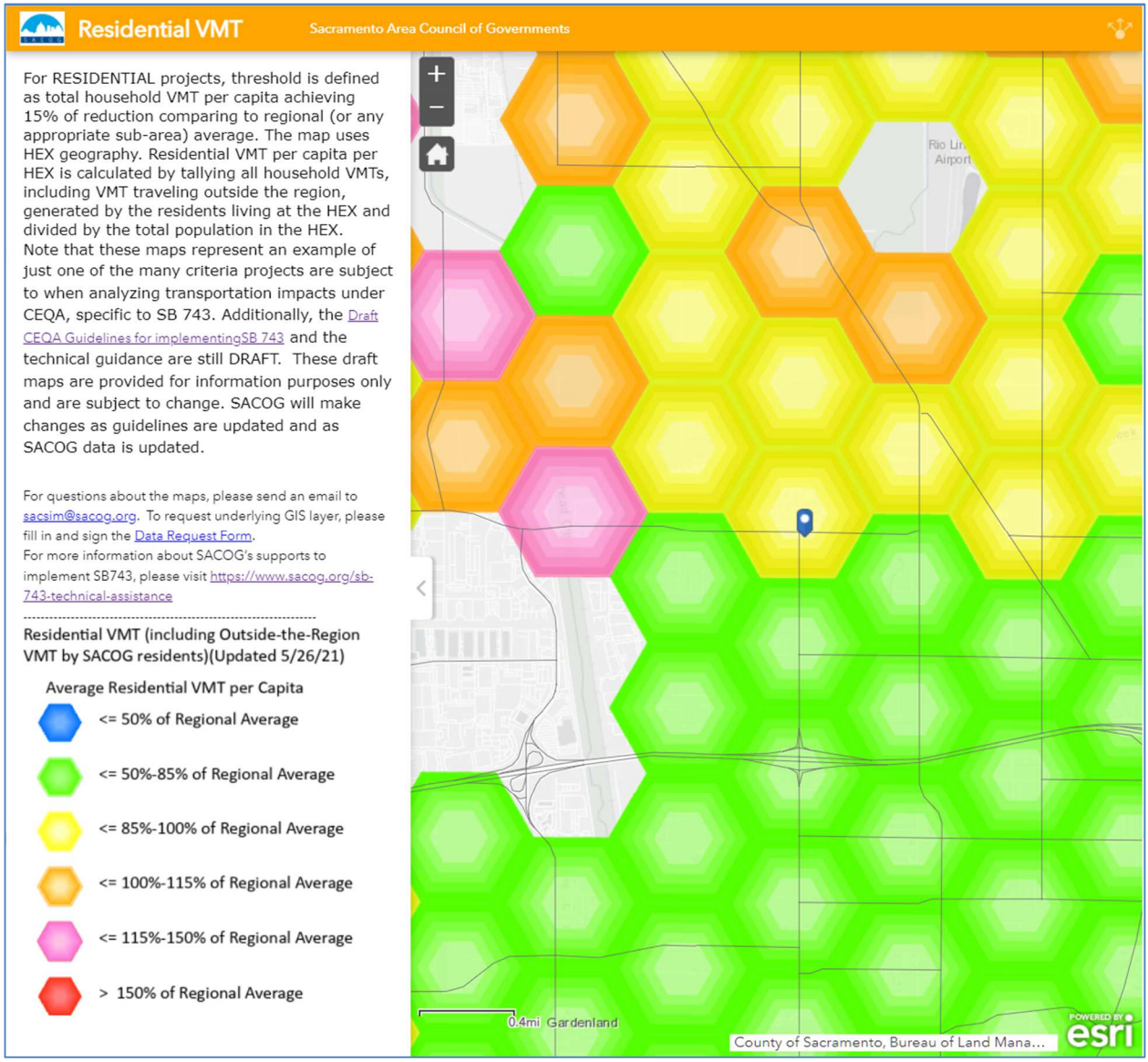
> *Use of a "regional" transportation model, either by running the model directly to estimate VMT with and without the project (for large projects) or through use of screening methodologies (for small projects). The transportation model used for VMT estimation could either be the SACOG regional model (SACSIM19) or one of the many variants of the regional model developed by local agencies to provide more detailed analysis within their jurisdictions. If one of the local models is used, it should be sufficiently documented and maintained. Any edits to the model's network must be fully described and should only be made at the project site to 1) ensure that site access for the proposed project is properly represented in the model and 2) any changes in roadways, bikeways or transit networks that are part the proposed project is reflected.*

VMT impacts would be considered significant if daily VMT exceeds the following threshold:

- 15.0 VMT per resident for the base year

For projects greater than 20 dwelling units, the guidelines require a travel demand model run to be conducted. First, the project is checked with the Sacramento Area Council of Governments (SACOG) residential VMT screening maps to make sure that the project is located in a travel analysis zone that is non-exempt from VMT analysis. Figure 1 shows the project's location on the SACOG online screening map.

Figure 1 – SACOG SACSIM Residential VMT Screening Map for Norwood



The project is located in a zone that has slightly higher VMT per capita than the 85% significance threshold. Thus, a SACSIM run is required for this project.

The project is located in TAZ #238 of the SACSIM model. 48 households were added into TAZ #238 for the 2016 model base year and the model was run to analyze existing plus project conditions VMT per capita. Table 1 shows the VMT per capita associated with the Norwood Townhomes project when modeled.

Table 1 – Residential VMT per Capita – Norwood Townhomes

TAZ	VMT per Capita		
	Existing Conditions	Impact Threshold	Existing plus Project Conditions
238	15.03	15.00	14.80

Currently, in the base year SACSIM model TAZ #238 has a VMT per capita of 15.03. Running the model with the Norwood Townhomes project coded in results in a decrease of VMT per capita to **14.80**. Since 14.80 is lower than the impact threshold of 15.00, VMT impacts associated with the Norwood Townhomes project are considered to be insignificant.

Appendix A contains the VMT outputs from the SACSIM model for TAZ #238.

Appendix A
SACSIM VMT Outputs

TAZ #238 No Project VMT Output

TAZ	Households	Population	Tot_RES_VMT	Res_VMT_Capita
238	1242	3813	57309.39	15.03

TAZ #238 with Project VMT Output

TAZ	Households	Population	Tot_RES_VMT	Res_VMT_Capita
238	1290	3960	58613.36	14.80