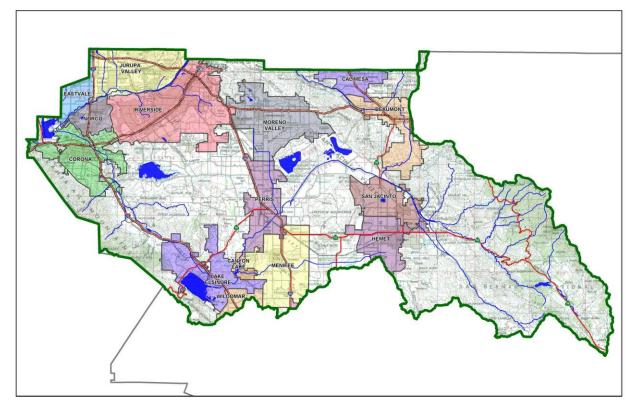
DRAFT

Project Specific Water Quality Management Plan

A Template for Projects located within the Santa Ana Watershed Region of Riverside County

Project Title: Duke Patterson & Nance

Development No: P21-00005



Preliminary

Original Date Prepared: April 2021

Revision Date(s): March 2022, October 2021

Prepared for Compliance with Regional Board Order No. <u>R8-2010-0033</u> <u>Template revised June 30, 2016</u>

Contact Information:

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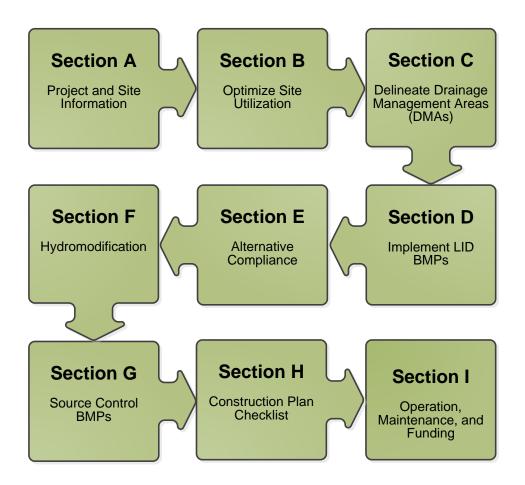
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A Brief Introduction

This Project-Specific WQMP Template for the **Santa Ana Region** has been prepared to help guide you in documenting compliance for your project. Because this document has been designed to specifically document compliance, you will need to utilize the WQMP Guidance Document as your "how-to" manual to help guide you through this process. Both the Template and Guidance Document go hand-in-hand and will help facilitate a well prepared Project-Specific WQMP. Below is a flowchart for the layout of this Template that will provide the steps required to document compliance.



OWNER'S CERTIFICATION

This Project-Specific Water Quality Management Plan (WQMP) has been prepared for Duke Realty Corporation by Albert A. Webb Associates for the Duke Patterson & Nance project (P21-00005).

This WQMP is intended to comply with the requirements of City of Perris for Water Quality Ordinance No. 1194 which includes the requirement for the preparation and implementation of a Project-Specific WQMP.

The undersigned, while owning the property/project described in the preceding paragraph, shall be responsible for the implementation and funding of this WQMP and will ensure that this WQMP is amended as appropriate to reflect up-to-date conditions on the site. In addition, the property owner accepts responsibility for interim operation and maintenance of Stormwater BMPs until such time as this responsibility is formally transferred to a subsequent owner. This WQMP will be reviewed with the facility operator, facility supervisors, employees, tenants, maintenance and service contractors, or any other party (or parties) having responsibility for implementing portions of this WQMP. At least one copy of this WQMP will be maintained at the project site or project office in perpetuity. The undersigned is authorized to certify and to approve implementation of this WQMP. The undersigned is aware that implementation of this WQMP is enforceable under City of Perris Water Quality Ordinance (Municipal Code Section 1194).

"I, the undersigned, certify under penalty of law that the provisions of this WQMP have been reviewed and accepted and that the WQMP will be transferred to future successors in interest."

Owner's Signature

Date

Owner's Printed Name

Owner's Title/Position

PREPARER'S CERTIFICATION

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan meet the requirements of Regional Water Quality Control Board Order No. **R8-2010-0033** and any subsequent amendments thereto."

DRAFT

Preparer's Signature

Scott Hildebrandt Preparer's Printed Name

Preparer's Licensure:

Date

Chief Strategy Officer Preparer's Title/Position



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Section A: Project and Site Information

PROJECT INFORMATION			
Type of Project:	Commercial/Industrial		
Planning Area:	Mead Valley Area Plan		
Community Name:	Perris Valley Commerce Center (PVCC) Specific Plan		
Development Name:	Duke Patterson & Nance		
PROJECT LOCATION			
Latitude & Longitude (DMS):	33°51′24.61″, -117°15′01.13″		
Project Watershed and Sub-V	Natershed: Santa Ana, San Jacinto Valley		
Gross Acres: 35.6 AC			
APN(s): 314-153-015 to 314-2	153-040, 314-153-042, 314-153-044, 314-153-046, 314-153-048,		
314-160-003 to 314-1			
Map Book and Page No.: Tho	mas Bros. Map: Page 747, Grid D7		
PROJECT CHARACTERISTICS			
Proposed or Potential Land U	Jse(s)	Comme	ercial/Industrial
Proposed or Potential SIC Cod	de(s) 1541 (General Cont	ractors-Ir	ndustrial Building)
	4225 (General Ware	housing	& Storage)
Area of Impervious Project Fo	ootprint (SF)	1,388,8	80
Total Area of proposed Imper	rvious Surfaces within the Project Footprint (SF)/or Replacement	1,388,8	80
Does the project consist of of	ffsite road improvements?	🛛 Ү	🗌 N
Does the project propose to	construct unpaved roads?	□ Y	🖂 N
Is the project part of a larger	common plan of development (phased project)?	Y	🖂 N
EXISTING SITE CHARACTERISTICS			
Total area of existing Impervi	ious Surfaces within the Project limits Footprint (SF)	0	
Is the project located within a	any MSHCP Criteria Cell?	Ο Υ	N 🛛
If so, identify the Cell numbe	r:	N/A	
Are there any natural hydrolo	ogic features on the project site?	Ο Υ	N 🛛
Is a Geotechnical Report atta	ched?	🛛 Ү	🗌 N
If no Geotech. Report, list the	e NRCS soils type(s) present on the site (A, B, C and/or D)	N/A	
What is the Water Quality De	esign Storm Depth for the project?	0.62	

A.1 Project Description

The Duke Patterson & Nance Project is located south of Harley Knox Boulevard, north of Nance Street, and situated between Patterson Avenue and Nevada Avenue. The existing land use is mostly vacant and barren with minimal vegetative scrub. There is an existing pervious area in the northwest corner that seems to be an area where container trailers are stored. The trailers will be moved and none of the existing buildings between the northerly property boundary and Harley Knox Boulevard will be demolished. The existing topography slopes approximately 1.0% in a southwest to northeast direction. Existing elevations range from approximately 1499 in the southwest corner to 1486 in the northeast corner (NAVD88). The existing drainage path is characterized by sheet flows that follow the existing topography.

The planned site condition will propose a commercial/ industrial warehouse (approximately 760,000 square-feet) on roughly 35.6 acres. The project proposes truck and auto parking as well as 10% of

landscaped area. All on-site flows generated from the project will be collected by proposed underground chambers located within the easternmost drive aisle. The underground chambers are designed to fully store the water quality volume which will then be pumped into a Contech Bioscape modular wetland for treatment. All high intensity flows will overflow into a high flow bypass within the underground chambers and gravity flow north to an existing Caltrans RCB via Lat-B6.1 in Nevada Avenue. The project will be impacted by offsite flows. The proposed project is within an HCOC exemption area. Proposed land use flowrates will not be required to match existing land use flowrates.

A.2 Maps and Site Plans

When completing your Project-Specific WQMP, include a map of the local vicinity and existing site. In addition, include all grading, drainage, landscape/plant palette and other pertinent construction plans in Appendix 2. At a **minimum**, your WQMP Site Plan should include the following:

- Drainage Management Areas
- Proposed Structural BMPs
- Drainage Path
- Drainage Infrastructure, Inlets, Overflows
- Source Control BMPs
- Buildings, Roof Lines, Downspouts
- Impervious Surfaces
- Standard Labeling
- BMP Locations (Lat/Long)

Use your discretion on whether or not you may need to create multiple sheets or can appropriately accommodate these features on one or two sheets. Keep in mind that the Co-Permittee plan reviewer must be able to easily analyze your project utilizing this template and its associated site plans and maps.

A.3 Identify Receiving Waters

Using Table A.1 below, list in order of upstream to downstream, the receiving waters that the project site is tributary to. Continue to fill each row with the Receiving Water's 303(d) listed impairments (if any), designated beneficial uses, and proximity, if any, to a RARE beneficial use. Include a map of the receiving waters in Appendix 1.

Receiving Waters	EPA Approved 303(d) List Impairments	Designated Beneficial Uses	Proximity to RARE Beneficial Use
Perris Valley Storm Drain Channel	None	None	Not a water body classified as RARE
San Jacinto River (Reach 3) (HU# 802.11)	None	Intermittent: MUN, AGR, GWR, REC1, REC2, WARM, WILD	Not a water body classified as RARE
San Jacinto River (Reach 2) (HU# 802.11)	None	Intermittent: MUN, AGR, GWR, REC1, REC2, WARM, WILD	Not a water body classified as RARE
Canyon Lake (HU# 802.11, 802.12)	Nutrients, Pathogens	MUN, AGR, GWR, REC1, REC2, WARM, WILD	Not a water body classified as RARE
San Jacinto River (Reach 1) (HU# 802.31, 802.32)	None	MUN, AGR, GWR, REC1, REC2, WARM, WILD	Not a water body classified as RARE
Lake Elsinore (HU# 802.31)	PCBs, (Organic Compound), Nutrients, Organic Enrichment (Low DO), Sediment Toxicity, Unknown Toxicity	REC1, REC2, WARM, WILD	Not a water body classified as RARE

A.4 Additional Permits/Approvals required for the Project:

 Table A.2 Other Applicable Permits

Agency	Permit Re	quired
State Department of Fish and Game, 1602 Streambed Alteration Agreement	□ Y	N 🛛
State Water Resources Control Board, Clean Water Act (CWA) Section 401 Water Quality Cert.	□ Y	N 🛛
US Army Corps of Engineers, CWA Section 404 Permit	□ Y	N 🛛
US Fish and Wildlife, Endangered Species Act Section 7 Biological Opinion	□ Y	N
Statewide Construction General Permit Coverage	X Y	N
Statewide Industrial General Permit Coverage (Dependent on Tenant)	X Y	Z
Western Riverside MSHCP Consistency Approval (e.g., JPR, DBESP)	□ Y	N
Other (please list in the space below as required) Grading	X Y	N

If yes is answered to any of the questions above, the Co-Permittee may require proof of approval/coverage from those agencies as applicable including documentation of any associated requirements that may affect this Project-Specific WQMP.

Section B: Optimize Site Utilization (LID Principles)

Review of the information collected in Section 'A' will aid in identifying the principal constraints on site design and selection of LID BMPs as well as opportunities to reduce imperviousness and incorporate LID Principles into the site and landscape design. For example, **constraints** might include impermeable soils, high groundwater, groundwater pollution or contaminated soils, steep slopes, geotechnical instability, high-intensity land use, heavy pedestrian or vehicular traffic, utility locations or safety concerns. **Opportunities** might include existing natural areas, low areas, oddly configured or otherwise unbuildable parcels, easements and landscape amenities including open space and buffers (which can double as locations for bioretention BMPs), and differences in elevation (which can provide hydraulic head). Prepare a brief narrative for each of the site optimization strategies described below. This narrative will help you as you proceed with your LID design and explain your design decisions to others.

The 2010 Santa Ana MS4 Permit further requires that LID Retention BMPs (Infiltration Only or Harvest and Use) be used unless it can be shown that those BMPs are infeasible. Therefore, it is important that your narrative identify and justify if there are any constraints that would prevent the use of those categories of LID BMPs. Similarly, you should also note opportunities that exist which will be utilized during project design. Upon completion of identifying Constraints and Opportunities, include these on your WQMP Site plan in Appendix 1.

Consideration of "highest and best use" of the discharge should also be considered. For example, Lake Elsinore is evaporating faster than runoff from natural precipitation can recharge it. Requiring infiltration of 85% of runoff events for projects tributary to Lake Elsinore would only exacerbate current water quality problems associated with Pollutant concentration due to lake water evaporation. In cases where rainfall events have low potential to recharge Lake Elsinore (i.e. no hydraulic connection between groundwater to Lake Elsinore, or other factors), requiring infiltration of Urban Runoff from projects is counterproductive to the overall watershed goals. Project proponents, in these cases, would be allowed to discharge Urban Runoff, provided they used equally effective filtration-based BMPs.

Site Optimization

The following questions are based upon Section 3.2 of the WQMP Guidance Document. Review of the WQMP Guidance Document will help you determine how best to optimize your site and subsequently identify opportunities and/or constraints, and document compliance.

Did you identify and preserve existing drainage patterns? If so, how? If not, why?

The natural drainage patterns have generally been preserved. The proposed site conveys flow to the east into the proposed underground chambers, and then to the north into MDP Lateral B.

Did you identify and protect existing vegetation? If so, how? If not, why?

The existing project site is mostly vacant with little to no vegetative scrub. Dense vegetation areas with established trees do not exist.

Did you identify and preserve natural infiltration capacity? If so, how? If not, why?

Per the attached infiltration and geotechnical reports, the recommended design infiltration rate is 0.2 in/hr. This is below the recommended 1.6 in/hr for infiltration BMPs; therefore infiltration is not feasible for this site.

Did you identify and minimize impervious area? If so, how? If not, why?

Impervious areas were minimized given the proposed site usage and required parameters.

Did you identify and disperse runoff to adjacent pervious areas? If so, how? If not, why?

Runoff will be routed towards the proposed underground chambers. Self-retaining areas will retain a portion of water quality runoff.

Section C: Delineate Drainage Management Areas (DMAs)

Utilizing the procedure in Section 3.3 of the WQMP Guidance Document which discusses the methods of delineating and mapping your project site into individual DMAs, complete Table C.1 below to appropriately categorize the types of classification (e.g., Type A, Type B, etc.) per DMA for your project site. Upon completion of this table, this information will then be used to populate and tabulate the corresponding tables for their respective DMA classifications.

Table C.1 DMA Classifications

DMA Name or ID	Surface Type(s) ¹²	Area (Sq. Ft.)	DMA Type
L-A	LANDSCAPE	108,920	D
R-A	ROOF	759,600	D
H-A	HARDSCAPE	629,280	D
BMP-A	LANDSCAPE	200	D
SR-A	LANDSCAPE	23,740	В
SELF-TREATING LANDSCAPE		31,090	A

¹Reference Table 2-1 in the WQMP Guidance Document to populate this column

²If multi-surface provide back-up

Table C.2 Type 'A', Self-Treating Areas

DMA Name or ID	Area (Sq. Ft.)	Stabilization Type	Irrigation Type (if any)
SELF-TREATING	31,090	LANDSCAPE	DRIP

Table C.3 Type 'B', Self-Retaining Areas

			Type 'C' DMAs that are draining to the Self-Retaining Area			
DMA Name/ ID	Post-project surface type	Area (square	Storm Depth (inches) [B]	DMA Name / ID	[C] from Table C.4 =	Required Retention Depth (inches) [D]
SR-A		23,740	0.62	-	-	0.62

$$[D] = [B] + \frac{[B] \cdot [C]}{[A]}$$

DMA				Receiving Self-F	Retaining DMA		
DMA Name/ ID	S Area (square feet)	Post-project surface type		Product [C] = [A] x [B]		Area (square feet) [D]	Ratio [C]/[D]
	[^]	Pr Su	[0]	[C] – [A] × [D]	DMA name /ID	[0]	

Table C.4 Type 'C', Areas that Drain to Self-Retaining Areas

Table C.5 Type 'D', Areas Draining to BMPs

DMA Name or ID	BMP Name or ID				
L-A					
R-A	BMP-A				
H-A					

<u>Note</u>: More than one drainage management area can drain to a single LID BMP, however, one drainage management area may not drain to more than one BMP.

Section D: Implement LID BMPs

D.1 Infiltration Applicability

Is there an approved downstream 'Highest and Best Use' for stormwater runoff (see discussion in Chapter 2.4.4 of the WQMP Guidance Document for further details)? \Box Y \bigotimes N

If yes has been checked, Infiltration BMPs shall not be used for the site; proceed to section D.3

If no, continue working through this section to implement your LID BMPs. It is recommended that you contact your Co-Permittee to verify whether or not your project discharges to an approved downstream 'Highest and Best Use' feature.

Geotechnical Report

A Geotechnical Report or Phase I Environmental Site Assessment may be required by the Copermittee to confirm present and past site characteristics that may affect the use of Infiltration BMPs. In addition, the Co-Permittee, at their discretion, may not require a geotechnical report for small projects as described in Chapter 2 of the WQMP Guidance Document. If a geotechnical report has been prepared, include it in Appendix 3. In addition, if a Phase I Environmental Site Assessment has been prepared, include it in Appendix 4.

Is this project classified as a small project consistent with the requirements of Chapter 2 of the WQMP Guidance Document? \Box Y \square N

Infiltration Feasibility

Table D.1 below is meant to provide a simple means of assessing which DMAs on your site support Infiltration BMPs and is discussed in the WQMP Guidance Document in Chapter 2.4.5. Check the appropriate box for each question and then list affected DMAs as applicable. If additional space is needed, add a row below the corresponding answer.

Table D.1 Infiltration Feasibility		
Does the project site	YES	NO
have any DMAs with a seasonal high groundwater mark shallower than 10 feet?		Х
If Yes, list affected DMAs:		
have any DMAs located within 100 feet of a water supply well?		Х
If Yes, list affected DMAs:		
have any areas identified by the geotechnical report as posing a public safety risk where infiltration of stormwater		Х
could have a negative impact?		
If Yes, list affected DMAs:		
have measured in-situ infiltration rates of less than 1.6 inches / hour?	х	
If Yes, list affected DMAs: DMA-A: 0.2 in/hr		
have significant cut and/or fill conditions that would preclude in-situ testing of infiltration rates at the final		Х
infiltration surface?		
If Yes, list affected DMAs:		
geotechnical report identify other site-specific factors that would preclude effective and safe infiltration?		Х
Describe here:		

If you answered "Yes" to any of the questions above for any DMA, Infiltration BMPs should not be used for those DMAs and you should proceed to the assessment for Harvest and Use below.

D.2 Harvest and Use Assessment

Please check what applies:

 \square Reclaimed water will be used for the non-potable water demands for the project.

 \Box Downstream water rights may be impacted by Harvest and Use as approved by the Regional Board (verify with the Copermittee).

□ The Design Capture Volume will be addressed using Infiltration Only BMPs. In such a case, Harvest and Use BMPs are still encouraged, but it would not be required if the Design Capture Volume will be infiltrated or evapotranspired.

If any of the above boxes have been checked, Harvest and Use BMPs need not be assessed for the site. If none of the above criteria applies, follow the steps below to assess the feasibility of irrigation use, toilet use and other non-potable uses (e.g., industrial use).

Irrigation Use Feasibility

Complete the following steps to determine the feasibility of harvesting stormwater runoff for Irrigation Use BMPs on your site:

Step 1: Identify the total area of irrigated landscape on the site, and the type of landscaping used.

Total Area of Irrigated Landscape: 3.8 acres

Type of Landscaping (Conservation Design or Active Turf): Conservation

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for irrigation use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces: 31.9 acres

Step 3: Cross reference the Design Storm depth for the project site (see Exhibit A of the WQMP Guidance Document) with the left column of Table 2-3 in Chapter 2 to determine the minimum area of Effective Irrigated Area per Tributary Impervious Area (EIATIA).

Enter your EIATIA factor: 1.05

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum irrigated area that would be required.

Minimum required irrigated area: 33.5 acres

Step 5: Determine if harvesting stormwater runoff for irrigation use is feasible for the project by comparing the total area of irrigated landscape (Step 1) to the minimum required irrigated area (Step 4).

 Minimum required irrigated area (Step 4)	Available Irrigated Landscape (Step 1)
 33.5 acres	3.8 acres

i.

Toilet Use Feasibility

Complete the following steps to determine the feasibility of harvesting stormwater runoff for toilet flushing uses on your site:

Step 1: Identify the projected total number of daily toilet users during the wet season, and account for any periodic shut downs or other lapses in occupancy:

Projected Number of Daily Toilet Users: 300-400

Project Type: Warehousing

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for toilet use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces: 31.9 acres

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2-2 in Chapter 2 to determine the minimum number or toilet users per tributary impervious acre (TUTIA).

Enter your TUTIA factor: 185

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum number of toilet users that would be required.

Minimum number of toilet users: 5,900

Step 5: Determine if harvesting stormwater runoff for toilet flushing use is feasible for the project by comparing the Number of Daily Toilet Users (Step 1) to the minimum required number of toilet users (Step 4).

Minimum required Toilet Users (Step 4)	Projected number of toilet users (Step 1)
5,900	400

Other Non-Potable Use Feasibility

Are there other non-potable uses for stormwater runoff on the site (e.g. industrial use)? See Chapter 2 of the Guidance for further information. If yes, describe below. If no, write N/A.

N/A

Step 1: Identify the projected average daily non-potable demand, in gallons per day, during the wet season and accounting for any periodic shut downs or other lapses in occupancy or operation.

Average Daily Demand: N/A

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for the identified non-potable use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces: N/A

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2 4 in Chapter 2 to determine the minimum demand for non-potable uses per tributary impervious acre.

Enter the factor from Table 2-4: N/A

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum number of gallons per day of non-potable use that would be required.

Minimum required use: N/A

Step 5: Determine if harvesting stormwater runoff for other non-potable use is feasible for the project by comparing the projected average daily use (Step 1) to the minimum required non-potable use (Step 4).

Minimum required non-potable use (Step 4)	Projected average daily use (Step 1)
N/A	N/A

If Irrigation, Toilet and Other Use feasibility anticipated demands are less than the applicable minimum values, Harvest and Use BMPs are not required and you should proceed to utilize LID Bioretention and Biotreatment per Section 3.4.2 of the WQMP Guidance Document.

D.3 Bioretention and Biotreatment Assessment

Other LID Bioretention and Biotreatment BMPs as described in Chapter 2.4.7 of the WQMP Guidance Document are feasible on nearly all development sites with sufficient advance planning.

Select one of the following:

⊠ LID Bioretention/Biotreatment BMPs will be used for some or all DMAs of the project as noted below in Section D.4 (note the requirements of Section 3.4.2 in the WQMP Guidance Document).

□ A site-specific analysis demonstrating the technical infeasibility of all LID BMPs has been performed and is included in Appendix 5. If you plan to submit an analysis demonstrating the technical infeasibility of LID BMPs, request a pre-submittal meeting with the Copermittee to discuss this option. Proceed to Section E to document your alternative compliance measures.

D.4 Feasibility Assessment Summaries

From the Infiltration, Harvest and Use, Bioretention and Biotreatment Sections above, complete Table D.2 below to summarize which LID BMPs are technically feasible, and which are not, based upon the established hierarchy.

Table D.2 LID Prioritization Summary Matrix									
		No LID (Alternative							
DMA									
Name/ID	1. Infiltration	2. Harvest and use	3. Bioretention	4. Biotreatment	Compliance)				
DMA-A				\boxtimes					

Table D.2 LID Prioritization Summary Matrix

For those DMAs where LID BMPs are not feasible, provide a brief narrative below summarizing why they are not feasible, include your technical infeasibility criteria in Appendix 5, and proceed to Section E below to document Alternative Compliance measures for those DMAs. Recall that each proposed DMA must pass through the LID BMP hierarchy before alternative compliance measures may be considered.

D.5 LID BMP Sizing

Each LID BMP must be designed to ensure that the Design Capture Volume will be addressed by the selected BMPs. First, calculate the Design Capture Volume for each LID BMP using the V_{BMP} worksheet in Appendix F of the LID BMP Design Handbook. Second, design the LID BMP to meet the required V_{BMP} using a method approved by the Copermittee. Utilize the worksheets found in the LID BMP Design Handbook or consult with your Copermittee to assist you in correctly sizing your LID BMPs. Complete Table D.3 below to document the Design Capture Volume and the Proposed Volume for each LID BMP. Provide the completed design procedure sheets for each LID BMP in Appendix 6. You may add additional rows to the table below as needed.

DMA Type/ID	DMA Area (square feet) [A]	Post-Project Surface Type	Effective Impervious Fraction, I _f [B]	DMA Runoff Factor	DMA Areas x Runoff Factor [A] x [C]		BMP-A		
L-A	108,920	LANDSCAPE	0.1	0.11	12,031.1				
R-A	759,600	ROOF	1.0	0.89	677,563.2				
H-A	629,280	HARDSCAPE	1.0	0.89	561,317.8				
BMP-A	200	LANDSCAPE	0.1	0.11	22.1	Design			
SR-A	23,740	LANDSCAPE					Capture		
SELF- TREATING	31,090	LANDSCAPE				Storm V _{BMP} Volume		Storm	Proposed Volume on Plans
						(in)	, feet)	(cubic feet)	
	1,552,830				1,250,934.2	0.62	64,631.6	64,650	

 Table D.3 DCV Calculations for LID BMPs

[B], [C] is obtained as described in Section 2.3.1 of the WQMP Guidance Document

[E] is obtained from Exhibit A in the WQMP Guidance Document

[G] is obtained from a design procedure sheet, such as in LID BMP Design Handbook and placed in Appendix 6

Section E: Alternative Compliance (LID Waiver Program)

LID BMPs are expected to be feasible on virtually all projects. Where LID BMPs have been demonstrated to be infeasible as documented in Section D, other Treatment Control BMPs must be used (subject to LID waiver approval by the Copermittee). Check one of the following Boxes:

 \boxtimes LID Principles and LID BMPs have been incorporated into the site design to fully address all Drainage Management Areas. No alternative compliance measures are required for this project and thus this Section is not required to be completed.

- Or -

□ The following Drainage Management Areas are unable to be addressed using LID BMPs. A sitespecific analysis demonstrating technical infeasibility of LID BMPs has been approved by the Co-Permittee and included in Appendix 5. Additionally, no downstream regional and/or sub-regional LID BMPs exist or are available for use by the project. The following alternative compliance measures on the following pages are being implemented to ensure that any pollutant loads expected to be discharged by not incorporating LID BMPs, are fully mitigated.

E.1 Identify Pollutants of Concern

Utilizing Table A.1 from Section A above which noted your project's receiving waters and their associated EPA approved 303(d) listed impairments, cross reference this information with that of your selected Priority Development Project Category in Table E.1 below. If the identified General Pollutant Categories are the same as those listed for your receiving waters, then these will be your Pollutants of Concern and the appropriate box or boxes will be checked on the last row. The purpose of this is to document compliance and to help you appropriately plan for mitigating your Pollutants of Concern in lieu of implementing LID BMPs.

Prior	ity Development	General Pollutant Categories							
Proje	Project Categories and/or Project Features (check those that apply)		Metals	Nutrients	Pesticides	Toxic Organic Compounds	Sediments	Trash & Debris	Oil & Grease
	Detached Residential Development	Р	N	Р	Р	Ν	Р	Ρ	Р
	Attached Residential Development	Р	N	Р	Р	N	Р	Ρ	P ⁽²⁾
	Commercial/Industrial Development	P ⁽³⁾	Ρ	P ⁽¹⁾	P ⁽¹⁾	P ⁽⁵⁾	P ⁽¹⁾	Ρ	Р
	Automotive Repair Shops	Ν	Ρ	N	N	P ^(4, 5)	N	Р	Р
	Restaurants (>5,000 ft ²)	Р	Ν	N	N	N	N	Р	Р
	Hillside Development (>5,000 ft ²)	Р	N	Р	Р	N	Р	Ρ	Р
	Parking Lots (>5,000 ft ²)	P ⁽⁶⁾	Ρ	P ⁽¹⁾	P ⁽¹⁾	P ⁽⁴⁾	P ⁽¹⁾	Р	Р
	Retail Gasoline Outlets	Ν	Р	N	N	Р	N	Р	Р
	ect Priority Pollutant(s) oncern	\boxtimes				\boxtimes			

Table E.1 Potential Pollutants by Land Use Type

P = Potential

N = Not Potential

⁽¹⁾ A potential Pollutant if non-native landscaping exists or is proposed onsite; otherwise not expected

(2) A potential Pollutant if the project includes uncovered parking areas; otherwise not expected

⁽³⁾ A potential Pollutant is land use involving animal waste

⁽⁴⁾ Specifically petroleum hydrocarbons

(5) Specifically solvents

⁽⁶⁾ Bacterial indicators are routinely detected in pavement runoff

E.2 Stormwater Credits

Projects that cannot implement LID BMPs but nevertheless implement smart growth principles are potentially eligible for Stormwater Credits. Utilize Table 3-8 within the WQMP Guidance Document to identify your Project Category and its associated Water Quality Credit. If not applicable, write N/A.

Table E.2 Water Quality Credits

Qualifying Project Categories	Credit Percentage ²
N/A	
Total Credit Percentage ¹	

¹Cannot Exceed 50%

²Obtain corresponding data from Table 3-8 in the WQMP Guidance Document

E.3 Sizing Criteria

After you appropriately considered Stormwater Credits for your project, utilize Table E.3 below to appropriately size them to the DCV, or Design Flow Rate, as applicable. Please reference Chapter 3.5.2 of the WQMP Guidance Document for further information.

DMA Type/ID	DMA Area (square feet)	Post- Project Surface	Effective Impervious Fraction, I _f	DMA Runoff Factor	DMA Area x Runoff Factor		Enter BMP Na	Enter BMP Name / Identifier Here		
1990/10	[A]	Туре	[B]	[C]	[A] x [C]		-			
N/A										
							Minimum		Proposed Volume	
							Design Capture	Total Storm	or Flow	
						Design Storm	Volume or Design Flow	Water Credit %	on Plans (cubic	
						Depth (in)	Rate (cubic feet or cfs)	Reduction	feet or cfs)	
	A _T = Σ[A]		1	<u>I</u>	Σ= [D]	[E]	$[F] = \frac{[D]x[E]}{[G]}$	[F] X (1-[H])	[1]	

 Table E.3 Treatment Control BMP Sizing

[B], [C] is obtained as described in Section 2.3.1 from the WQMP Guidance Document

[E] is for Flow-Based Treatment Control BMPs [E] = .2, for Volume-Based Control Treatment BMPs, [E] obtained from Exhibit A in the WQMP Guidance Document

[G] is for Flow-Based Treatment Control BMPs [G] = 43,560, for Volume-Based Control Treatment BMPs, [G] = 12

[H] is from the Total Credit Percentage as Calculated from Table E.2 above

[I] as obtained from a design procedure sheet from the BMP manufacturer and should be included in Appendix 6

E.4 Treatment Control BMP Selection

Treatment Control BMPs typically provide proprietary treatment mechanisms to treat potential pollutants in runoff, but do not sustain significant biological processes. Treatment Control BMPs must have a removal efficiency of a medium or high effectiveness as quantified below:

- **High**: equal to or greater than 80% removal efficiency
- Medium: between 40% and 80% removal efficiency

Such removal efficiency documentation (e.g., studies, reports, etc.) as further discussed in Chapter 3.5.2 of the WQMP Guidance Document, must be included in Appendix 6. In addition, ensure that proposed Treatment Control BMPs are properly identified on the WQMP Site Plan in Appendix 1.

Selected Treatment Control BMP	Priority Pollutant(s) of	Removal Efficiency
Name or ID ¹	Concern to Mitigate ²	Percentage ³
Contech Filterra Bioscape (BMP-A)	TSS/TOC	66%-85%
	Nutrients	73%

Table E.4 Treatment Control BMP Selection

¹ Treatment Control BMPs must not be constructed within Receiving Waters. In addition, a proposed Treatment Control BMP may be listed more than once if they possess more than one qualifying pollutant removal efficiency.

² Cross Reference Table E.1 above to populate this column.

³ As documented in a Co-Permittee Approved Study and provided in Appendix 6.

Section F: Hydromodification

F.1 Hydrologic Conditions of Concern (HCOC) Analysis

Once you have determined that the LID design is adequate to address water quality requirements, you will need to assess if the proposed LID Design may still create a HCOC. Review Chapters 2 and 3 (including Figure 3-7) of the WQMP Guidance Document to determine if your project must mitigate for Hydromodification impacts. If your project meets one of the following criteria which will be indicated by the check boxes below, you do not need to address Hydromodification at this time. However, if the project does not qualify for Exemptions 1, 2 or 3, then additional measures must be added to the design to comply with HCOC criteria. This is discussed in further detail below in Section F.2.

HCOC EXEMPTION 1: The Priority Development Project disturbs less than one acre. The Copermittee has the discretion to require a Project-Specific WQMP to address HCOCs on projects less than one acre on a case by case basis. The disturbed area calculation should include all disturbances associated with larger common plans of development.

Does the project qualify for this HCOC Exemption? \Box Y \boxtimes N If Yes, HCOC criteria do not apply.

HCOC EXEMPTION 2: The volume and time of concentration¹ of storm water runoff for the postdevelopment condition is not significantly different from the pre-development condition for a 2-year return frequency storm (a difference of 5% or less is considered insignificant) using one of the following methods to calculate:

- Riverside County Hydrology Manual
- Technical Release 55 (TR-55): Urban Hydrology for Small Watersheds (NRCS 1986), or derivatives thereof, such as the Santa Barbara Urban Hydrograph Method
- Other methods acceptable to the Co-Permittee

Does the project qualify for this HCOC Exemption?

□ Y 🛛 N

If Yes, report results in Table F.1 below and provide your substantiated hydrologic analysis in Appendix 7.

	2 year – 24 hour	2 year – 24 hour						
	Pre-condition	Post-condition	% Difference					
Time of	N/A							
Concentration								
Volume (Cubic Feet)								

¹ Time of concentration is defined as the time after the beginning of the rainfall when all portions of the drainage basin are contributing to flow at the outlet.

HCOC EXEMPTION 3: All downstream conveyance channels to an adequate sump (for example, Prado Dam, Lake Elsinore, Canyon Lake, Santa Ana River, or other lake, reservoir or naturally erosion resistant feature) that will receive runoff from the project are engineered and regularly maintained to ensure design flow capacity; no sensitive stream habitat areas will be adversely affected; or are not identified on the Co-Permittees Hydromodification Susceptibility Maps.

Does the project qualify for this HCOC Exemption?

If Yes, HCOC criteria do not apply and note below which adequate sump applies to this HCOC qualifier:

F.2 HCOC Mitigation

If none of the above HCOC Exemption Criteria are applicable, HCOC criteria is considered mitigated if they meet one of the following conditions:

- a. Additional LID BMPS are implemented onsite or offsite to mitigate potential erosion or habitat impacts as a result of HCOCs. This can be conducted by an evaluation of site-specific conditions utilizing accepted professional methodologies published by entities such as the California Stormwater Quality Association (CASQA), the Southern California Coastal Water Research Project (SCCRWP), or other Co-Permittee approved methodologies for site-specific HCOC analysis.
- b. The project is developed consistent with an approved Watershed Action Plan that addresses HCOC in Receiving Waters.
- c. Mimicking the pre-development hydrograph with the post-development hydrograph, for a 2-year return frequency storm. Generally, the hydrologic conditions of concern are not significant, if the post-development hydrograph is no more than 10% greater than pre-development hydrograph. In cases where excess volume cannot be infiltrated or captured and reused, discharge from the site must be limited to a flow rate no greater than 110% of the pre-development 2-year peak flow.

Be sure to include all pertinent documentation used in your analysis of the items a, b or c in Appendix 7.

The project is located within the HCOC Exemption area as found in the approved Riverside County HCOC Applicability Map dated April 20, 2017. See Appendix 7 for approved HCOC Applicability Map.

Section G: Source Control BMPs

Source control BMPs include permanent, structural features that may be required in your project plans — such as roofs over and berms around trash and recycling areas — and Operational BMPs, such as regular sweeping and "housekeeping", that must be implemented by the site's occupant or user. The MEP standard typically requires both types of BMPs. In general, Operational BMPs cannot be substituted for a feasible and effective permanent BMP. Using the Pollutant Sources/Source Control Checklist in Appendix 8, review the following procedure to specify Source Control BMPs for your site:

- 1. *Identify Pollutant Sources*: Review Column 1 in the Pollutant Sources/Source Control Checklist. Check off the potential sources of Pollutants that apply to your site.
- Note Locations on Project-Specific WQMP Exhibit: Note the corresponding requirements listed in Column 2 of the Pollutant Sources/Source Control Checklist. Show the location of each Pollutant source and each permanent Source Control BMP in your Project-Specific WQMP Exhibit located in Appendix 1.
- 3. **Prepare a Table and Narrative:** Check off the corresponding requirements listed in Column 3 in the Pollutant Sources/Source Control Checklist. In the left column of Table G.1 below, list each potential source of runoff Pollutants on your site (from those that you checked in the Pollutant Sources/Source Control Checklist). In the middle column, list the corresponding permanent, Structural Source Control BMPs (from Columns 2 and 3 of the Pollutant Sources/Source Control Checklist) used to prevent Pollutants from entering runoff. **Add additional narrative** in this column that explains any special features, materials or methods of construction that will be used to implement these permanent, Structural Source Control BMPs.
- 4. Identify Operational Source Control BMPs: To complete your table, refer once again to the Pollutant Sources/Source Control Checklist. List in the right column of your table the Operational BMPs that should be implemented as long as the anticipated activities continue at the site. Copermittee stormwater ordinances require that applicable Source Control BMPs be implemented; the same BMPs may also be required as a condition of a use permit or other revocable Discretionary Approval for use of the site.

Potential Sources of Runoff pollutants	Permanent Structural Source Control BMPs	Operational Source Control BMPs
A. On-site storm drain inlets	Mark all inlets with the works "Only Rain Down the Storm Drain" or similar. Catch Basin Markers may be available from the Riverside County Flood Control and Water Conservation District, call 951-955- 1200 to verify.	Maintain and periodically repaint or replace inlet markings as needed; at least every 5 years. Inspect annually every summer. Provide stormwater pollution prevention information to new site owners, lessees, or operators. See applicable operational BMPs in Fact Sheet SC-44, "Drainage System Maintenance," in Appendix 10 (CASQA Stormwater Quality

Table G.1 Permanent and Operational Source Control Measures

	On-site drainage structures, including all storm drain clean outs, area drains, inlets, catch basins, inlet & outlet structures, lift stations, forebays, & water treatment control basins shall be inspected and maintained on a regular basis to ensure their operational adequacy. Inspect and maintain before each rainy season and after the first heavy rain.	Handbook at www.cabmphandbooks.com Include the following in lessee agreements: "Tenants shall not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains" Maintenance should include removal of trash, debris, & sediment and the repair of any deficiencies or damage that may impact water quality. Maintain at least once in September prior to the rainy season and after storm as needed.
B. Interior floor drains and elevator shaft sump	The interior floor drains and elevator shaft sump pumps will be plumbed to sanitary sewer	Inspect and maintain drains at least once annually to prevent blockages and overflow.
C. Landscape/Outdoor Pesticide Use	The final landscape shall be designed to accomplish all of the following:	Maintain landscaping using minimum or no pesticides.
	Preserve existing native trees, shrubs and ground cover to the maximum extent possible. Design landscape to minimize irrigation and runoff, to promote surface infiltration where appropriate and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution. Where landscaped areas are used to retain or detain stormwater, specify plants that are tolerant of saturated soil conditions. Consider using pest-resistant plants, especially adjacent to hardscape. To ensure successful establishments, select plants appropriate to site, soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions. Pesticide usage should be at a necessary minimum and be consistent with the instructions	See applicable operational BMPs in "What you should know for Landscape and Gardening" at http://rcflood.org/stormwater and Appendix 10. Provide IPM information to new owners, lessees and operators. Landscape maintenance should include mowing, weeding, trimming, removal of trash & debris, repair of erosion, re-vegetation, and removal of cut & dead vegetation. It should be completed before rainy season and as needed. Irrigation maintenance should include the repair of leaky or broken sprinkler heads, the maintaining of timing apparatus accuracy, and the maintaining of shut off valves in good working order.

		[]
D. Refuse Trash Storage areas	contained on product labels and with the regulations administered by the State Department of Pesticide Regulation. Pesticides should be used at an absolute minimum or not at all in the retention/infiltration basin. If used, it should not be applied in close proximity to the rainy season. Trash container storage areas shall be paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements from the surrounding area, and screened or walled to prevent off-site transport of trash. Trash dumpsters (containers) shall be leak proof and have attached covers or lids. Trash enclosures shall be roofed per City standards and the details on the FWQMP Exhibit in Appendix 1. Trash compactors shall be roofed and set on a concrete pad per City standards. The pad shall be a minimum of one foot larger all around than the trash compactor and sloped to drain to a sanitary sewer line. Connection of trash area drains to the MS4 is prohibited. See CASQA SD-32 BMP Fact Sheets in Appendix 10 for additional info.	Adequate number of receptacles shall be provided. Inspect receptacles monthly; repair or replace leaky receptacles as needed. Keep receptacles covered. Prohibit/prevent dumping of liquid or hazardous wastes. Post "no hazardous materials" signs. Inspect and pick up litter daily and clean up spills immediately. Keep spill control materials available on-site. See Fact Sheet SC-34, in Appendix 10, "Waste Handling and Disposal" in the CASQA Stormwater Quality Handbook at www.cabmphandbooks.com
E. Loading Docks	dumpsters with the words "Do not dump hazardous materials here" or similar. Loading docks will not be covered and are 4 feet above finished	Move loaded and unloaded items indoors as soon as possible.
	pavement surface. Spill kits are to be kept on-site at all times per SC-11	Inspect for accumulated trash and debris. Implement good housekeeping procedures on a regular basis. Sweep areas clean instead of using wash water. Loading docks will be kept in a clean and orderly condition, through a regular program of sweeping and litter control, and immediate cleanup of any spills or broken containers. Property owner will ensure that

		loading docks will be swept as needed. Cleanup procedures will not include the use of wash-down water. Property owner will be responsible for implementation of loading dock housekeeping procedures
		See the Fact Sheet SC-30, in Appendix 10, "Outdoor Loading and Unloading" in the CASQA Stormwater Quality Handbooks a www.cabmphandbooks.com
F. Fire Sprinkler Test Water	Provide a means to drain fire sprinkler test water to the sanitary sewer.	See the note in the Fact Sheet SC-41, in Appendix 10, "Building and Grounds Maintenance", in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com
G. Miscellaneous Drain or Wash Water or Other Sources	Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system	
Boiler drain lines	Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur.	
Condensate drain lines	Condensate drain lines may not discharge to the storm drain system.	
Rooftop equipment	Rooftop equipment with potential to produce pollutants shall be roofed and/or have secondary containment.	
Drainage sumps	Any drainage sumps on-site shall feature a sediment sump to reduce the quantity of sediment in pumped water.	
Roofing, gutters and trim	Avoid roofing, gutters and trim made of copper of other unprotected metals that may leach into runoff.	
Other sources	Include controls for other sources as specified by local reviewer.	
H. Plazas, sidewalks, and parking lots	Spill kits are to be kept on-site at all times per SC-11	Sweep plazas, sidewalks, and parking lots regularly and before the rainy season to prevent accumulation of litter and debris. Collect debris from pressure washing to prevent entry into the storm drain system. Collect washwater containing any cleaning agent or degreaser and discharge to

	the sanitary sewer not to a storm
	drain.

Section H: Construction Plan Checklist

Populate Table H.1 below to assist the plan checker in an expeditious review of your project. The first two columns will contain information that was prepared in previous steps, while the last column will be populated with the corresponding plan sheets. This table is to be completed with the submittal of your final Project-Specific WQMP.

BMP No. or ID	BMP Identifier and Description	Corresponding Plan Sheet(s)	BMP Location (Lat/Long)
*	*	*	*

 Table H.1 Construction Plan Cross-reference

Note that the updated table — or Construction Plan WQMP Checklist — is **only a reference tool** to facilitate an easy comparison of the construction plans to your Project-Specific WQMP. Co-Permittee staff can advise you regarding the process required to propose changes to the approved Project-Specific WQMP.

*To be completed during final engineering

Section I: Operation, Maintenance and Funding

The Copermittee will periodically verify that Stormwater BMPs on your site are maintained and continue to operate as designed. To make this possible, your Copermittee will require that you include in Appendix 9 of this Project-Specific WQMP:

- 1. A means to finance and implement facility maintenance in perpetuity, including replacement cost.
- 2. Acceptance of responsibility for maintenance from the time the BMPs are constructed until responsibility for operation and maintenance is legally transferred. A warranty covering a period following construction may also be required.
- 3. An outline of general maintenance requirements for the Stormwater BMPs you have selected.
- 4. Figures delineating and designating pervious and impervious areas, location, and type of Stormwater BMP, and tables of pervious and impervious areas served by each facility. Geolocating the BMPs using a coordinate system of latitude and longitude is recommended to help facilitate a future statewide database system.
- 5. A separate list and location of self-retaining areas or areas addressed by LID Principles that do not require specialized O&M or inspections but will require typical landscape maintenance as noted in Chapter 5, pages 85-86, in the WQMP Guidance. Include a brief description of typical landscape maintenance for these areas.

Your local Co-Permittee will also require that you prepare and submit a detailed Stormwater BMP Operation and Maintenance Plan that sets forth a maintenance schedule for each of the Stormwater BMPs built on your site. An agreement assigning responsibility for maintenance and providing for inspections and certification may also be required.

Details of these requirements and instructions for preparing a Stormwater BMP Operation and Maintenance Plan are in Chapter 5 of the WQMP Guidance Document.

Maintenance Mechanism: WQMP Covenant and Agreement

Will the proposed BMPs be maintained by a Home Owners' Association (HOA) or Property Owners Association (POA)?



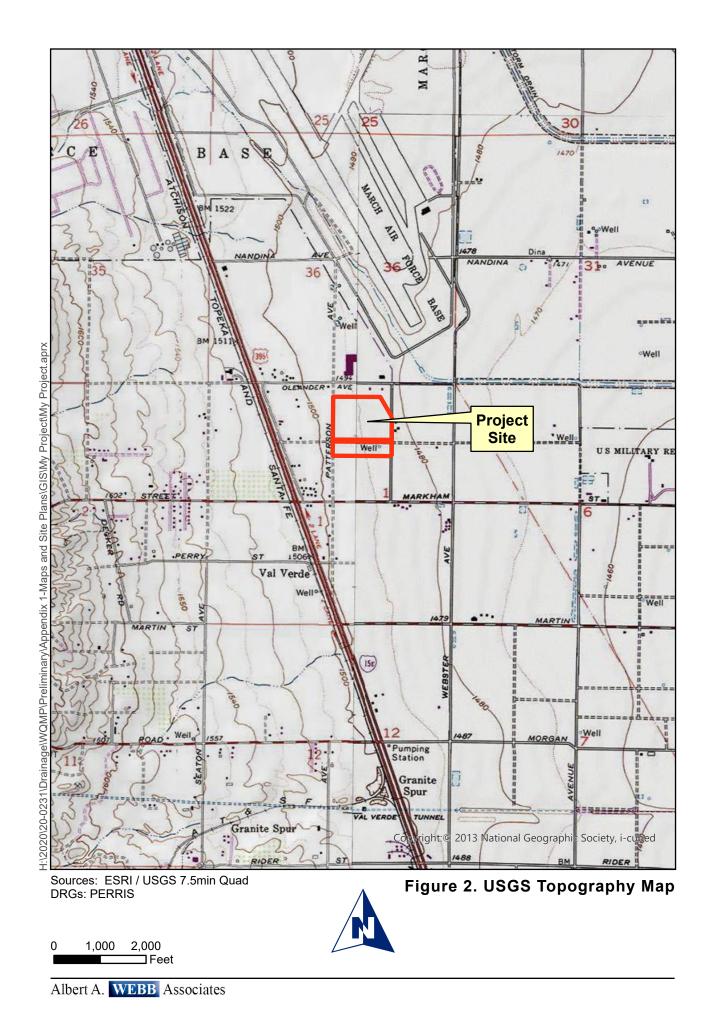
Include your Operation and Maintenance Plan and Maintenance Mechanism in Appendix 9. Additionally, include all pertinent forms of educational materials for those personnel that will be maintaining the proposed BMPs within this Project-Specific WQMP in Appendix 10.

*More information to be provided during final engineering

Appendix 1: Maps and Site Plans

Location Map, WQMP Site Plan and Receiving Waters Map







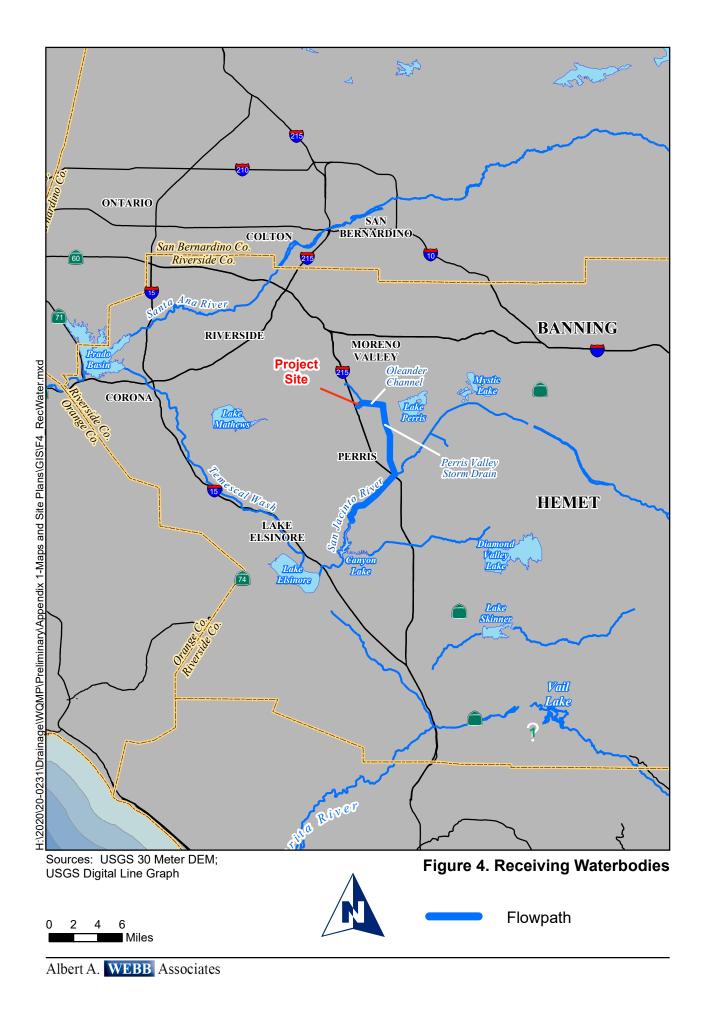
Sources: County of Riverside GIS; Eagle Aerial, 2016.

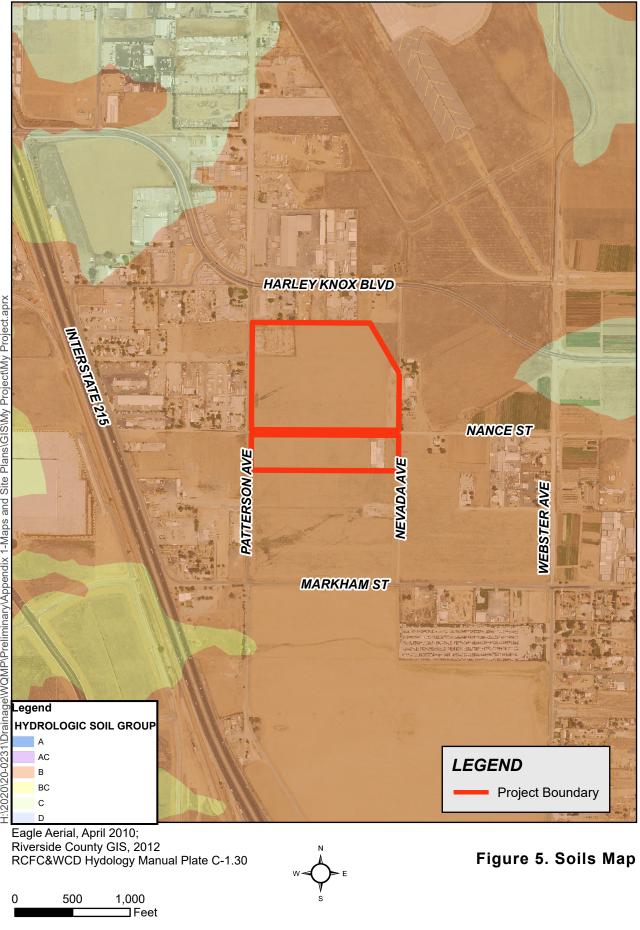


Figure 3. Aerial Photograph

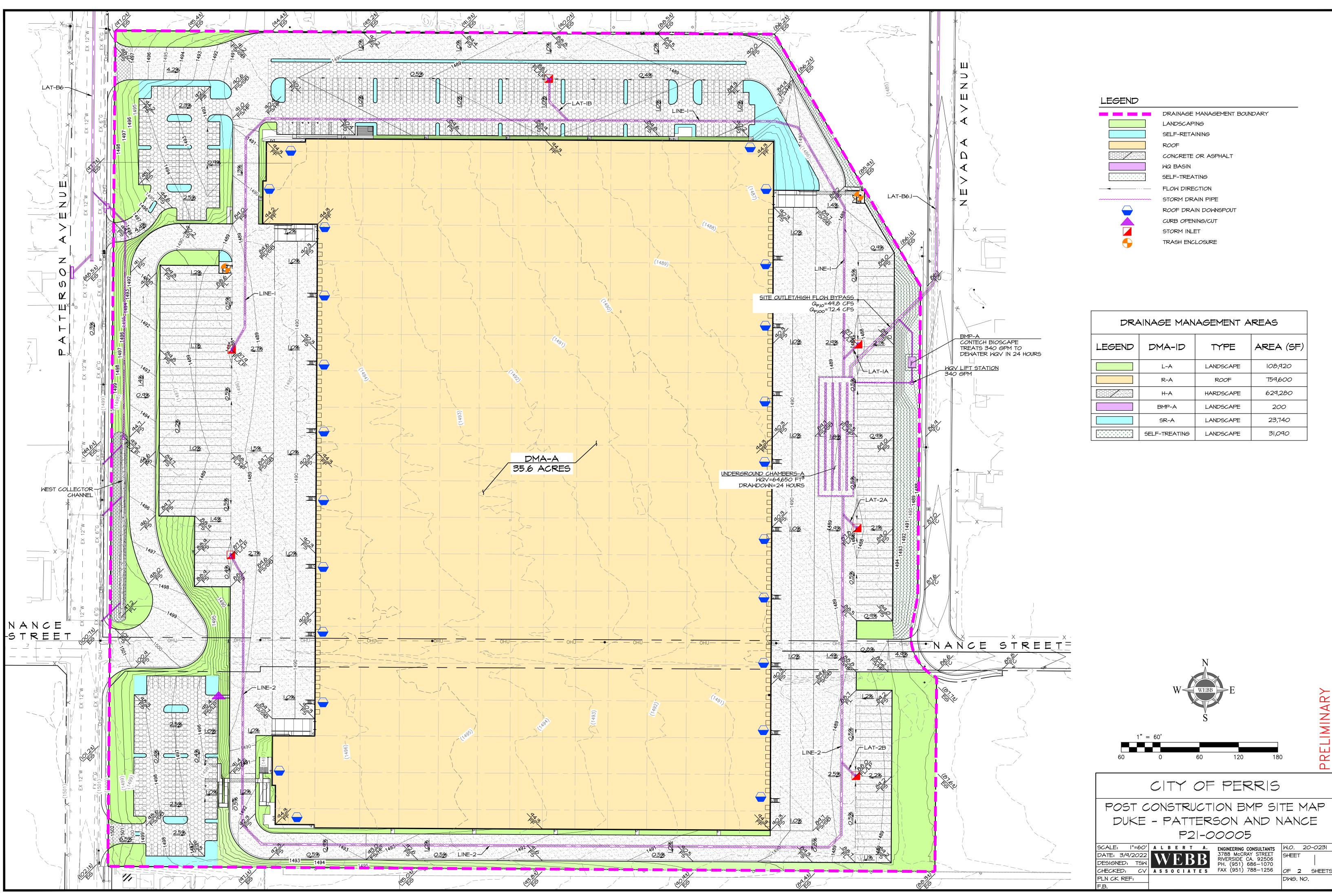
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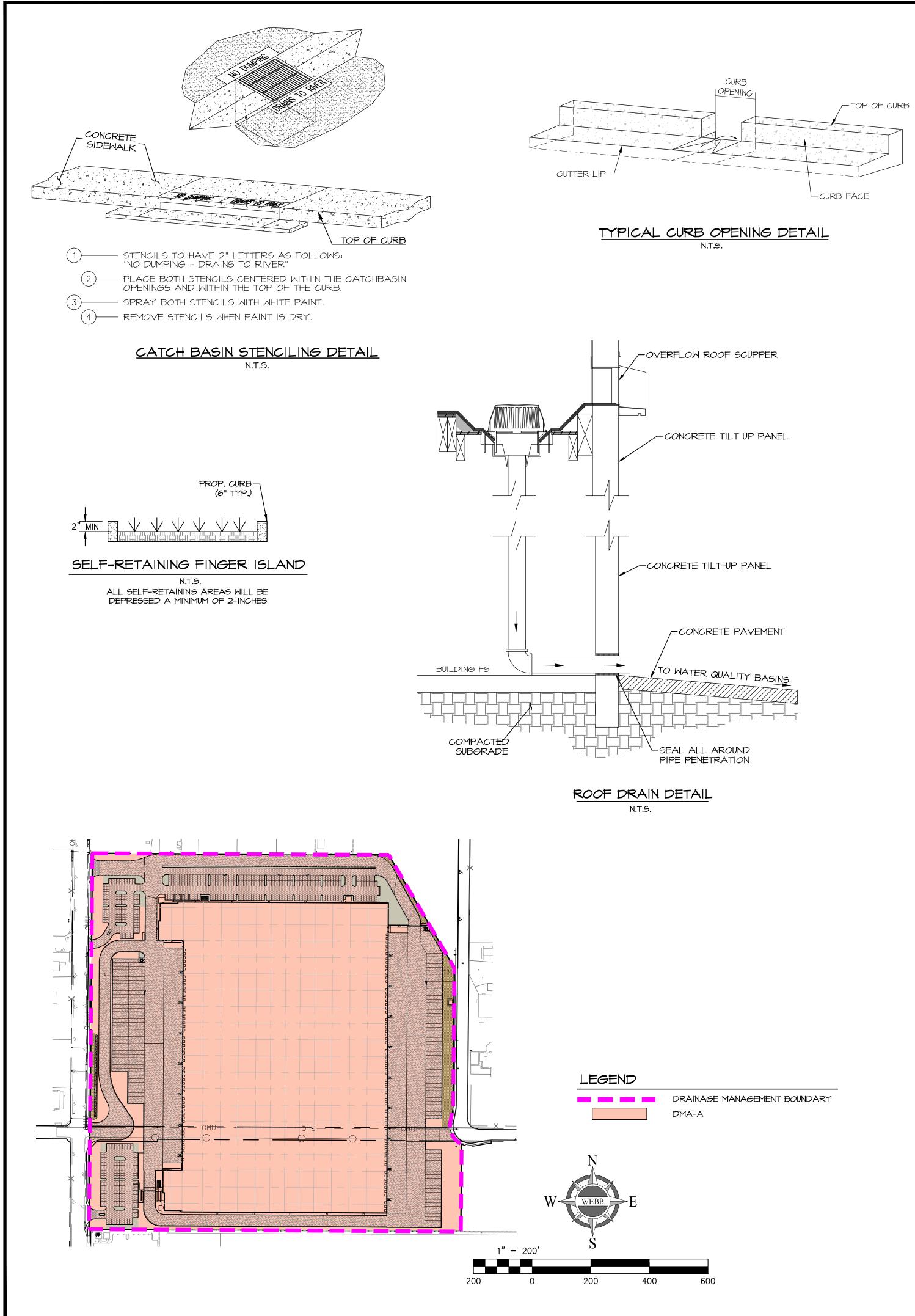
Feet





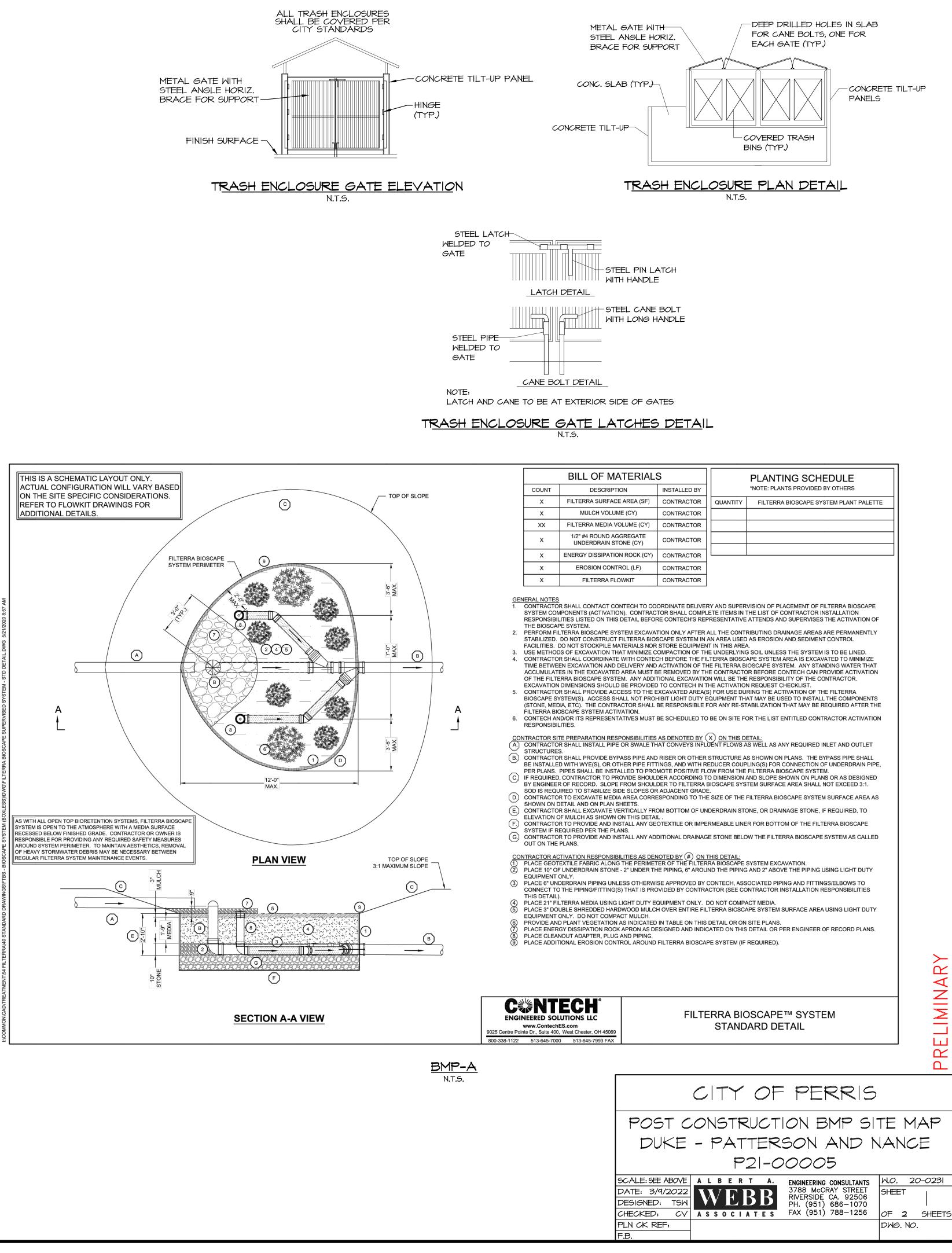
Albert A. WEBB Associates





CITY STANDARDS METAL GATE WITH STEEL ANGLE HORIZ. BRACE FOR SUPPORT-FINISH SURFACE -

N.T.S.



Appendix 2: Construction Plans

Grading and Drainage Plans

*To be included in FWQMP

Appendix 3: Soils Information

Geotechnical Study and Other Infiltration Testing Data

December 24, 2020

Duke Realty 200 Spectrum Center Drive, Suite 1600 Irvine, California 92618



- Attention: Mr. George Atalla Assistant Development Services Manager
- Project No.: **20G239-2**
- Subject: **Results of Infiltration Testing** Proposed Warehouse NEC Patterson Avenue and Nance Street Perris, California
- Reference: <u>Geotechnical Investigation, Proposed Warehouse, NEC Patterson Avenue and Nance Street, Perris, California</u>, prepared by Southern California Geotechnical, Inc. (SCG) for Duke Realty, SCG project No. 20G239-1, dated December 24, 2020.

Mr. Atalla:

In accordance with your request, we have conducted infiltration testing at the subject site. We are pleased to present this report summarizing the results of the infiltration testing and our design recommendations.

Scope of Services

The scope of services performed for this project was in general accordance with our Proposal No. 20P424, dated November 18, 2020. The scope of services included site reconnaissance, subsurface exploration, field testing, and engineering analysis to determine the infiltration rates of the on-site soils. The infiltration testing was performed in general accordance with the <u>Riverside County – Low Impact Development BMP Design Handbook – Section 2.3 of Appendix A</u>, prepared for the Riverside County Department of Environmental Health (RCDEH), dated December 2013 and the ASTM test method D-3385-03, Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer.

Site and Project Description

The subject site is located at the northeast corner of Patterson Avenue and Nance Street in Perris, California. The site is bounded to the north by existing single-family residences (SFRs), and vacant lots, to the west by Patterson Avenue, to the south by Nance Street, and to the east by Nevada Avenue and the March Air Reserve Base. The general location of the site is illustrated on the Site Location Map, included as Plate 1 of this report.

The site consists of twenty-six (26) rectangular to triangular-shaped parcels which total $26\pm$ acres in size. The site is mostly vacant and undeveloped, except for a trailer drop-lot in the northwest parcel of the site and a $40\pm$ feet by $40\pm$ feet concrete slab-on-grade located in the east-central region of the site. Ground surface cover within the trailer drop-lot consists of old/degraded

crushed aggregate base (CAB) pavements with areas of open-graded gravel, and isolated areas of exposed soils with sparse native grass and weed growth. In the remainder of the site the ground surface cover consists of exposed soil with moderate to dense native grass and weed growth. Ground surface cover in the northwest parcel consists of exposed soil. Several trailers were present in the drop-lot at the time of the subsurface investigation.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth, and visual observations made at the time of the subsurface investigation, the overall site topography slopes gently downward to the north at a gradient of $\frac{1}{2}$ percent. There is approximately 4 feet of elevation differential across the overall site.

Proposed Development

SCG was provided with a site plan by the client. Based on this site plan, the site will be developed with one (1) new warehouse, $520,598 \pm \text{ft}^2$ in size, in the west-central area of the site. Dock-high doors will be constructed along portions of the north and south building walls. The building will be surrounded by asphaltic concrete pavements in the parking and drive lanes, Portland cement concrete pavements in the loading dock areas, and limited areas of concrete flatwork and landscape planters throughout. One parcel east of the proposed building, $0.96 \pm$ acres in size, will be excluded from the proposed development.

The proposed development will include on-site infiltration to dispose of storm water. The infiltration system will consist of a below-grade chamber system located in the southern area of the site. The bottom of the chamber system is expected to be $8\pm$ feet below existing site grades.

Concurrent Study

Southern California Geotechnical, Inc. (SCG) concurrently performed a geotechnical investigation at the subject site, referenced above. As part of this investigation, SCG performed a total of seven (7) borings advanced to depths of 15 to 25± feet below the existing site grades. Native alluvium was encountered at the ground surface at all of the boring locations. The near-surface native alluvial soils extending from the ground surface to depths of 1½ to 6½± feet, were classified as younger alluvium. The younger alluvium generally possesses lower densities than the soils classified as older alluvium. The younger alluvium generally consists of medium dense to dense silty sands, sandy silts, and clay sands. At Boring No. B-4 a layer of hard sandy clay was encountered. Older native alluvial soils were encountered beneath the younger native alluvial soils at all of the boring locations. Most of the older alluvial soils encountered at the boring locations consist of medium dense to very dense silty sands, sandy silts, and clayes to very dense silty sands, sandy silts, and clayes to very dense silty sands, sandy silts, and clayes to very dense silty sands, sandy silts, and clayes to very dense silty sands, sandy silts, and clayes sands. Older alluvial soils encountered at the boring locations consist of medium dense to very dense silty sands, sandy silts, and clayes sands. Older alluvial soils also consisted of stiff to hard sandy clays and varying amounts of silt. Older native alluvial soils extended to at least the maximum depths explored at all of the boring locations.

Subsurface Exploration

Scope of Exploration

The subsurface exploration for the infiltration testing consisted of two (2) backhoe-excavated trenches, extending to a depth of $8\pm$ feet below existing site grades. The trenches were logged during excavation by a member of our staff. The approximate locations of the infiltration trenches



(identified as I-1 and I-2) are indicated on the Infiltration Test Location Plan, enclosed as Plate 2 of this report.

Geotechnical Conditions

Native alluvial soils were encountered at the ground surface at both infiltration trench locations, extending to at least the maximum explored depth of $8\pm$ feet. The alluvial soils consist mainly of medium dense to dense silty fine sands with trace quantities of medium to coarse sand. In addition, dense clayey fine to medium sands with trace quantities of coarse sand and silt were encountered beneath the silty fine sands, extending to the maximum explored depth of $8\pm$ feet below existing site grades. The Trench Logs, which illustrate the conditions encountered at the infiltration test locations, are included with this report.

Groundwater

Groundwater was not encountered at any of the boring or trench locations from either this study or the concurrent study. Based on the lack of any water within the borings, and the moisture contents of the recovered soil samples, the static groundwater table is considered to have existed at a depth in excess of $25\pm$ feet below existing site grades, at the time of the subsurface investigation.

Recent water level data was obtained from the California Department of Water Resources Water Data Library website, <u>http://wdl.water.ca.gov/</u>. The nearest monitoring well on record is located $60\pm$ feet south of the site. Water level readings within this monitoring well indicate a groundwater level of $72\pm$ feet below the ground surface in March 2020.

Infiltration Testing – Double Ring Infiltrometer

The infiltration testing was performed in general accordance with the ASTM test method D-3385-03, Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer.

Two stainless steel infiltration rings were used for the infiltration testing. The outer infiltration ring is 2 feet in diameter and 20 inches in height. The inner infiltration ring is 1 foot in diameter and 20 inches in height. At each test location, a trench was excavated to the proposed depth of the infiltration system and the outer ring was driven $3\pm$ inches into the soil at the base of each trench. The inner ring was centered inside the outer ring and subsequently driven $3\pm$ inches into the soil at the base of the trench. The rings were driven into the soil using a sixteen-pound sledge hammer. The soil surrounding the wall of the infiltration rings was only slightly disturbed during the driving process.

Infiltration Testing Procedure

Infiltration testing was performed at both of the infiltration trench locations. The infiltration testing consisted of filling the inner ring and the annular space (the space between the inner and outer rings) with water, approximately 3 to 4 inches above the soil. To prevent the flow of water from one ring to the other, the water level in both the inner ring and the annular space between the rings was maintained using constant-head float valves. The volume of water that was added to maintain a constant head in the inner ring and the annular space during each time interval was



determined and recorded. A cap was placed over the rings to minimize the evaporation of water during the tests.

The schedule for readings was determined based on the observed soil type at the base of each backhoe-excavated trench. Based on the existing soils at the trench locations, the volumetric measurements were made at 30-minute increments. The water volume measurements are presented on the spreadsheets enclosed with this report. The infiltration rates for each of the timed intervals are also tabulated on these spreadsheets

Infiltration Results

The infiltration rates from the tests are tabulated in inches per hour. In accordance with the typically accepted practice, it is recommended that the most conservative reading from the latter part of the infiltration tests be used as the design infiltration rate. The rates are summarized below:

<u>Infiltration</u> <u>Test No.</u>	<u>Test</u> <u>Depth</u> <u>(feet)</u>	Soil Description	<u>Infiltration Rate</u> (inches/hour)
I-1	8	Dark Brown Clayey fine to medium Sand, trace coarse Sand, trace Silt	0.3
I-2	8	Dark Brown Clayey fine to medium Sand, trace coarse Sand, trace Silt	0.2

Laboratory Testing

Moisture Content

The moisture contents for the recovered soil samples within the borings were determined in accordance with ASTM D-2216 and are expressed as a percentage of the dry weight. These test results are presented on the Trench Logs.

Grain Size Analysis

The grain size distribution of selected soils collected from the base of each infiltration test boring have been determined using a range of wire mesh screens. These tests were performed in general accordance with ASTM D-422 and/or ASTM D-1140. The weight of the portion of the sample retained on each screen is recorded and the percentage finer or coarser of the total weight is calculated. The results of these tests are presented on Plates C-1 through C-2 of this report.

Design Recommendations

Two (2) infiltration tests were performed at the subject site. As noted above, the infiltration rates at these locations vary from 0.2 to 0.3 inches per hour. **Based on the results of the infiltration testing, infiltration is not considered feasible at the proposed depth and location due to dense clayey soils.**



We recommend that a representative from the geotechnical engineer be on-site during the construction of the proposed infiltration system to identify the soil classification at the base of the system. It should be confirmed that the soils at the base of the proposed infiltration system correspond with those presented in this report to ensure that the performance of the system will be consistent with the rates reported herein.

The design of the storm water infiltration systems should be performed by the project civil engineer, in accordance with the City of Perris and/or County of Riverside guidelines. It is recommended that the system be constructed so as to facilitate removal of silt and clay, or other deleterious materials from any water that may enter the system. The presence of such materials would decrease the effective infiltration rates. It is recommended that the project civil engineer apply an appropriate factor of safety. The infiltration rate recommended above is based on the assumption that only clean water will be introduced to the subsurface profile. Any fines, debris, or organic materials could significantly impact the infiltration rate. It should be noted that the recommended infiltration rates are based on infiltration testing at two (2) discrete locations and that the overall infiltration rates of the proposed infiltration system could vary considerably.

Construction Considerations

The infiltration rates presented in this report are specific to the tested locations and tested depths. Infiltration rates can be significantly reduced if the soils are exposed to excessive disturbance or compaction during construction. Therefore, the subgrade soils within proposed infiltration system areas should not be over-excavated, undercut or compacted in any significant manner. **It is recommended that a note to this effect be added to the project plans and/or specifications.**

Infiltration versus Permeability

Infiltration rates are based on unsaturated flow. As water is introduced into soils by infiltration, the soils become saturated and the wetting front advances from the unsaturated zone to the saturated zone. Once the soils become saturated, infiltration rates become zero, and water can only move through soils by hydraulic conductivity at a rate determined by pressure head and soil permeability. The infiltration rates presented herein were determined in accordance with the Riverside County guidelines and are considered valid for the time and place of the actual tests. Changes in soil moisture content will affect the infiltration rate. Infiltration rates should be expected to decrease until the soils become saturated. Soil permeability values will then govern groundwater movement. Permeability values may be on the order of 10 to 20 times less than infiltration rates. The system designer should incorporate adequate factors of safety and allow for overflow design into appropriate traditional storm drain systems, which would transport storm water off-site.

Location of Infiltration System

The use of on-site storm water infiltration system carries a risk of creating adverse geotechnical conditions. Increasing the moisture content of the soil can cause the soil to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Overlying structures and pavements in the infiltration area could potentially be



damaged due to saturation of subgrade soils. **The proposed infiltration system for this site should be located at least 25 feet away from any structures, including retaining walls.** Even with this provision of locating the infiltration system at least 25 feet from the building, it is possible that infiltrating water into the subsurface soils could have an adverse effect on the proposed or existing structures. It should also be noted that utility trenches which happen to collect storm water can also serve as conduits to transmit storm water toward the structure, depending on the slope of the utility trench. Therefore, consideration should also be given to the proposed locations of underground utilities which may pass near the proposed infiltration system.

General Comments

This report has been prepared as an instrument of service for use by the client in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, structural engineer, and/or civil engineer. The design of the proposed storm water infiltration system is the responsibility of the civil engineer. The role of the geotechnical engineer is limited to determination of infiltration rate only. By using the design infiltration rate contained herein, the civil engineer agrees to indemnify, defend, and hold harmless the geotechnical engineer for all aspects of the design and performance of the proposed storm water infiltration system. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and testing depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted. The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.



<u>Closure</u>

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

No. 2655

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

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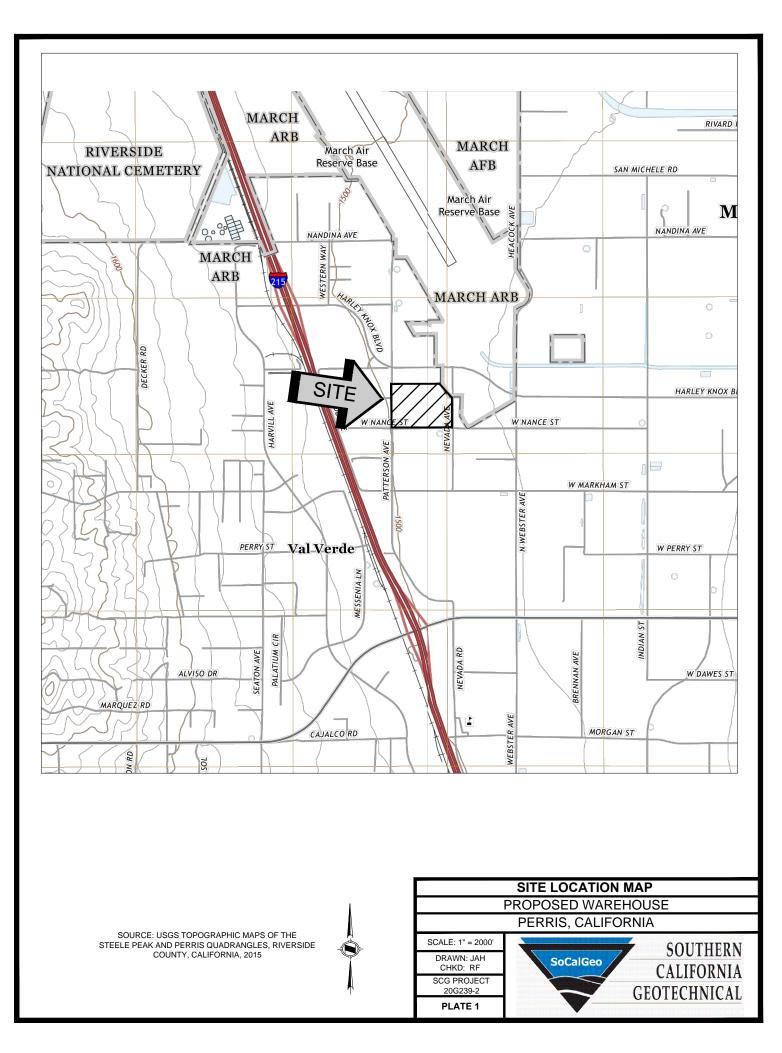
Ryan Bremer Staff Geologist

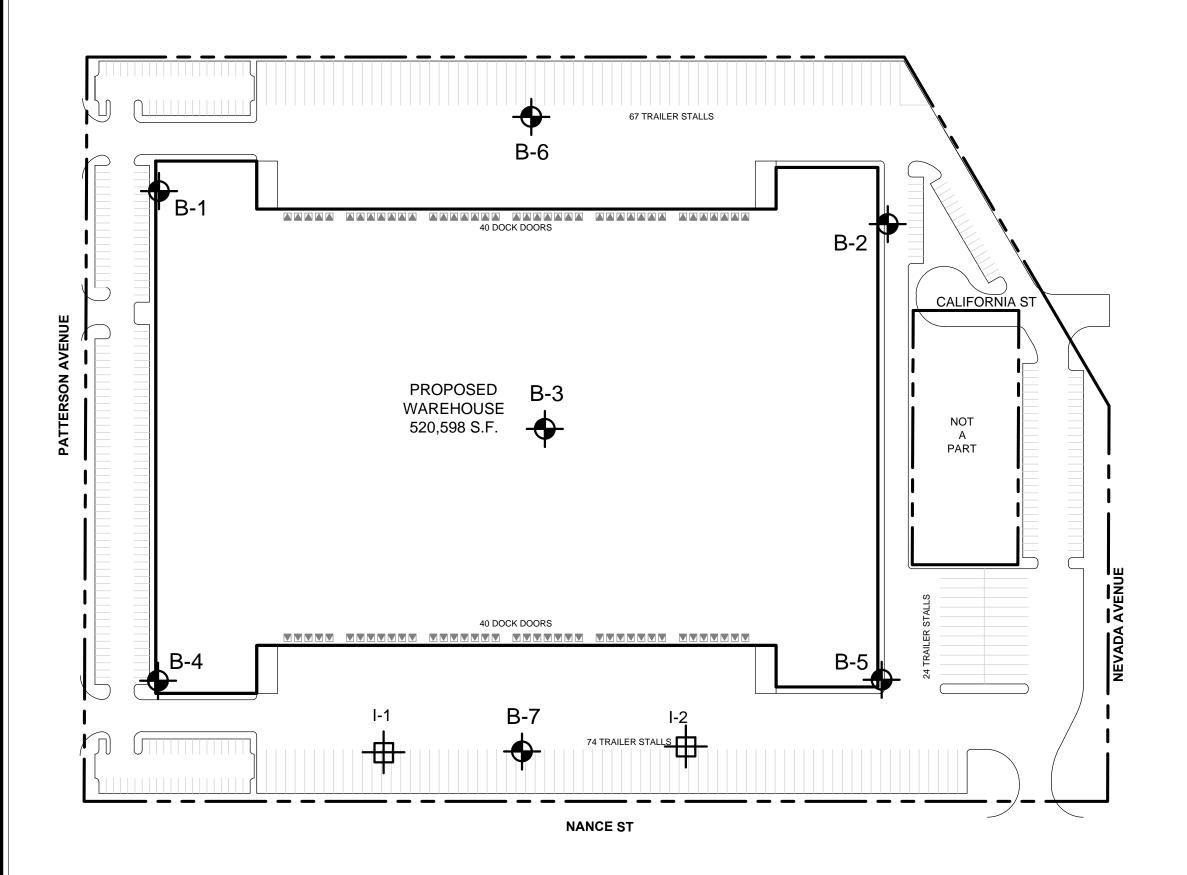
Robert G. Trazo, GE 2655 Principal Engineer

Distribution: (1) Addressee

Enclosures: Plate 1 - Site Location Map Plate 2 - Infiltration Test Location Plan Trench Logs & Trench Log Legend (4 pages) Infiltration Test Results Spreadsheets (2 pages) Grain Size Distribution Results (2 pages)









GEOTECHNICAL LEGEND

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SCALE: 1" = 120'

DRAWN: JAH CHKD: RF

SCG PROJECT 20G239-2

PLATE 2



APPROXIMATE BORING LOCATION (SCG PROJECT NO. 20G239-1)

NOTE: SITE PLAN PROVIDED BY DUKE REALTY.

INFILTRATION TEST LOCATION PLAN PROPOSED WAREHOUSE

PERRIS, CALIFORNIA

SoCalGeo

SOUTHERN

CALIFORNIA

GEOTECHNICAL

TRENCH LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR	\bigcirc	NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

<u>DEPTH</u> :	Distance in feet below the ground surface.
SAMPLE:	Sample Type as depicted above.
BLOW COUNT:	Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.
POCKET PEN.:	Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.
GRAPHIC LOG :	Graphic Soil Symbol as depicted on the following page.
DRY DENSITY:	Dry density of an undisturbed or relatively undisturbed sample in lbs/ft ³ .
MOISTURE CONTENT:	Moisture content of a soil sample, expressed as a percentage of the dry weight.
LIQUID LIMIT:	The moisture content above which a soil behaves as a liquid.
PLASTIC LIMIT:	The moisture content above which a soil behaves as a plastic.
PASSING #200 SIEVE:	The percentage of the sample finer than the #200 standard sieve.
UNCONFINED SHEAR:	The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

м	AJOR DIVISI	ONS		BOLS	TYPICAL
			GRAPH	LETTER	DESCRIPTIONS
	GRAVEL AND	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
	GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	FRACTION RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS	SAND AND	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
LARGER THAN NO. 200 SIEVE SIZE	SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
	PASSING ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
				ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
00120				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY
				ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HI	GHLY ORGANIC S	SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS



JOB NO.: 20G239-2 PROJECT: Proposed V			VATER AVE D			-	
LOCATION: Perris, California LOGGED BY: Luis Arriaga READING TAKEN: At FIELD RESULTS LABORATORY RESULTS							
				≺Y R	ESUL		
DEPTH (FEET) SAMPLE BLOW COUNT POCKET PEN. (TSF)		DRY DENSITY (PCF) MOISTURE CONTENT (%)	LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
5 -	ALLUVIUM: Dark Brown Silty fine Sand, trace medium to coarse Sand, medium dense-moist Dark Brown Clayey fine to medium Sand, trace coarse Sand, trace Silt, dense-damp	-					-
		7					
	Trench Terminated at 8'						



			3239-2		DRILLING DATE: 12/4/20 ehouse DRILLING METHOD: Backhoe			ATER AVE D			-	
				Califor			R	EADIN	IG TAł	KEN:		mpletion
FIEL	D F	RESL	JLTS			LAE	BOR/	ATOF	RY R	ESUI	TS	
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
5	-				<u>ALLUVIUM:</u> Dark Brown Silty fine Sand, trace medium to coarse Sand, dense-moist Dark Brown Clayey fine to medium Sand, trace Silt, trace coarse Sand, dense-damp	-						-
							8					
TBL 206239-2.GPJ SOCALGEO.GDT 12/24/20					Trench Terminated at 8'							
BL 200												
					00	1	1	1	1	1		

INFILTRATION CALCULATIONS

Project Name	Proposed Warehouse
Project Location	Perris, California
Project Number	20G239-2
Engineer	Luis Arriaga

Infiltration Test No I-1

Diameter	Area	Area
(ft)	(ft^2)	(cm ²)
1	0.79	730
2	2.36	2189
	Diameter (ft) 1 2	Diameter Area (ft) (ft²) 1 0.79 2 2.36

*Note: The infiltration rate was calculated based on current time interval

					Flow	Readings			Infiltrati	on Rates	
Test			Interval Elapsed	Inner Ring	Ring Flow	Annular Ring	Flow	Inner Ring*	Annular Space*	Ring*	Annular Space*
Interval		Time (hr)	(min)	(ml)	(cm ³)	(ml)	(cm^3)	(cm/hr)	(cm/hr)	(in/hr)	(in/hr)
1	Initial	1:28 PM	10	0	1500	0	5400	12.33	14.80	4.86	5.83
-	Final	1:38 PM	10	1500	1500	5400	5100	12.55	11.00	1.00	5.05
2	Initial	2:00 PM	30	0	600	0	5800	1.64	5.30	0.65	2.09
Z	Final	2:30 PM	62	600	000	5800	5000	1.04	5.50	0.05	2.09
3	Initial	2:31 PM	30	0	450	0	4900	1.23	4.48	0.49	1.76
5	Final	3:01 PM	93	450	430	4900	4900	1.25	4.40	0.49	1.70
4	Initial	3:02 PM	30	0	350	0	4800	0.96	4.39	0.38	1.73
7	Final	3:32 PM	124	350	550	4800	4000	0.90	4.59	0.50	1.75
5	Initial	3:33 PM	30	0	300	0	4200	0.82	3.84	0.32	1.51
5	Final	4:03 PM	155	300	300	4200	4200	0.02	5.04	0.52	1.51
6	Initial	4:05 PM	30	0	250	0	4000	0.69	3.65	0.27	1.44
U	Final	4:35 PM	187	250	250	4000	4000	0.09	5.05	0.27	1.44
7	Initial	4:37 PM	30	0	250	0	4000	0.69	3.65	0.27	1.44
	Final	5:07 PM	219	250	230	4000	4000	0.09	5.05	0.27	1.44

INFILTRATION CALCULATIONS

Project Name	Proposed Warehouse
Project Location	Perris, California
Project Number	20G239-2
Engineer	Luis Arriaga

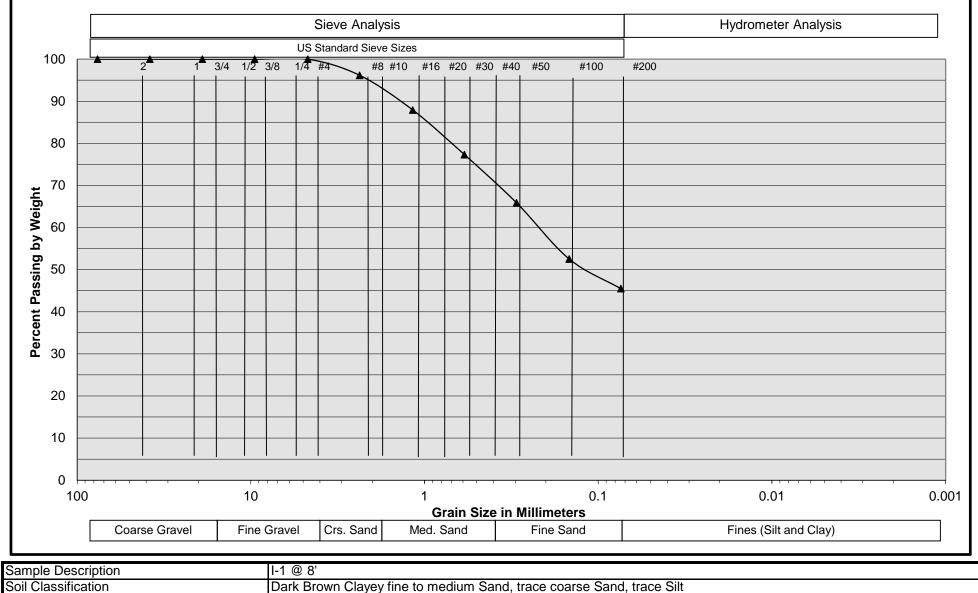
Infiltration Test No I-2

Diameter	Area	Area
(ft)	(ft ²)	(cm ²)
1	0.79	730
2	2.36	2189
	(ft) 1	1 0.79

*Note: The infiltration rate was calculated based on current time interval

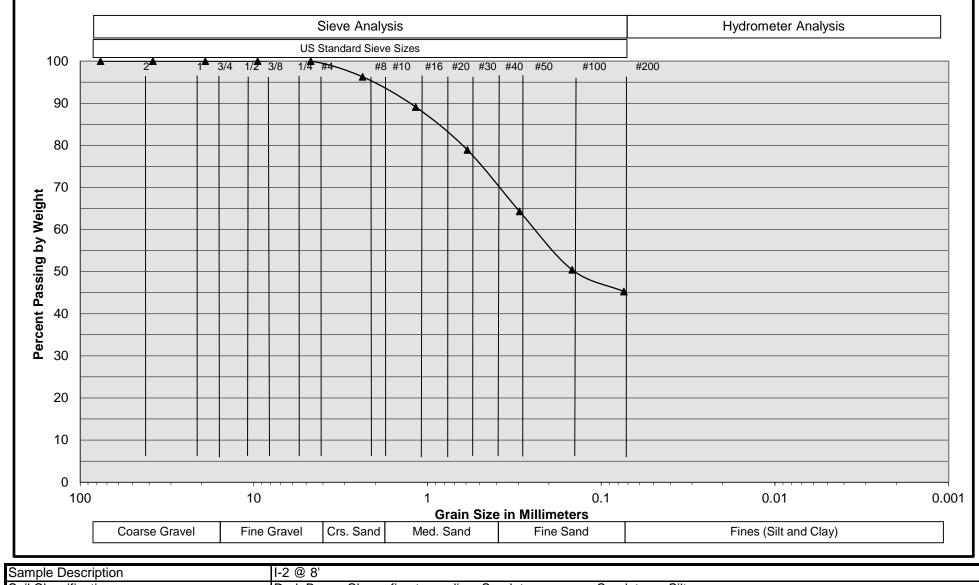
					Flow	Readings		Infiltration Rates				
			Interval	Inner	Ring	Annular	Space	Inner	Annular	Inner	Annular	
Test			Elapsed	Ring	Flow	Ring	Flow	Ring*	Space*	Ring*	Space*	
Interval		Time (hr)	(min)	(ml)	(cm ³)	(ml)	(cm ³)	(cm/hr)	(cm/hr)	(in/hr)	(in/hr)	
1	Initial	9:45 AM	30	0	50	0	0	0.14	0.00	0.05	0.00	
T	Final	10:15 AM	30	50	50	0	0	0.14	0.00	0.05	0.00	
2	Initial	10:18 AM	30	0	250	0	0	0.69	0.00	0.27	0.00	
Z	Final	10:48 AM	63	250	250	0	0	0.09	0.00	0.27	0.00	
3	Initial	10:49 AM	30	0	100	0	100	0.27	0.09	0.11	0.04	
5	Final	11:19 AM	94	100	100	100	100	0.27	0.09	0.11	0.04	
4	Initial	11:20 AM	30	0	150	0	400	0.41	0.37	0.16	0.14	
4	Final	11:50 AM	125	150	130	400	400	0.41	0.57	0.10	0.14	
5	Initial	11:51 AM	30	0	150	0	500	0.41	0.46	0.16	0.18	
5	Final	12:21 PM	156	150	130	500	500	0.41	0.40	0.10	0.10	
6	Initial	12:22 PM	30	0	150	0	300	0.41	0.27	0.16	0.11	
0	Final	12:52 PM	187	150	130	300	300	0.41	0.27	0.10	0.11	

Grain Size Distribution



Soil Classification	Dark Brown Clayey fine to medium Sand, tra	ace coarse Sand, trace Silt
Proposed Warehouse		SOUTHERN
Perris, CA		SoCalGeo CALIFORNIA
Project No. 20G239-2		GEOTECHNICAL
PLATE C-1		A California Corporation

Grain Size Distribution



Soil Classification	Dark Brown Clayey fine to medium Sand, trace coarse Sand, trace Silt	
Proposed Warehouse Perris, CA Project No. 20G239-2 PLATE C-2		SocalGeo CALIFORNIA GEOTECHNICAL A California Corporation

GEOTECHNICAL INVESTIGATION PROPOSED WAREHOUSE

NEC Patterson Avenue and Nance Street Perris, California for Duke Realty



December 22, 2020 (Report updated August 6, 2021 and December 13, 2021) SoCalGeo CALIFORNIA GEOTECHNICAL A California Corporation

Duke Realty 200 Spectrum Center Drive, Suite 1600 Irvine, California 92618

Attention: Mr. D.J. Arellano, P.E. Director, Development Services

Project No.: 20G239-3R

Subject: Geotechnical Investigation Proposed Warehouse NEC Patterson Avenue and Nance Street Perris, California

Gentlemen:

In accordance with your request, we have conducted a geotechnical investigation at the subject site. We are pleased to present this report summarizing the conclusions and recommendations developed from our investigation.

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Ricardo Frias, RCE 91772 Staff Engineer

Robert G. Trazo, GE 2655 Principal Engineer

Distribution: (1) Addressee



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- E Seismic Design Parameters
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1.0 EXECUTIVE SUMMARY

Presented below is a brief summary of the conclusions and recommendations of this investigation. Since this summary is not all inclusive, it should be read in complete context with the entire report.

Geotechnical Design Considerations

- Undocumented fill soils were encountered at one of the borings, extending to a depth of 4½± feet. Additional soils identified as possible fill were encountered at one of the borings, extending to a depth of 6½± feet. Younger alluvial soils were encountered at all of the boring locations, with the exception of Boring No. B-9, extending from the ground surface to depths of 1½ to 6½± feet.
- The near-surface alluvial soils possess varying strengths and densities. In addition, some of the younger alluvial soils possess moderate compressibility and a minor potential for hydro-collapse. These soils, in their present condition, are not considered suitable for support of the foundation loads of the new structures.
- Remedial grading will be necessary to remove a portion of the near-surface alluvial soils and replace them as compacted structural fill. Generally, the existing soils may be reused as structural fill.

Site Preparation

- Initial site stripping should include removal of any surficial vegetation from the site. Stripping should include any weeds, grasses, and any organic topsoil.
- Demolition of the existing structures, pavements and any associated improvements will be necessary to facilitate the construction of the proposed development. Debris resultant from demolition should be disposed of off-site. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills. It may also be crushed and made into crushed miscellaneous base (CMB), if desired.
- We recommend that remedial grading be performed within the proposed building area in order to remove all of the undocumented fill soils and a portion of the near-surface alluvium. The soils present within the proposed building area should be overexcavated to a depth of at least 4 feet below existing grade and to a depth of at least 4 feet below proposed building pad subgrade elevation. The proposed foundation influence zones should also be overexcavated to a depth of at least 3 feet below proposed foundation bearing grade. Additional overexcavation may be necessary in areas where loose or otherwise unsuitable soils are encountered at the base off the overexcavation.
- After overexcavation has been completed, the resulting subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting soils should be scarified and moisture conditioned to 2 to 4 percent above the optimum moisture content, to a depth of at least 12 inches. The overexcavation subgrade soils should then be recompacted under the observation of the geotechnical engineer. The previously excavated soils may then be replaced as compacted structural fill.
- The new pavement and flatwork subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.



Building Foundations

- Conventional shallow foundations, supported in newly placed compacted fill.
- 2,500 lbs/ft² maximum allowable soil bearing pressure.
- Reinforcement consisting of at least six (6) No. 5 rebars (3 top and 3 bottom), due to the presence of potentially expansive soils Additional reinforcement may be necessary for structural considerations.

Building Floor Slab

- Conventional Slab-on-grade, 6 inches thick.
- Modulus of Subgrade Reaction: 100 psi/in.
- Minimum slab reinforcement: No. 3 bars at 18 inches on center in both directions due to the presence of medium expansive soils. The actual floor slab reinforcement should be determined by the structural engineer, based on the imposed loading.

Pavements						
ASPHALT PAVEMENTS (R = 30)						
Thickness (inches)						
Mataviala	Auto Parking and	uto Parking and Truck Traffic				
Materials	Auto Drive Lanes $(TI = 4.0 \text{ to } 5.0)$	TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0	
Asphalt Concrete	3	31⁄2	4	5	51⁄2	
Aggregate Base	6	8	10	11	13	
Compacted Subgrade	12	12	12	12	12	

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 30)				
Thickness (inches)				
Materials	Autos and Light	Truck Traffic		
Platenais	Truck Traffic (TI = 6.0)	TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	51⁄2	61⁄2	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12



2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Change Order Nos. 20G239-CO and 20G239-CO2, dated July 6, 2021 and November 24, 2021, respectively. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slab, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.



3.1 Site Conditions

The subject site is located at the northeast corner of Nance Street and Patterson Avenue in Perris, California, and extends $300\pm$ feet south of Nance Street. The site is bounded to the north by existing single-family residences (SFRs), and vacant land, to the west by Patterson Avenue, to the south by an existing commercial/industrial building, and to the east by Nevada Avenue and the March Air Reserve Base. The general location of the site is illustrated on the Site Location Map, included as Plate 1 of this report.

The site consists of several rectangular to triangular-shaped parcels which total $33.71\pm$ acres in size. The site is mostly vacant and undeveloped, except a trailer drop lot in the northwesternmost parcel and a $40\pm$ feet by $40\pm$ feet concrete slab-on-grade located in the east-central region of the site. Ground surface cover within the trailer drop-lot consists of old/degraded crushed aggregate base (CAB) pavements with areas of open-graded gravel, and isolated areas of exposed soils with sparse native grass and weed growth. In the remainder of the site, ground surface cover consists of exposed soil with moderate to dense native grass and weed growth.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth, and visual observations made at the time of the subsurface investigation, the overall site topography slopes gently downward to the north at a gradient of $\frac{1}{2}$ percent. There is approximately 4± feet of elevation differential across the overall site.

3.2 Proposed Development

SCG was provided with a site plan by the client. Based on this site plan, the site will be developed with one (1) building, 769,668 \pm ft² in size, in the central area of the site. Dock-high doors will be constructed along portions of the eastern and western building walls. Additional parking areas will surround the building. The building will be surrounded by asphaltic concrete pavements in the parking and drive lanes, Portland cement concrete pavements in the loading dock areas, and limited areas of concrete flatwork and landscape planters throughout.

Detailed structural information has not been provided. It is assumed that the new building will be a single-story structure of tilt-up concrete construction, typically supported on conventional shallow foundation systems with concrete slab-on-grade floors. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 4 to 7 kips per linear foot, respectively.

No significant amounts of below-grade construction, such as basements or crawl spaces, are expected to be included in the proposed development. Based on the assumed topography, cuts and fills of up to $2\pm$ feet are expected to be necessary to achieve the proposed site grades.



3.3 Previous Study

Southern California Geotechnical, Inc. (SCG) previously performed a geotechnical investigation for the subject sites. The results of this study is presented in the referenced report:

<u>Geotechnical Investigation, Proposed Warehouse, NEC Patterson Avenue and Nance Street, Perris, California</u>, prepared by Southern California Geotechnical, Inc. (SCG) for Duke Realty, SCG Project No. 20G239-1, dated December 22, 2020.

As part of this investigation, a total of seven (7) borings, advanced to depths of 10 to 25± feet below currently existing site grades. Native alluvium was encountered at the ground surface at all of boring locations, extending to the maximum explored depth of 25± feet below existing site grades. The near-surface native alluvial soils extending from the ground surface to depths of $1\frac{1}{2}$ to $6\frac{1}{2}$ feet, were classified as younger alluvium. The younger alluvium generally possesses lower densities than the soils classified as older alluvium. The younger alluvium generally consists of medium dense to dense silty sands, sandy silts, and clayey sands. At Boring No. B-4 a layer of hard sandy clay was encountered. Older native alluvial soils were encountered beneath the younger native alluvial soils at all of the boring locations. The soils classified as older alluvium generally possess higher densities than the younger alluvial soils, many samples were observed to be weakly to moderately cemented. Most of the older alluvial soils encountered at the boring locations consist of medium dense to very dense silty sands, sandy silts, and clayey sands. Older alluvial soils also consisted of stiff to hard sandy clays and varying amounts of silt. Older native alluvial soils extended to at least the maximum depths explored at all of the boring locations. Groundwater was not encountered at any of the boring locations.



4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of three (3) borings advanced to depths of 20 to $25\pm$ feet below the existing site grades. Including the subsurface exploration discussed in the referenced report, a total of ten (10) borings were advanced to depths of 10 to $30\pm$ feet below existing site grades. All of the borings were logged during drilling by a member of our staff.

All of the borings were advanced with hollow-stem augers by a conventional truck-mounted drilling rig. Representative bulk and relatively undisturbed soil samples were taken during drilling. Relatively undisturbed soil samples were taken with a split barrel "California Sampler" containing a series of one inch long, $2.416\pm$ inch diameter brass rings. This sampling method is described in ASTM Test Method D-3550. Samples were also taken using a $1.4\pm$ inch inside diameter split spoon sampler, in general accordance with ASTM D-1586. Both of these samplers are driven into the ground with successive blows of a 140-pound weight falling 30 inches. The blow counts obtained during driving are recorded for further analysis. Bulk samples were collected in plastic bags to retain their original moisture content. The relatively undisturbed ring samples were placed in molded plastic sleeves that were then sealed and transported to our laboratory.

The approximate locations of the borings are indicated on the Boring Location Plan, included as Plate 2 in Appendix A of this report. The Boring Logs, which illustrate the conditions encountered at the boring locations, as well as the results of some of the laboratory testing, are included in Appendix B.

4.2 Geotechnical Conditions

Possible Fill

Possible fill soils were encountered at Boring No. B-10, extending to depths of $6\frac{1}{2}\pm$ feet below existing site grades. The possible fill soils consist of loose to medium dense silty fine to medium sands with trace quantities of clay. The possible fill soils possessed a disturbed appearance, was surrounded by surficial trash debris, and possessed uncharacteristic blow counts. Historic aerials indicate that the area drilled was disturbed in 2009 during the development of the northern parcel.

Artificial Fill

Artificial fill soils were encountered at the ground surface of Boring No. B-8, extending to a depth of $4\frac{1}{2}$ feet below existing site grades. The artificial fill soils consisted of medium dense silty fine sands with trace quantities of clay and medium to coarse sands. The fill soils



possessed a disturbed appearance. Review of historic aerial photographs indicate that a building was present within this portion of the site in 2014.

Older Alluvium

Older alluvial soils were encountered at the ground surface at Boring No. B-9, and beneath the artificial fill soils and possible fill soils at all of the boring locations, extending to at least the maximum depth explored of 25± feet below existing site grades. The older alluvial soils generally consist of medium dense to dense silty fine sands, medium dense to very dense fine to medium sands, and very dense silty fine to coarse sands. Variable clay and calcareous nodule/veining were encountered within the older alluvial strata.

Groundwater

Groundwater was not encountered at any of the boring locations. Based on the lack of any water within the borings, and the moisture contents of the recovered soil samples, the static groundwater table is considered to have existed at a depth in excess of $25\pm$ feet below existing site grades, at the time of the subsurface investigation.

Recent water level data was obtained from the California Department of Water Resources Water Data Library website, <u>http://wdl.water.ca.gov/</u>. The nearest monitoring well on record is located $60\pm$ feet south of the site. Water level readings within this monitoring well indicate a groundwater level of 72± feet below the ground surface in March 2020.



5.0 LABORATORY TESTING

The soil samples recovered from the subsurface exploration were returned to our laboratory for further testing to determine selected physical and engineering properties of the soils. The tests are briefly discussed below. It should be noted that the test results are specific to the actual samples tested, and variations could be expected at other locations and depths.

Classification

All recovered soil samples were classified using the Unified Soil Classification System (USCS), in accordance with ASTM D-2488. Field identifications were then supplemented with additional visual classifications and/or by laboratory testing. The USCS classifications are shown on the Boring Logs and are periodically referenced throughout this report.

Density and Moisture Content

The density has been determined for selected relatively undisturbed ring samples. These densities were determined in general accordance with the method presented in ASTM D-2937. The results are recorded as dry unit weight in pounds per cubic foot. The moisture contents are determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Consolidation

Selected soil samples have been tested to determine their consolidation and collapse potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 through C-3 in Appendix C of this report.

Maximum Dry Density and Optimum Moisture Content

A representative bulk sample from our previous study has been tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557, and are included in Appendix F of this report. These tests are generally used to with compare the dry densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

Expansion Index

The expansion potential of the on-site soils was determined in general accordance with ASTM D-4829. The testing apparatus is designed to accept a 4-inch diameter, 1-in high, remolded sample. The sample is initially remolded to 50 ± 1 percent saturation and then loaded with a



surcharge equivalent to 144 pounds per square foot. The sample is then inundated with water, and allowed to swell against the surcharge. The resultant swell or consolidation is recorded after a 24-hour period. The results of the EI testing are as follows:

Sample Identification	Expansion Index	Expansive Potential
B-4 @ 0 to 5 feet (Previous Study)	53	Medium

Soluble Sulfates

A representative sample of the near-surface soils has been submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes into contact with these soils. The results of the soluble sulfate testing are presented below, and are discussed further in a subsequent section of this report.

Sample Identification	Soluble Sulfates (%)	Sulfate Classification
B-2 @ 0 to 5 feet (Previous Study)	0.005	Not Applicable (S0)
B-10 @ 0 to 5 feet	0.003	Not Applicable (S0)

Corrosivity Testing

A representative sample of the near-surface soils has been submitted to a subcontracted corrosion engineering laboratory to identify potentially corrosive characteristics with respect to common construction materials. The corrosivity testing included a determination of the electrical resistivity, pH, and chloride and nitrate concentrations of the soils, as well as other tests. The results of some of these tests are presented below.

Sample Identification	<u>Saturated Resistivity</u> (ohm-cm)	<u>рН</u>	<u>Chlorides</u> (mg/kg)	<u>Nitrates</u> (mg/kg)
B-2 @ 0 to 5 feet (Previous Study)	2,280	7.8	42	42
B-10 @ 0 to 5 feet	3,640	7.5	14	23



6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our review, field exploration, laboratory testing and geotechnical analysis, the proposed development is considered feasible from a geotechnical standpoint. The recommendations contained in this report should be taken into the design, construction, and grading considerations.

The recommendations are contingent upon all grading and foundation construction activities being monitored by the geotechnical engineer of record. The recommendations are provided with the assumption that an adequate program of client consultation, construction monitoring, and testing will be performed during the final design and construction phases to verify compliance with these recommendations. Maintaining Southern California Geotechnical, Inc., (SCG) as the geotechnical consultant from the beginning to the end of the project will provide continuity of services. The geotechnical engineering firm providing testing and observation services shall assume the responsibility of Geotechnical Engineer of Record.

The Grading Guide Specifications, included as Appendix D, should be considered part of this report, and should be incorporated into the project specifications. The contractor and/or owner of the development should bring to the attention of the geotechnical engineer any conditions that differ from those stated in this report, or which may be detrimental for the development.

6.1 Seismic Design Considerations

The subject site is located in an area which is subject to strong ground motions due to earthquakes. The performance of a site-specific seismic hazards analysis was beyond the scope of this investigation. However, numerous faults capable of producing significant ground motions are located near the subject site. Due to economic considerations, it is not generally considered reasonable to design a structure that is not susceptible to earthquake damage. Therefore, significant damage to structures may be unavoidable during large earthquakes. The proposed structures should, however, be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage and loss of life.

Faulting and Seismicity

Research of available maps indicates that the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Furthermore, SCG did not identify any evidence of faulting during the geotechnical investigation. Therefore, the possibility of significant fault rupture on the site is considered to be low.

The potential for other geologic hazards such as seismically induced settlement, lateral spreading, tsunamis, inundation, seiches, flooding, and subsidence affecting the site is considered low.



Seismic Design Parameters

The 2019 California Building Code (CBC) provides procedures for earthquake resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. The seismic design parameters presented below are based on the soil profile and the proximity of known faults with respect to the subject site.

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2019 edition of the California Building Code (CBC), which was adopted on January 1, 2020.

The 2019 CBC Seismic Design Parameters have been generated using the <u>SEAOC/OSHPD</u> <u>Seismic Design Maps Tool</u>, a web-based software application available at the website www.seismicmaps.org. This software application calculates seismic design parameters in accordance with several building code reference documents, including ASCE 7-16, upon which the 2019 CBC is based. The application utilizes a database of risk-targeted maximum considered earthquake (MCE_R) site accelerations at 0.01-degree intervals for each of the code documents. The tables below were created using data obtained from the application. The output generated from this program is included as Plate E-1 in Appendix E of this report.

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S₁ value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." **Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.4.8 applies to the proposed structure at this site. However, the structure. Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients (F_a and F_v) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.**

Parameter	Value	
Mapped Spectral Acceleration at 0.2 sec Period	Ss	1.500
Mapped Spectral Acceleration at 1.0 sec Period	S ₁	0.576
Site Class		D
Site Modified Spectral Acceleration at 0.2 sec Period	Sms	1.500
Site Modified Spectral Acceleration at 1.0 sec Period	S _{M1}	0.993
Design Spectral Acceleration at 0.2 sec Period	S _{DS}	1.000
Design Spectral Acceleration at 1.0 sec Period	S _{D1}	0.662

2019 CBC SEISMIC DESIGN PARAMETERS



It should be noted that the site coefficient F_v and the parameters S_{M1} and S_{D1} were not included in the <u>SEAOC/OSHPD Seismic Design Maps Tool</u> output for the 2019 CBC. We calculated these parameters-based on Table 1613.2.3(2) in Section 16.4.4 of the 2019 CBC using the value of S_1 obtained from the <u>Seismic Design Maps Tool</u>, assuming that a site-specific ground motion hazards analysis is not required for the proposed buildings at this site.

Liquefaction

Liquefaction is the loss of strength in generally cohesionless, saturated soils when the porewater pressure induced in the soil by a seismic event becomes equal to or exceeds the overburden pressure. The primary factors which influence the potential for liquefaction include groundwater table elevation, soil type and plasticity characteristics, relative density of the soil, initial confining pressure, and intensity and duration of ground shaking. The depth within which the occurrence of liquefaction may impact surface improvements is generally identified as the upper 50 feet below the existing ground surface. Liquefaction potential is greater in saturated, loose, poorly graded fine sands with a mean (d_{50}) grain size in the range of 0.075 to 0.2 mm (Seed and Idriss, 1971). Non-sensitive clayey (cohesive) soils which possess a plasticity index of at least 18 (Bray and Sancio, 2006) are generally not considered to be susceptible to liquefaction, nor are those soils which are above the historic static groundwater table.

The Riverside County GIS website indicates that the subject site is located within a zone of low liquefaction susceptibility. In addition, the subsurface conditions encountered at the boring locations are not considered to be conducive to liquefaction. These conditions consist of moderate to high strength older native alluvial soils and no evidence of a long-term groundwater table within the depths explored by the borings. Based on these considerations, liquefaction is not considered to be a design concern for this project.

6.2 Geotechnical Design Considerations

<u>General</u>

Undocumented fill soils were encountered at Boring No. B-8 extending to a depth of $4\frac{1}{2}$ + feet. Possible fill soils were encountered at Boring No. B-10 extending to a depth of 61/2± feet. All of the other borings encountered native alluvium at the ground surface. The near-surface native alluvial soils extending from the ground surface to depths of $1\frac{1}{2}$ to $6\frac{1}{2}$ feet, were classified as younger alluvium, except for Boring No. B-9. The younger alluvium generally consists of medium dense to dense silty sands, sandy silts, and clayey sands. Some of the borings encountered relatively lower strength younger soils within the upper 3 to $6\frac{1}{2}\pm$ feet below the ground surface. The results of consolidation/collapse testing indicate that some of the nearsurface alluvium encountered with the upper 6± feet possess minor collapse potential and moderate compressibility when inundated with water. All of the borings also encountered older alluvial soils directly beneath artificial fill soils, possible fill soils, and the younger alluvium. The older alluvial soils generally possess moderate to high strengths and favorable consolidation/collapse characteristics. Remedial grading is considered warranted within the proposed building area in order to remove all of the undocumented fill soils in their entirety, and a portion of the near-surface alluvium, and any soils disturbed during the demolition process, and replace these materials as compacted structural fill soils.



<u>Settlement</u>

The recommended remedial grading will remove all of the undocumented fill soils and a portion of the near-surface native alluvium, including potentially collapsible/compressible soils. The native soils that will remain in place below the recommended depth of overexcavation will not be subject to significant load increases from the foundations of the new structure. Provided that the recommended remedial grading is completed, the post-construction static settlements of the proposed structure is expected to be within tolerable limits.

Soluble Sulfates

The results of the soluble sulfate testing indicate that the selected samples of the on-site soils contain negligible concentrations of soluble sulfates, in accordance with American Concrete Institute (ACI) guidelines. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at pad grade within the building area.

Expansion

The near-surface soils at this site generally consist of silty sands and sandy silts with varying clay content and occasional sandy clays. Laboratory testing indicates that the on-site soils possess medium expansion potential (EI=53). The foundation and floor slab design recommendations contained within this report are made in consideration of the expansion index test results. It is recommended that additional expansion index testing be conducted at the completion of rough grading to verify the expansion potential of the as-graded building pad.

Corrosion Potential

The results of laboratory testing indicate that the on-site soils possess saturated resistivity values of 2,280 and 3,640 ohm-cm, and a pH values of 7.5 and 7.8. These test results have been evaluated in accordance with guidelines published by the Ductile Iron Pipe Research Association (DIPRA). The DIPRA guidelines consist of a point system by which characteristics of the soils are used to quantify the corrosivity characteristics of the site. Sulfides, and redox potential are factors that are also used in the evaluation procedure. We have evaluated the corrosivity characteristics of the on-site soils using resistivity, pH, and moisture content. Based on these factors, and utilizing the DIPRA procedure, **the on-site soils are considered to be slightly corrosive to ductile iron pipe. Therefore, polyethylene encasement or some other appropriate method of protection may be required for iron pipes.** Since SCG does not practice in the area of corrosion engineering, the client may also wish to contact a corrosion engineer to provide a more thorough evaluation.

Based on American Concrete Institute (ACI) Publication 318 <u>Building Code Requirements for</u> <u>Structural Concrete and Commentary</u>, reinforced concrete that is exposed to external sources of chlorides requires corrosion protection for the steel reinforcement contained within the concrete. ACI 318 defines concrete exposed to moisture and an external source of chlorides as "severe" or exposure category C2. ACI 318 does not clearly define a specific chloride concentration at which contact with the adjacent soil will constitute a "C2" or severe exposure.



However, the Caltrans <u>Memo to Designers 10-5</u>, <u>Protection of Reinforcement Against Corrosion</u> <u>Due to Chlorides</u>, <u>Acids and Sulfates</u>, dated June 2010, indicates that soils possessing chloride concentrations greater than 500 mg/kg are considered to be corrosive to reinforced concrete. The results of the laboratory testing indicate chloride concentrations of 14 and 42 mg/kg. Although the soils contain some chlorides, we do not expect that the chloride concentrations of the tested soils are high enough to constitute a "severe" or C2 chloride exposure. Therefore, a chloride exposure category of C1 is considered appropriate for this site. Since SCG does not practice in the area of corrosion engineering, the client may also wish to contact a corrosion engineer to provide a more thorough evaluation.

<u>Nitrates</u>

Nitrates present in soil can be corrosive to copper tubing at concentrations greater than 50 mg/kg. The tested sample possesses a nitrate concentration of 23 and 42 mg/kg. Based on this test result, the on-site soils are not considered to be corrosive to copper pipe. Since SCG does not practice in the area of corrosion engineering, we recommend that the client contact a corrosion engineer to provide a more thorough evaluation.

Shrinkage/Subsidence

Based on the results of the laboratory testing, removal and recompaction of the near-surface native alluvium will result in an average shrinkage of 2 to 12 percent. However, the estimated shrinkage of the individual soil layers at the site is highly variable, locally ranging from a minimum shrinkage value of 1 percent to a maximum shrinkage of 16 percent at varying sample depths and locations. It should be noted that the potential shrinkage estimate is based on dry density testing performed on small-diameter samples taken at the boring locations. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test-pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

These estimates are based on previous experience and the subsurface conditions encountered at the boring locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely.

Grading and Foundation Plan Review

It is recommended that we be provided with copies of the grading and foundation plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

The grading recommendations presented below are based on the subsurface conditions encountered at the boring locations and our understanding of the proposed development. We recommend that all grading activities be completed in accordance with the Grading Guide



Specifications included as Appendix D of this report, unless superseded by site-specific recommendations presented below.

Site Stripping

Demolition of the existing structures and pavements will be necessary in order to facilitate the construction of the proposed development. Demolition should include all foundations, floor slabs, utilities and any other subsurface improvements that will not remain in place with the new development. Debris resultant from demolition should be disposed of off-site. Alternatively, concrete and asphalt debris may be crushed to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills.

Initial site preparation should include stripping of any surficial vegetation and organic soils. Based on conditions encountered at the time of the subsurface exploration, stripping of native grass and weed growth is expected to be necessary throughout the majority of the site. Any trash should also be disposed of prior to site grading. These materials should be disposed of off-site. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

Treatment of Existing Soils: Building Pad

Remedial grading should be performed within the proposed building pad area in order to remove all of the undocumented fill soils and a portion of the existing younger alluvial soils. In general, it is recommended that the overexcavation extend to a depth of at least 4 feet below existing grade, and to a depth of at least 4 feet below proposed grade, whichever is greater. Within the influence zones of the new foundations, the overexcavation should extend to a depth of at least 3 feet below proposed foundation bearing grade.

The overexcavation areas should extend at least 5 feet beyond the building perimeters, and to an extent equal to the depth of fill below the new foundations. If the proposed structure incorporates any exterior columns (such as for a canopy or overhang) the area of overexcavation should also encompass these areas.

Following completion of the overexcavation, the subgrade soils within the overexcavation areas should be evaluated by the geotechnical engineer to verify their suitability to serve as the structural fill subgrade, as well as to support the foundation loads of the new structure. This evaluation should include proofrolling and probing to identify any soft, loose, or otherwise unstable soils that must be removed. **Some localized areas of deeper excavation will be required if additional loose, porous, overly moist, dry, or low-density native soils or if additional undocumented fill soils are encountered at the base of the overexcavation.**

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches and moisture conditioned or air dried to achieve a moisture content of 2 to 4 percent above optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.



The building pad area may then be raised to grade with previously excavated soils or imported, very low expansive structural fill. All structural fill soils present within the proposed building area should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density.

Treatment of Existing Soils: Retaining Walls and Site Walls

The existing soils within the areas of any proposed retaining walls and site walls should be overexcavated to a depth of 3 feet below foundation bearing grade and replaced as compacted structural fill as discussed above for the proposed building pad. Any undocumented fill soils or disturbed native alluvium within any of these foundation areas should be removed in their entirety. The overexcavation areas should extend at least 5 feet beyond the foundation perimeters, and to an extent equal to the depth of fill below the new foundations. Any erection pads for tilt-up concrete walls are considered to be part of the foundation system. Therefore, these overexcavation recommendations are applicable to erection pads. The overexcavation subgrade soils should be evaluated by the geotechnical engineer prior to scarifying, moisture conditioning to within 2 to 4 percent above the optimum moisture content, and recompacting the upper 12 inches of exposed subgrade soils. The previously excavated soils may then be replaced as compacted structural fill.

If the full lateral recommended remedial grading cannot be completed for the proposed retaining walls and site walls located along property lines, the foundations for those walls should be designed using a reduced allowable bearing pressure. Furthermore, the contractor should take necessary precautions to protect the adjacent structures during rough grading. Specialized grading techniques, such as A-B-C slot cuts, will likely be required during remedial grading. The geotechnical engineer of record should be contacted if additional recommendations, such as shoring design recommendations, are required during grading.

Treatment of Existing Soils: Parking Areas

Based on economic considerations, overexcavation of the existing near-surface soils in the new parking and drive areas is not considered warranted, with the exception of areas where lower strength, or unstable soils are identified by the geotechnical engineer during grading.

Subgrade preparation in the new parking and drive areas should initially consist of removal of all soils disturbed during stripping. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of $12\pm$ inches, moisture conditioned to 2 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of variable strength surficial soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within the proposed parking areas. The grading recommendations presented above do not completely mitigate the extent of undocumented fill soils or low strength younger alluvium in the parking areas. As such, settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the parking



and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to 2 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer.
- All grading and fill placement activities should be completed in accordance with the requirements of the 2019 CBC and the grading code of the city of Perris.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Fill soils should be well mixed.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Imported Structural Fill

All imported structural fill should consist of low expansive (EI < 50), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve). Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

Utility Trench Backfill

In general, all utility trench backfill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. As an alternative, a clean sand (minimum Sand Equivalent of 30) may be placed within trenches and compacted in place (jetting or flooding is not recommended). Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by the city of Perris. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

Utility trenches which parallel a footing, and extending below a 1h:1v plane projected from the outside edge of the footing should be backfilled with structural fill soils, compacted to at least 90 percent of the ASTM D-1557 standard. Pea gravel backfill should not be used for these trenches.

6.4 Construction Considerations

Excavation Considerations

The near-surface soils generally consist of silty sands, clayey sands, sandy silts and sandy clays. Some of these materials will likely be subject to minor caving within shallow excavations. Where



caving occurs within shallow excavations, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 2:1v. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

Moisture Sensitive Subgrade Soils

Most of the near surface soils possess appreciable silt and clay content and may become unstable if exposed to significant moisture infiltration or disturbance by construction traffic. In addition, based on their granular content, some of the on-site soils will also be susceptible to erosion. The site should, therefore, be graded to prevent ponding of surface water and to prevent water from running into excavations.

Expansive Soils

Some of the near surface soils have been determined to possess medium expansion potentials. Therefore, care should be given to proper moisture conditioning of all building pad subgrade soils to a moisture content of 2 to 4 percent above the Modified Proctor optimum during site grading. All imported fill soils should have low expansive (EI < 50) characteristics. **In addition** to adequately moisture conditioning the subgrade soils and fill soils during grading, special care must be taken to maintain moisture content of these soils at 2 to 4 percent above the Modified Proctor optimum. This will require the contractor to frequently moisture condition these soils throughout the grading process, unless grading occurs during a period of relatively wet weather.

Due to the presence of expansive soils at this site, provisions should be made to limit the potential for surface water to penetrate the soils immediately adjacent to the structures. These provisions should include directing surface runoff into rain gutters and area drains, reducing the extent of landscaped areas around the structure, and sloping the ground surface away from the building. Where possible, it is recommended that landscaped planters not be located immediately adjacent to the building. If landscaped planters around the buildings are necessary, it is recommended that drought tolerant plants or a drip irrigation system be utilized, to minimize the potential for deep moisture penetration around the structures. Presented below is a list of additional soil moisture control recommendations that should be considered by the owner, developer, and civil engineer:

- Ponding and areas of low flow gradients in unpaved walkways, grass and planter areas should be avoided. In general, minimum drainage gradients of 2 percent should be maintained in unpaved areas.
- Bare soil within five feet of proposed structures should be sloped at a minimum five percent gradient away from the structures (about three inches of fall in five feet), or the same area could be paved with a minimum surface gradient of one percent. Pavement is preferable.
- Decorative gravel ground cover tends to provide a reservoir for surface water and may hide areas of ponding or poor drainage. Decorative gravel is, therefore, not recommended and should not be utilized for landscaping unless equipped with a subsurface drainage system designed by a licensed landscape architect.
- Positive drainage devices, such as graded swales, paved ditches, and catch basins should be installed at appropriate locations within the area of proposed development.



- Concrete walks and flatwork should not obstruct the free flow of surface water to the appropriate drainage devices.
- Area drains should be recessed below grade to allow free flow of water into the drain. Concrete or brick flatwork joints should be sealed with mortar or flexible mastic.
- Gutter and downspout systems should be installed to capture all discharge from roof areas. Downspouts should discharge directly into a pipe or paved surface system to be conveyed offsite.
- Enclosed planters adjoining, or in close proximity to proposed structures, should be sealed at the bottom and provided with subsurface collection systems and outlet pipes.
- Depressed planters should be raised with soil to promote runoff (minimum drainage gradient two percent or five percent, see above), and/or equipped with area drains to eliminate ponding.
- Drainage outfall locations should be selected to avoid erosion of slopes and/or properly armored to prevent erosion of graded surfaces. No drainage should be directed over or towards adjoining slopes.
- All drainage devices should be maintained on a regular basis, including frequent observations during the rainy season to keep the drains free of leaves, soil and other debris.
- Landscape irrigation should conform to the recommendations of the landscape architect and should be performed judiciously to preclude either soaking or excessive drying of the foundation soils. This should entail regular watering during the drier portions of the year and little or no irrigation during the rainy season. Automatic sprinkler systems should, therefore, be switched to manual operation during the rainy season. Good irrigation practice typically requires frequent application of limited quantities of water that are sufficient to sustain plant growth, but do not excessively wet the soils. Ponding and/or run-off of irrigation water are indications of excessive watering.

Other provisions, as determined by the landscape architect or civil engineer, may also be appropriate.

<u>Groundwater</u>

The static groundwater table is considered to exist at a depth greater than $25\pm$ feet or more below existing grade. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pad will be underlain by newly placed structural fill soils extending to depths of at least 3 feet below foundation bearing grade. Based on this subsurface profile, the proposed structure may be supported on shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 2,500 lbs/ft².
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Six (6) No. 5 rebars (3 top and 3 bottom), due to the presence of potentially expansive soils.



- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 24 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.
- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressures presented above may be increased by 1/3 when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on standard geotechnical practice. Additional rigidity may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

The foundation subgrade soils should be evaluated at the time of overexcavation, as discussed in Section 6.3 of this report. It is further recommended that the foundation subgrade soils be evaluated by the geotechnical engineer immediately prior to steel or concrete placement. Soils suitable for direct foundation support should consist of newly placed structural fill compacted at least 90 percent of the ASTM D-1557 maximum dry density. Any unsuitable materials should be removed to a depth of suitable bearing compacted structural fill, with the resulting excavations backfilled with compacted fill soils. As an alternative, lean concrete slurry (500 to 1,500 psi) may be used to backfill such isolated overexcavations.

The foundation subgrade soils should also be properly moisture conditioned to 2 to 4 percent above the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade. Since it is typically not feasible to increase the moisture content of the floor slab and foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process.

Estimated Foundation Settlements

Post-construction total and differential static settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be less than 1.0 and 0.5 inches, respectively, under static conditions. Differential movements are expected to occur over a 30-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch.

Lateral Load Resistance

Lateral load resistance will be developed by a combination of friction acting at the base of foundations and slabs and the passive earth pressure developed by footings below grade. The following friction and passive pressure may be used to resist lateral forces:

- Passive Earth Pressure: 300 lbs/ft³
- Friction Coefficient: 0.28



These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill soils. The maximum allowable passive pressure is 2,500 lbs/ft².

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slab should be prepared in accordance with the recommendations contained in the *Site Grading Recommendations* section of this report. Based on the anticipated grading which will occur at this site, the floor of the proposed structure may be constructed as a conventional slab-on-grade supported on newly placed structural fill, extending to a depth of at least 4 feet below finished pad grade. Based on geotechnical considerations, the floor slabs may be designed as follows:

- Minimum slab thickness: 6 inches.
- Modulus of Subgrade Reaction: 100 psi/in.
- Minimum slab reinforcement: No. 3 bars at 18-inches on-center, in both directions, due to the presence of medium expansive soils at this site. The actual floor slab reinforcement should be determined by the structural engineer, based upon the imposed loading.
- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire slab area where such moisture sensitive floor coverings are expected. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as 15 mil Stego[®] Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.
- Moisture condition the floor slab subgrade soils to 2 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.
- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.
- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.



The actual design of the floor slab should be completed by the structural engineer to verify adequate thickness and reinforcement.

6.7 Retaining Wall Design and Construction

Although not indicated on the site plan, some small (less than 6 feet in height) retaining walls may be required in truck court area and to facilitate the new site grades. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring locations, the following parameters may be used in the design of new retaining walls for this site. We have provided parameters assuming the use of on-site soils for retaining wall backfill. The on-site soils generally consist of silty sands, sandy silts, clayey sands and sandy clays. Based on their classifications, the on-site soils consisting of silty sands and sandy silts are generally expected to possess a friction angle of at least 30 degrees when compacted to 90 percent of the ASTM-1557 maximum dry density. **However, clayey sands and sandy clay soils should not be used to backfill retaining walls because they likely possess higher expansion potential and lower strengths than the majority of the near-surface soils at the site.**

If desired, SCG could provide design parameters for an alternative select backfill material behind the retaining walls. The use of select backfill material could result in lower lateral earth pressures. In order to use the design parameters for the imported select fill, this material must be placed within the entire active failure wedge. This wedge is defined as extending from the heel of the retaining wall upwards at an angle of approximately 60° from horizontal. If select backfill material behind the retaining wall is desired, SCG should be contacted for supplementary recommendations.

		Soil Type
Des	On-Site Silty Sands and Sandy Silts	
Interna	30 °	
	136 lbs/ft ³	
	Active Condition (level backfill)	46 lbs/ft ³
Equivalent Fluid	Active Condition (2h:1v backfill)	73 lbs/ft ³
Pressure:	At-Rest Condition (level backfill)	68 lbs/ft ³

RETAINING WALL DESIGN PARAMETERS

Regardless of the backfill type, the walls should be designed using a soil-footing coefficient of friction of 0.28 and an equivalent passive pressure of 300 lbs/ft³. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.



The active earth pressure may be used for the design of retaining walls that do not directly support structures or support soils that in turn support structures and which will be allowed to deflect. The at-rest earth pressure should be used for walls that will not be allowed to deflect such as those which will support foundation bearing soils, or which will support foundation loads directly.

Where the soils on the toe side of the retaining wall are not covered by a "hard" surface such as a structure or pavement, the upper 1 foot of soil should be neglected when calculating passive resistance due to the potential for the material to become disturbed or degraded during the life of the structure.

Seismic Lateral Earth Pressures

In accordance with the 2019 CBC, any retaining walls more than 6 feet in height must be designed for seismic lateral earth pressures. If walls 6 feet or more are required for this site, the geotechnical engineer should be contacted for supplementary seismic lateral earth pressure recommendations.

Retaining Wall Foundation Design

The retaining wall foundations should be supported within newly placed compacted structural fill, extending to a depth of at least 3 feet below proposed foundation bearing grade. Foundations to support new retaining walls should be designed in accordance with the general Foundation Design Parameters presented in a previous section of this report.

Backfill Material

With the exception of sandy clays and clayey sands, on-site soils may be used for retaining wall backfill. However, all backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

It is recommended that a minimum 1-foot thick layer of free-draining granular material (less than 5 percent passing the No. 200 sieve) be placed against the face of the retaining walls. This material should extend from the top of the retaining wall footing to within 1 foot of the ground surface on the back side of the retaining wall. This material should be approved by the geotechnical engineer. In lieu of the 1-foot thick layer of free-draining material, a properly installed prefabricated drainage composite such as the MiraDRAIN 6000XL (or approved equivalent), which is specifically designed for use behind retaining walls, may be used. If the layer of free-draining material is not covered by an impermeable surface, such as a structure or pavement, a 12-inch thick layer of a low permeability soil should be placed over the backfill to reduce surface water migration to the underlying soils. The layer of free draining granular material should be separated from the backfill soils by a suitable geotextile, approved by the geotechnical engineer.

All retaining wall backfill should be placed and compacted under engineering-controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557).



Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

As previously indicated, the retaining wall design parameters are based upon drained backfill conditions. Consequently, some form of permanent drainage system will be necessary in conjunction with the appropriate backfill material. Subsurface drainage may consist of either:

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.
- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

Weep holes or a footing drain will not be required for building stem walls.

6.8 Pavement Design Parameters

Site preparation in the pavement area should be completed as previously recommended in the **Site Grading Recommendations** section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The on-site soils generally consist of silty sands, sandy silts, clayey sands, and sandy clays. These materials are expected to exhibit fair to good pavement support characteristics, with estimated R-values between 30 and 50. Therefore the subsequent pavement design is based upon a conservative R-value of 30. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering-controlled conditions. It is recommended that additional R-value testing be performed after completion of rough grading to verify the pavement support characteristics of the pavement subgrades following site grading.

Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the



traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20 year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35

For the purpose of the traffic volumes indicated above, a truck is defined as a 5-axle tractor trailer unit with one 8-kip axle and two 32-kip tandem axles. All of the traffic indices allow for 1,000 automobiles per day.

automobiles per day.

ASPHALT PAVEMENTS (R=30)										
Thickness (inches)										
	Auto Parking and		Truck	Traffic						
Materials	Auto Drive Lanes $(TI = 4.0 \text{ to } 5.0)$	TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0					
Asphalt Concrete	3	31/2	4	5	51⁄2					
Aggregate Base	6 8		10	11	13					
Compacted Subgrade	12	12	12	12	12					

The aggregate base course should be compacted to at least 95 percent of the ASTM D-1557 maximum dry density. The asphaltic concrete should be compacted to at least 95 percent of the Marshall maximum density, as determined by ASTM D-2726. The aggregate base course may consist of crushed aggregate base (CAB) or crushed miscellaneous base (CMB), which is a recycled gravel, asphalt and concrete material. The gradation, R-Value, Sand Equivalent, and Percentage Wear of the CAB or CMB should comply with appropriate specifications contained in the current edition of the "Greenbook" <u>Standard Specifications for Public Works Construction</u>.

Portland Cement Concrete

The preparation of the subgrade soils within concrete pavement areas should be performed as previously described for proposed asphalt pavement areas. The minimum recommended thicknesses for the Portland Cement Concrete pavement sections are as follows:



PORTLAND CEMENT CONCRETE PAVEMENTS (R=30)									
	Thickness (inches)								
Materials	Autos and Light		Truck Traffic						
Hatenais	Truck Traffic (TI = 6.0)	TI = 7.0	TI = 8.0	TI = 9.0					
PCC	5	5½	6½	8					
Compacted Subgrade (95% minimum compaction)	12	12	12	12					

The concrete should have a 28-day compressive strength of at least 3,000 psi. The maximum joint spacing within all of the PCC pavements is recommended to be equal to or less than 30 times the pavement thickness.



This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, civil engineer, and/or structural engineer. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The client(s)' reliance upon this report is subject to the Engineering Services Agreement, incorporated into our proposal for this project.

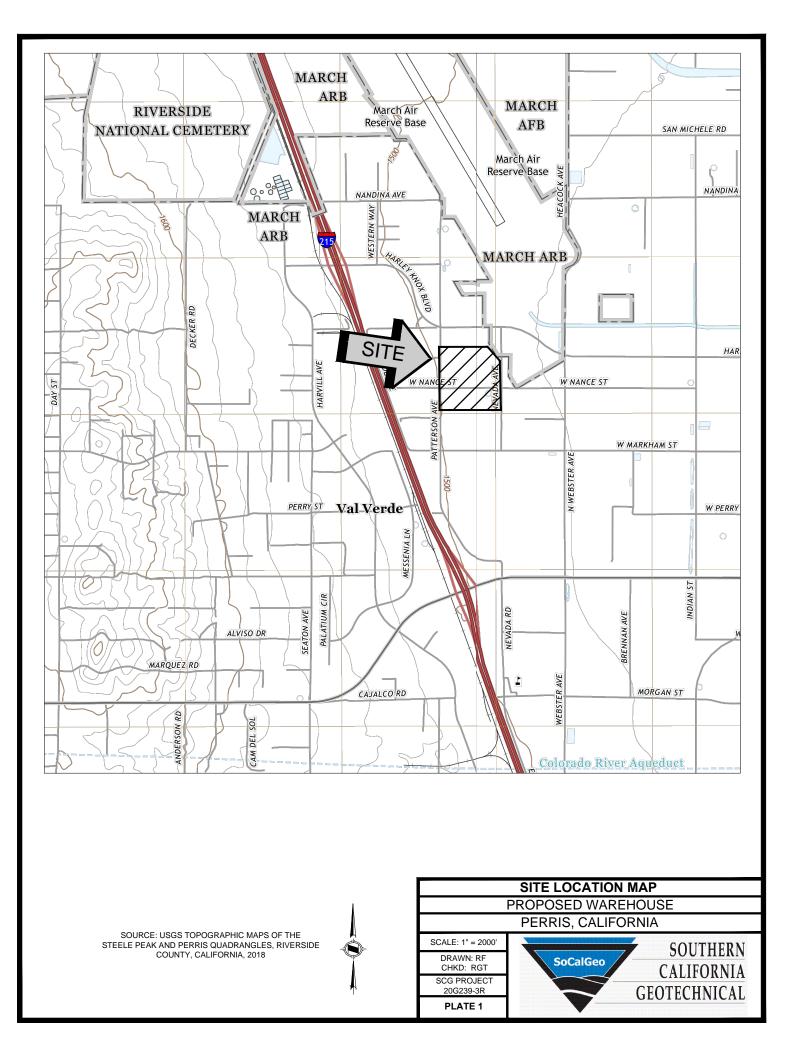
The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between boring locations and sample depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

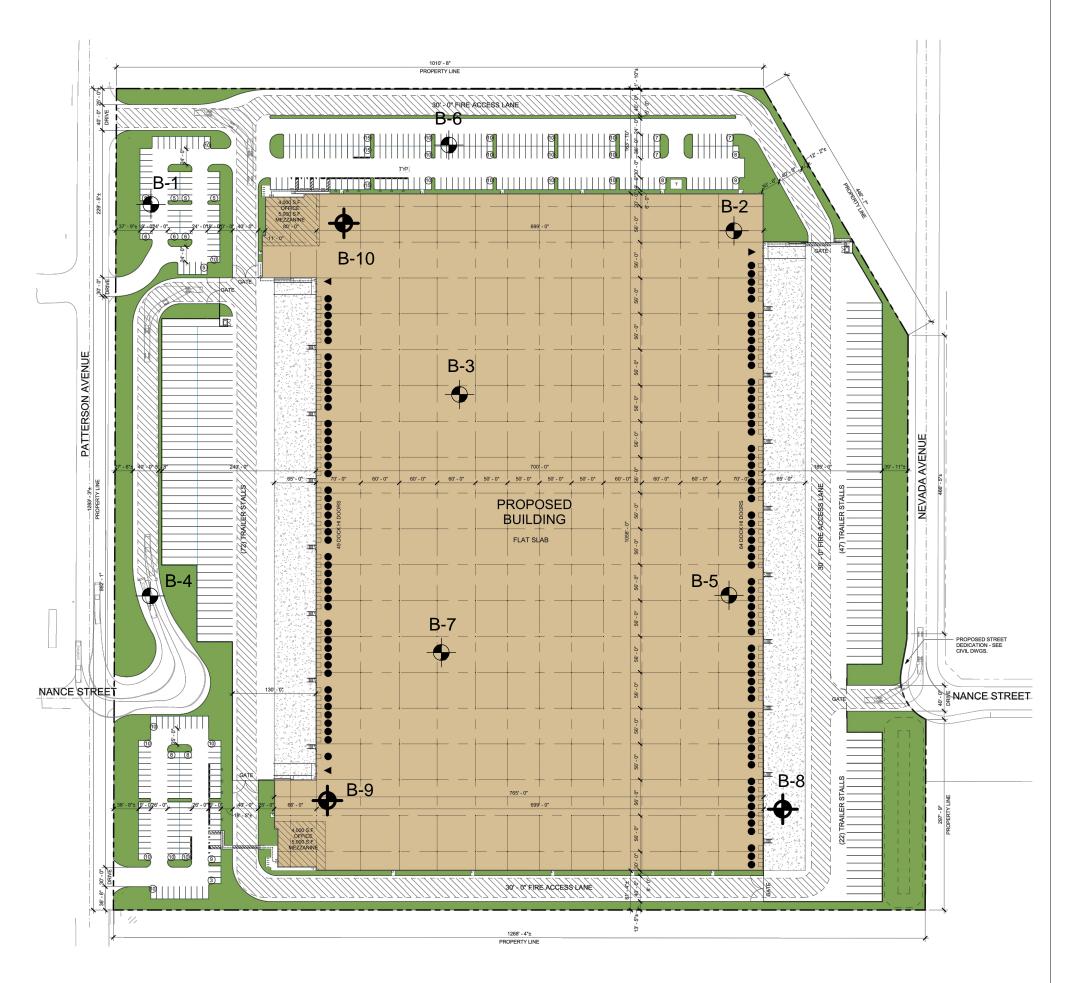
This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted.

The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.



A P P E N D I X A









APPROXIMATE BORING LOCATION

PREVIOUS BORING LOCATION (SCG PROJECT NO. 20G239-1)

GEOTECHNICAL LEGEND

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A P P E N D I X B

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB	M	SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR	\bigcirc	NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

<u>DEPTH</u> :	Distance in feet below the ground surface.
<u>SAMPLE</u> :	Sample Type as depicted above.
BLOW COUNT:	Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.
POCKET PEN.:	Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.
GRAPHIC LOG :	Graphic Soil Symbol as depicted on the following page.
DRY DENSITY:	Dry density of an undisturbed or relatively undisturbed sample in lbs/ft ³ .
MOISTURE CONTENT:	Moisture content of a soil sample, expressed as a percentage of the dry weight.
LIQUID LIMIT:	The moisture content above which a soil behaves as a liquid.
PLASTIC LIMIT:	The moisture content above which a soil behaves as a plastic.
PASSING #200 SIEVE:	The percentage of the sample finer than the #200 standard sieve.
UNCONFINED SHEAR:	The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

м	AJOR DIVISI	ONS		BOLS	TYPICAL			
			GRAPH	LETTER	DESCRIPTIONS			
	GRAVEL AND	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES			
	GRAVELLY SOILS	(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES			
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE	GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES			
	FRACTION RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES			
MORE THAN 50% OF MATERIAL IS	SAND AND	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES			
LARGER THAN NO. 200 SIEVE SIZE	SANDY SOILS	(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES			
	MORE THAN 50% OF COARSE	SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES			
	FRACTION PASSING ON NO. 4 SIEVE			SC	CLAYEY SANDS, SAND - CLAY MIXTURES			
				ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY			
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS			
00120				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY			
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE				МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS			
SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		СН	INORGANIC CLAYS OF HIGH PLASTICITY			
				ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS			
HI	GHLY ORGANIC S	SOILS		PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS			

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS



JOB NO.: PROJECT	T: Pr	oposed				C	ATER	EPTH:			
LOCATIO			Califorr	ia LOGGED BY: Ryan Bremer							pletion
FIELD F					LA		ATOF	RY R		_TS	
DEPTH (FEET) SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
SA DE	BL	D E	GF	SURFACE ELEVATION: MSL	ЦЦ Ц	Σö		L P	ΗZ(#	68	00
	24			FILL: Brown Silty fine Sand, trace Clay, trace to little medium to coarse Sand, trace Calcareous nodules, mottled, micaceous, medium dense-damp	126	6					
	44			@ 3', trace medium to coarse Sand	126	6					
5	50			<u>OLDER ALLUVIUM</u> : Brown Silty fine Sand, trace to little medium to coarse Sand, trace Calcareous nodules, micaceous, medium dense to dense-damp	114	6					
	39			@ 7', no Calcareous nodules	121	8					
10	58			@ 9', trace to little Clay	128	10					
15	33			Brown Silty fine to medium Sand, trace coarse Sand, micaceous, trace Calcareous nodules, medium dense-damp to moist		8					
20	30					10					
				Boring Terminated at 20'							
EST	RC		וטו	06						P	LATE B

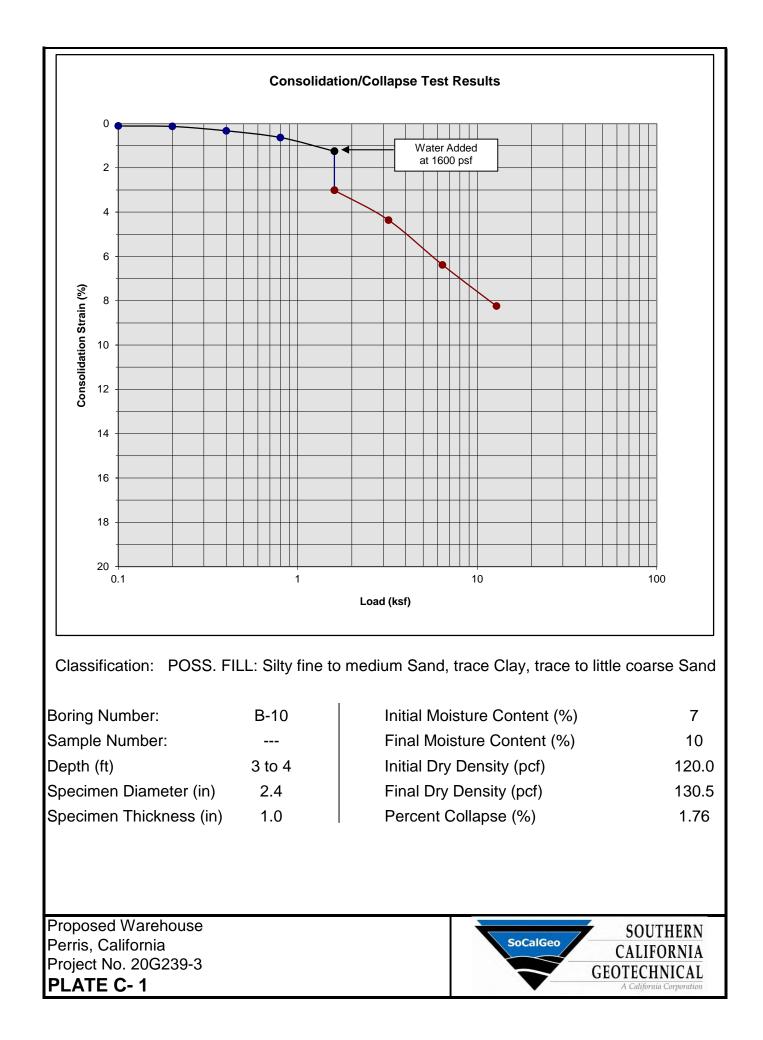


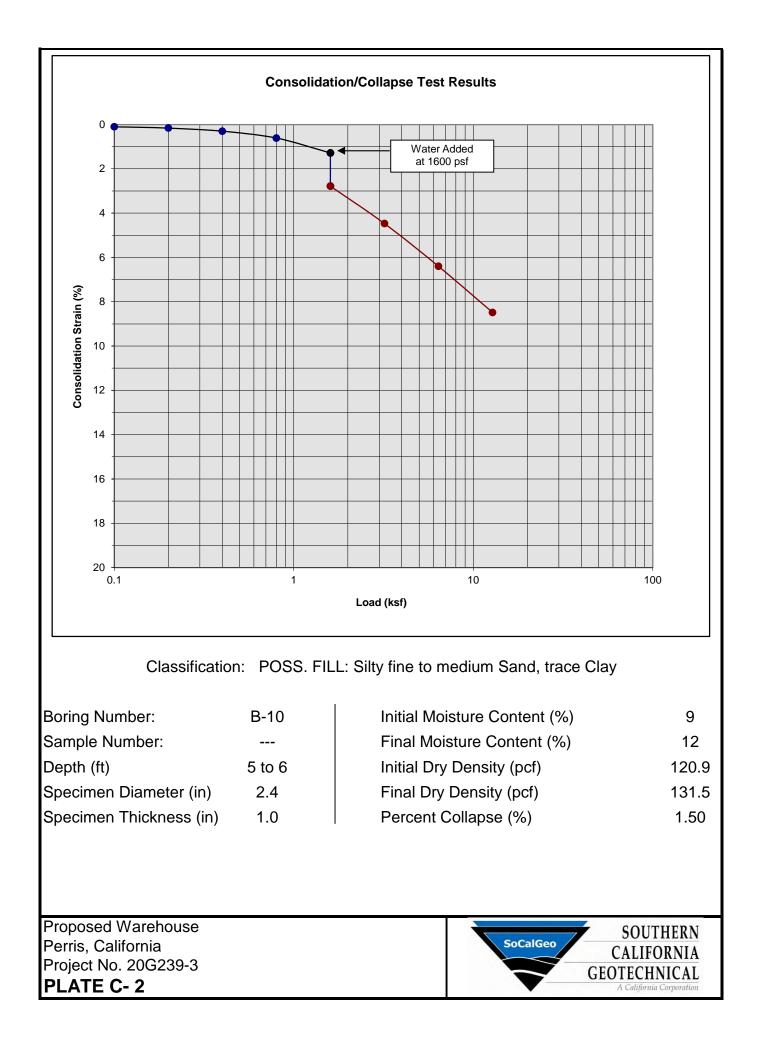
JOB NO. PROJEC LOCATIC	T: P	ropose	d Ware										
IELD F			-		LA								
DEPTH (FEET)	DUNT	POCKET PEN. (TSF)	1	DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIMIT	PLASTIC	PASSING #200 SIEVE (%)		COMMENTS		
				OLDER ALLUVIUM: Brown Silty fine to medium Sand, trace Clay,		20			<u> </u>		0		
	70			trace fine root fibers, trace Calcareous nodules, micaceous, medium dense-damp	120	5							
	29				122	4							
5	39			Brown Silty fine Sand, some Calcareous veining, micaceous, dense-damp	121	7							
	58				111	5							
10	58			 @ 9', trace to little medium Sand, trace Calcareous nodules, micaceous, trace Clay, very dense-damp 	129	6							
15	7 40			Brown Silty fine to medium Sand, trace Calcareous nodules, micaceous dense-damp to moist	-	9							
20	7 66			Brown Silty fine to coarse Sand, trace Calcareous nodules, micaceous, dense to very dense-damp	-	7							
25	7 39			-	-	5							
				Boring Terminated at 25'									
EST	BC			_OG						P	LATE B		

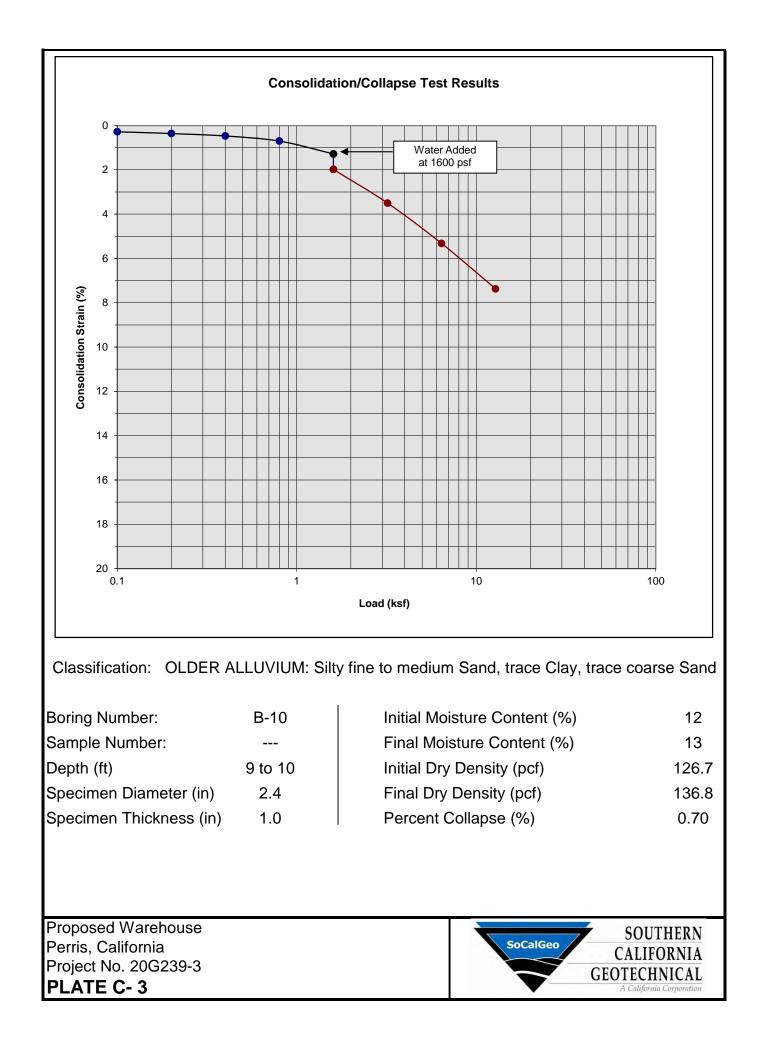


JOB NO.: PROJEC LOCATIC	T: Pro	oposed				C	ATER	EPTH:			npletion
FIELD F					LA						
DEPTH (FEET) SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)		0	PASSING #200 SIEVE (%)		COMMENTS
	34			<u>POSSIBLE FILL:</u> Dark Brown Silty fine to medium Sand, trace Clay, trace fine root fibers, micaceous, loose to medium dense-damp to moist	114	4					
	25			@ 3', trace to little coarse Sand, little Calcareous nodules	120	7					
5	11				120	10					
	50/4"			<u>OLDER ALLUVIUM</u> : Brown Silty fine to medium Sand, trace Clay, trace coarse Sand, some Calcareous veining, micaceous very dense-moist	-	12					Disturbed Sample
10	49			Brown Silty fine Sand, trace medium to coarse Sand, trace Calcareous nodules, micaceous, dense-moist	126	11					
15	23			Brown Silty fine Sand, trace medium to coarse Sand, trace Calcareous nodules, micaceous, medium dense to dense-damp	-	13					
20	36			@ 18.5', no Calcareous nodules	-	10					
20				Boring Terminated at 20'							
				~~							
TEST	RO	KIN	GL	UG						P	LATE B-3

A P P E N D I X C







A P P E N D I X

GRADING GUIDE SPECIFICATIONS

These grading guide specifications are intended to provide typical procedures for grading operations. They are intended to supplement the recommendations contained in the geotechnical investigation report for this project. Should the recommendations in the geotechnical investigation report conflict with the grading guide specifications, the more site specific recommendations in the geotechnical investigation report will govern.

<u>General</u>

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.
- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.
- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.
- The Earthwork Contractor is required to have suitable and sufficient equipment on the jobsite to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.
- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.
- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.
- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.
- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.
- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.
- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.
- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted
- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as "contaminated," and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.
- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.
- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.
- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:
 - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.
 - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

Page 3

concrete. Ample water and compactive effort should be applied to the fill materials as they are placed in order that all of the voids between each of the fragments are filled and compacted to the specified density.

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.
- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.
- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.
- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.
- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.
- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.
- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.
- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.
- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.
- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.
- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a $\frac{1}{2}$ horizontal to 1 vertical (0.5:1) inclination.
- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.
- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

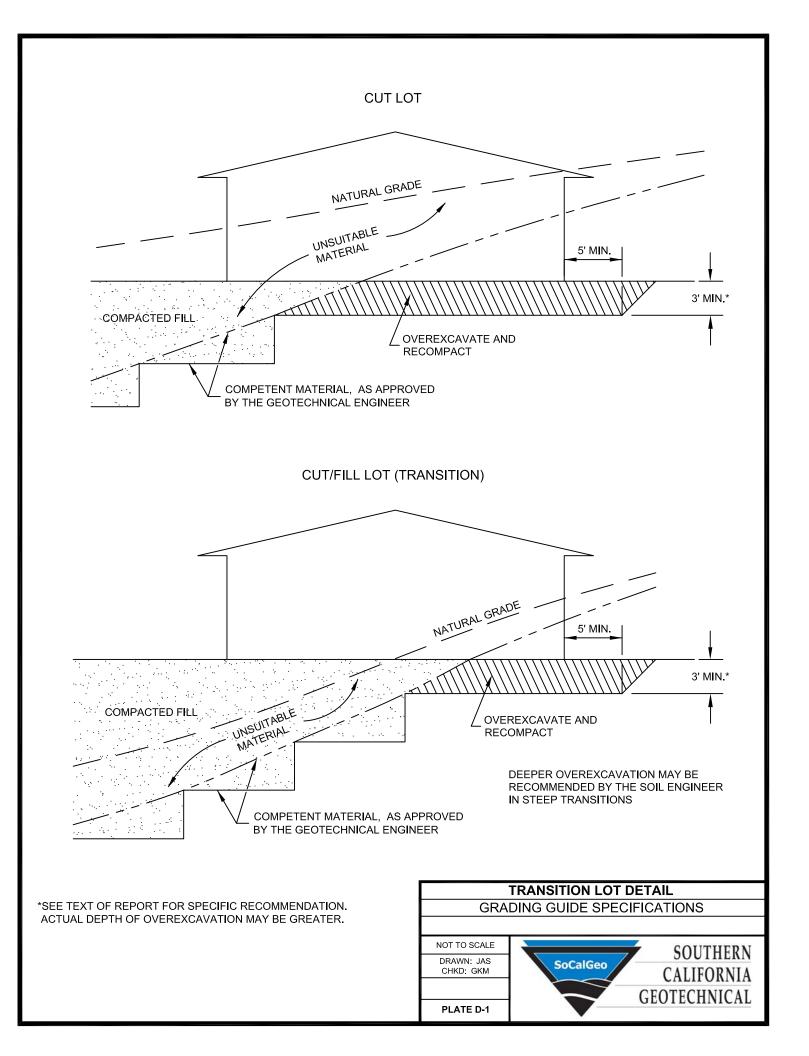
- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core
- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.
- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.
- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).
- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.
- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

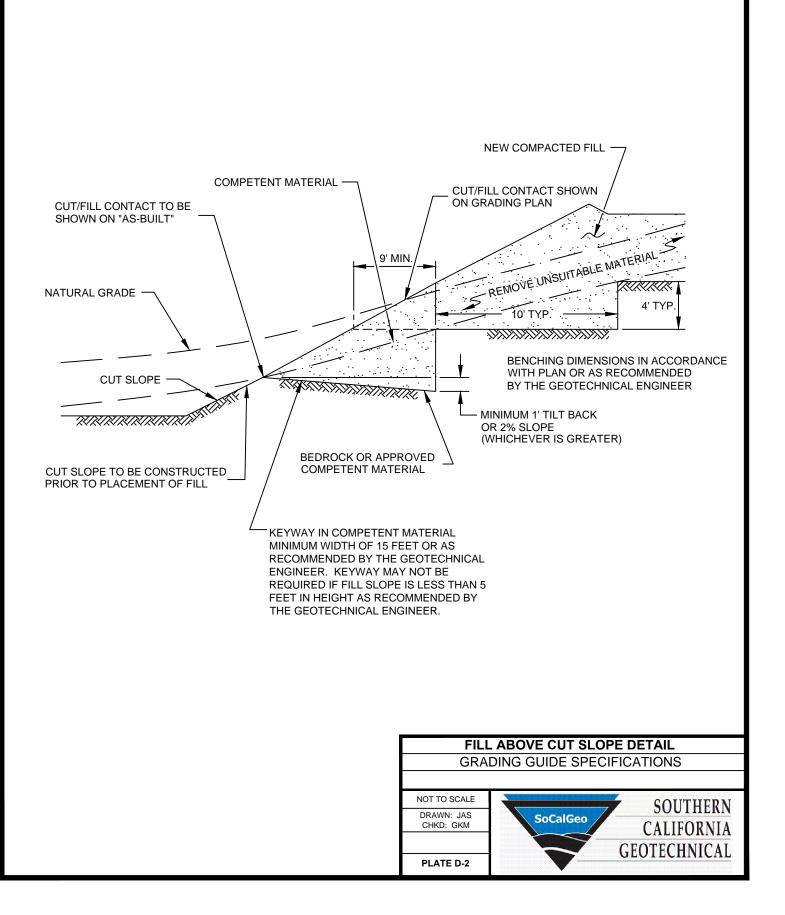
Cut Slopes

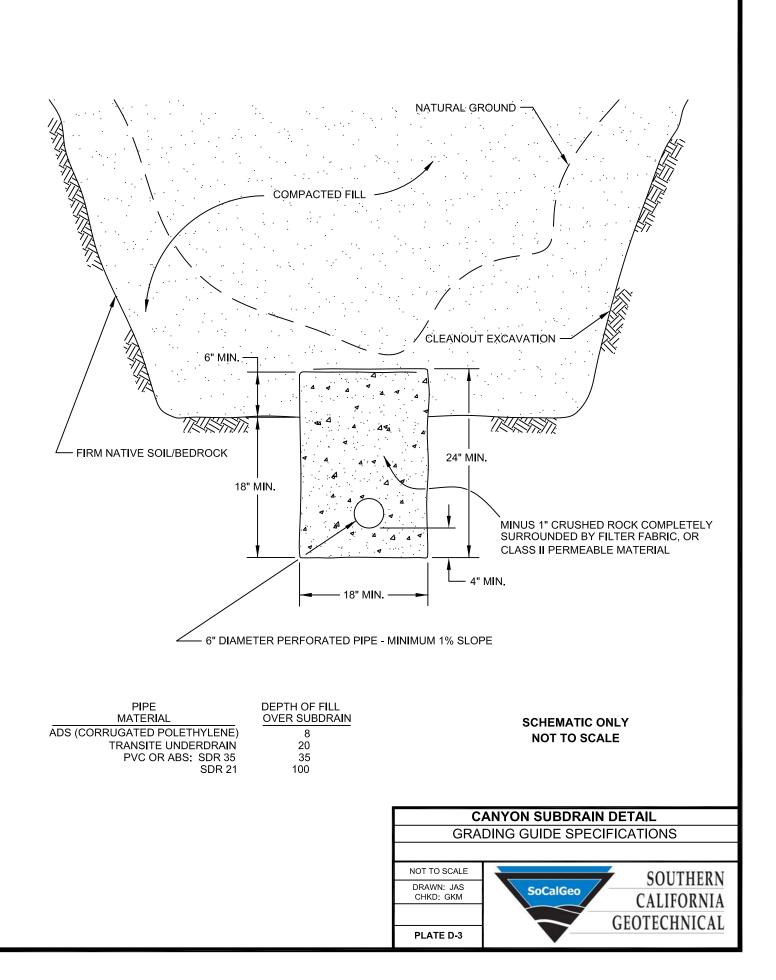
- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.
- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.
- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

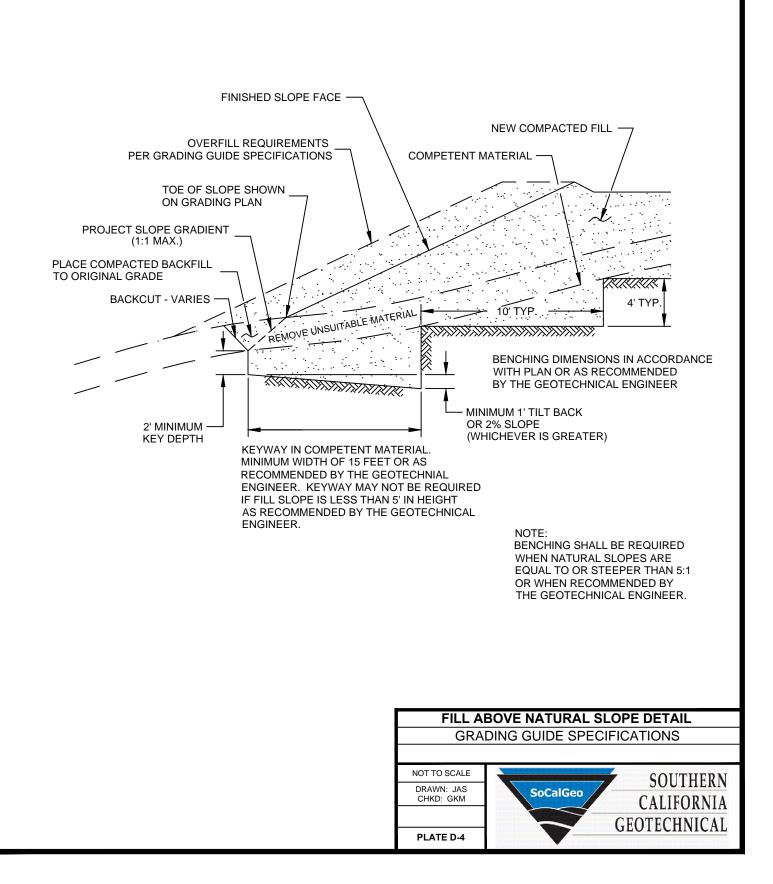
Subdrains

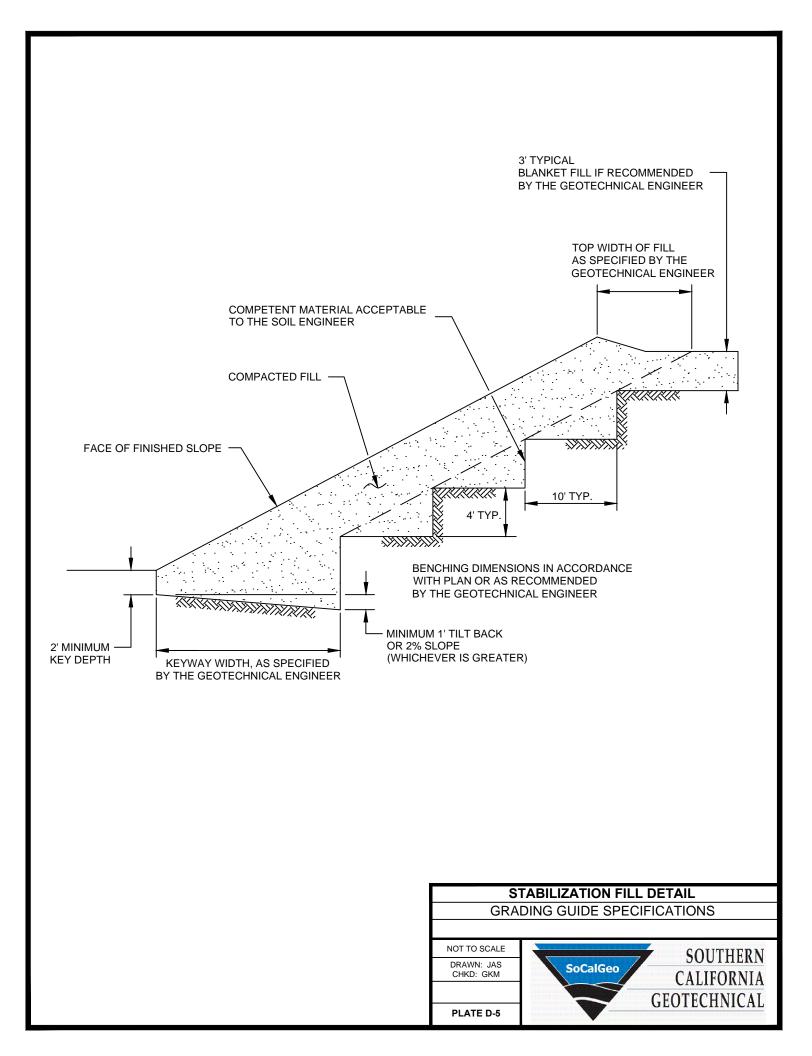
- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.
- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ³/₄-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

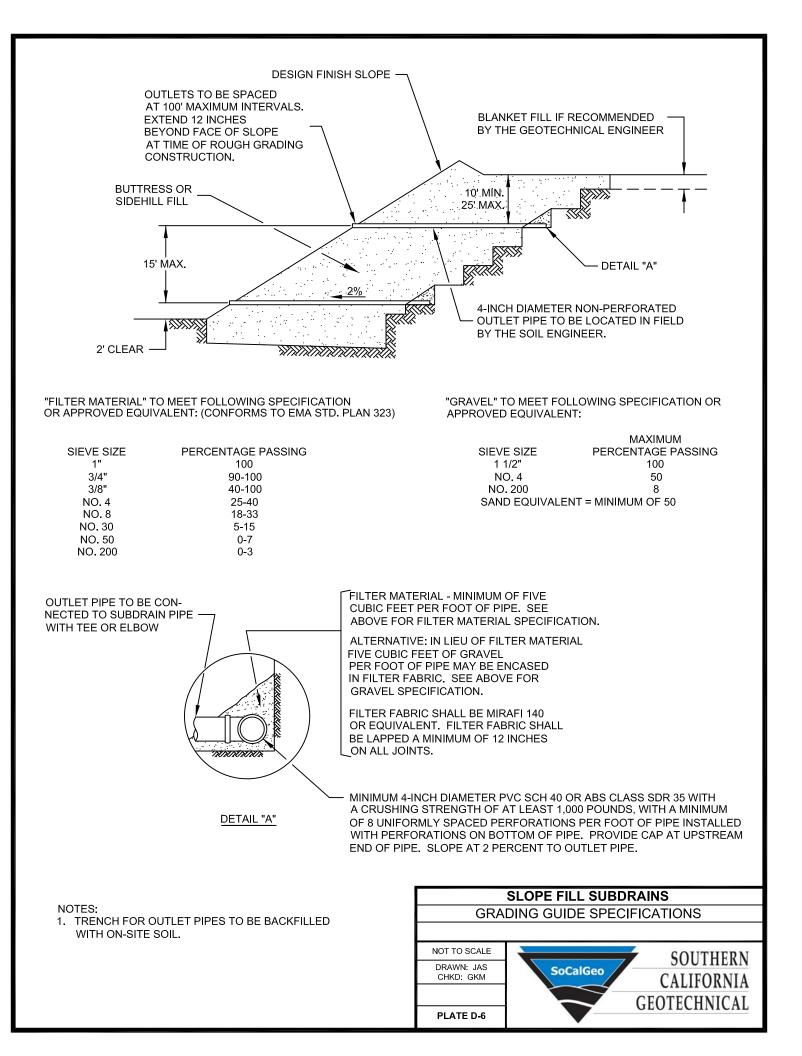


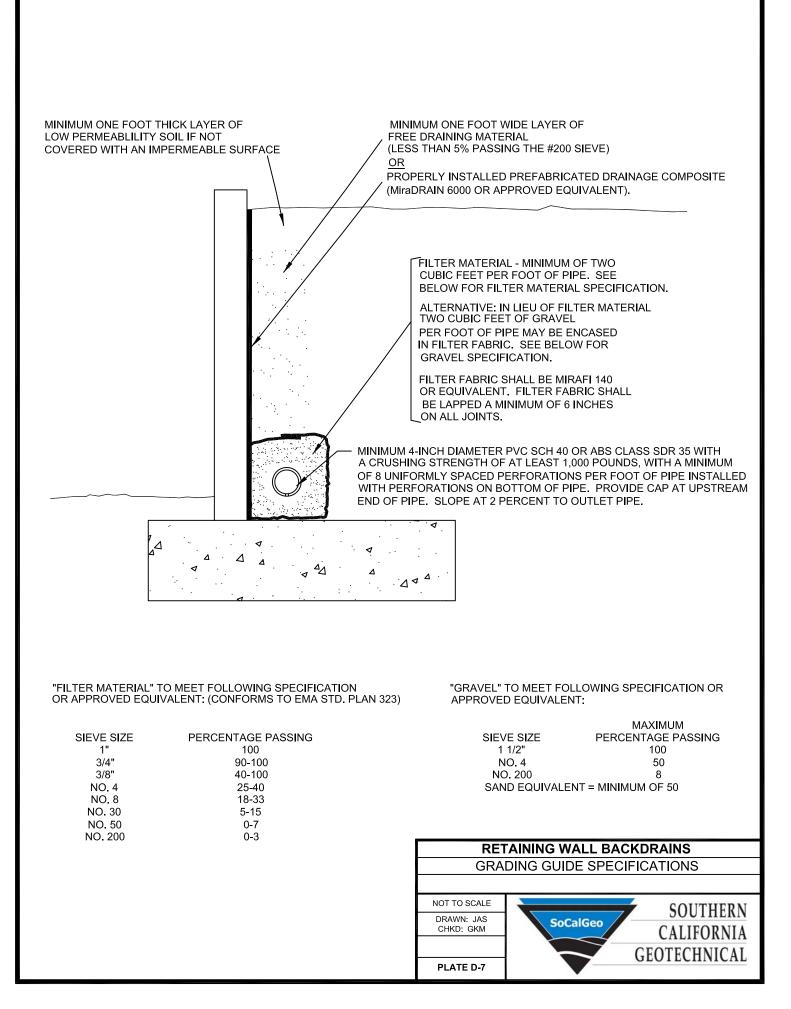


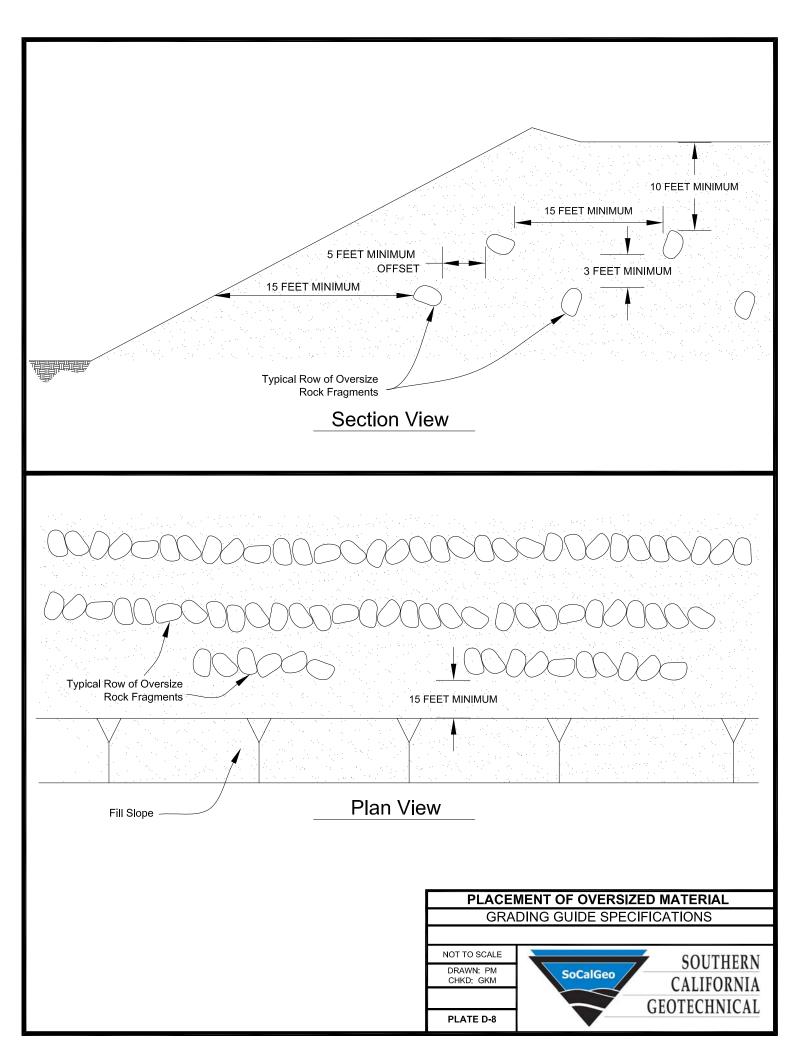












A P P E N D I X E

12/17/2020

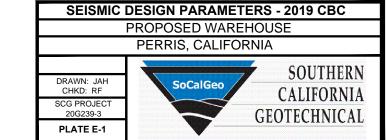
U.S. Seismic Design Maps

OSHPD



Latitude, Longitude: 33.856727, -117.250189

Wade Ave	Timmons Wood Pro	oducts Perris Lake Rv-Boat-Trailer Auto Aide Towing	N Webster Ave
Goo	gle	Map data	©2020
Date		12/17/2020, 2:39:54 PM	
-	Code Reference Document	ASCE7-16	
Risk Cat	585 B		
Site Clas	55	D - Stiff Soil	
Туре	Value	Description	
SS	1.5	MCE _R ground motion. (for 0.2 second period)	
S ₁	0.576	MCE _R ground motion. (for 1.0s period)	
S _{MS}	1.5	Site-modified spectral acceleration value	
S _{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value	
S _{DS}	1	Numeric seismic design value at 0.2 second SA	
S _{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA	
Туре	Value	Description	
SDC	null -See Section 11.4.8	Seismic design category	
Fa	1	Site amplification factor at 0.2 second	
Fv	null -See Section 11.4.8	Site amplification factor at 1.0 second	
PGA	0.5	MCE _G peak ground acceleration	
F _{PGA}	1.1	Site amplification factor at PGA	
PGAM	0.55	Site modified peak ground acceleration	
ΤL	8	Long-period transition period in seconds	
SsRT	1.546	Probabilistic risk-targeted ground motion. (0.2 second)	
SsUH	1.653	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration	
SsD	1.5	Factored deterministic acceleration value. (0.2 second)	
S1RT	0.576	Probabilistic risk-targeted ground motion. (1.0 second)	
S1UH	0.631	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.	
S1D	0.6	Factored deterministic acceleration value. (1.0 second)	
PGAd	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)	
C _{RS}	0.935	Mapped value of the risk coefficient at short periods	
C _{R1}	0.912	Mapped value of the risk coefficient at a period of 1 s	



A P P E N D I X F



			G239-1		PRILLING DATE: 12/4/20 Prehouse DRILLING METHOD: Hollow Stem Auger			ATER			•	
	ATIC	DN: F	Perris,	Califo		IAF	R		G TAł	KEN:	At Co	mpletion
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)		PLASTIC LIMIT	PASSING #200 SIEVE (%)		COMMENTS
-		27 75			YOUNGER ALLUVIUM: Brown Silty fine Sand, trace medium Sand, medium dense-damp - <u>OLDER ALLUVIUM:</u> Brown Silty fine to medium Sand, trace to little coarse Sand, dense to very dense-damp	-	5					
5 -		33			-	-	5					
10-		50/3"			@ 8½ feet, trace Clay, moist	-	8					-
- 15 -		32			Brown fine Sandy Silt, dense-moist - - -	-	13					
- 20-		50/6"			Dark Brown fine Sandy Silt, with interbedded layers of Silty Clay, very dense-damp	-	8					
- - - 25		32			Brown Silty fine Sand to fine Sandy Silt, dense-damp	-	9					
20					Boring Terminated at 25'							
	ST	BC	RIN	IG I	_OG						P	LATE B-1



JOB NO PROJEC LOCATIO	T: P	ropos	ed Wai			C	ATER AVE D	EPTH	l: 13	feet	mpletion
			_		LAF	BOR/					
DEPTH (FEET)	BLOW COUNT	POCKET PEN.		DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)			PLASTIC	Έ (%)		COMMENTS
				YOUNGER ALLUVIUM: Brown Silty fine Sand, trace medium		20					
	51			Sand, dense-dry OLDER ALLUVIUM: Brown Clayey fine Sand, little Silt, trace medium Sand, very dense-damp	115	2					
	50/4'	'			122	5					
5	82/8'			Red Brown Silty fine to coarse Sand, cemented, very	117	8					
	50/4'			dense-damp	103	8					
10	50/4'			-	106	6					
15	39			Red Brown Silty fine Sand, trace Clay, dense-damp	-	6					
20	22			Brown Silty fine Sand to fine Sandy Silt, trace Clay, medium dense-moist	-	12					
				Boring Terminated at 20'							
EST	BC	RI		OG						Ρ	LATE B



JOB NO. PROJEC	T: P	ropose	ed War			C	ATER	EPTH	: 13	feet	mulation
LOCATIC				hia LOGGED BY: Jamie Hayward	LAE						mpletion
DEPTH (FEET)	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIMIT		PASSING #200 SIEVE (%)		COMMENTS
	24			<u>YOUNGER ALLUVIUM:</u> Brown Silty fine to medium Sand, medium dense-damp <u>OLDER ALLUVIUM:</u> Brown Clayey fine Sand to fine Sandy Clay, medium dense to very dense, stiff to hard-damp to moist	103	4					
	22	4.5			120	12					
5	65	4.5			125	8					
	82/11'	4.5		Brown Silly fing Sand little Clay your dance down	131	8					
10	97/9"			Brown Silty fine Sand, little Clay, very dense-damp	121	9					
15	32			Brown Clayey fine Sand, little Silt, dense-moist	-	12					
20	34			Brown Silty fine Sand, trace medium to coarse Sand, dense-moist	-	9					
				Boring Terminated at 20'							
FEST	RC			06						D	LATE B



JOB NO.				DRILLING DATE: 12/4/20							
PROJEC LOCATIO							AVE D EADIN				mpletion
FIELD F	RESI	JLTS			LA	BOR/		RYR	ESUI	LTS	
DEPTH (FEET) SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
				YOUNGER ALLUVIUM: Brown fine Sandy Clay, little Silt,							
	50			hard-damp	112	5					EI = 53 @ 0-5 feet
	29			Brown fine Sandy Silt, some Clay, medium dense-damp to moist	123	8					
5	25				118	10					
	30	4.5		<u>OLDER ALLUVIUM:</u> Brown fine Sandy Clay, little Silt, very stiff-damp to moist	130	11					
10	26	4.5			118	15					
15	30			Gray Brown Clayey fine to coarse Sand, medium dense to dense-damp	-	11					
	23			Brown Silty fine Sand, trace Clay, trace medium to coarse Sand, medium dense-damp to moist	-	7					
-20-				Boring Terminated at 20'							
TEST	BC) RIN	IG L	.OG	1			<u> </u>	<u> </u>	P	LATE B-4



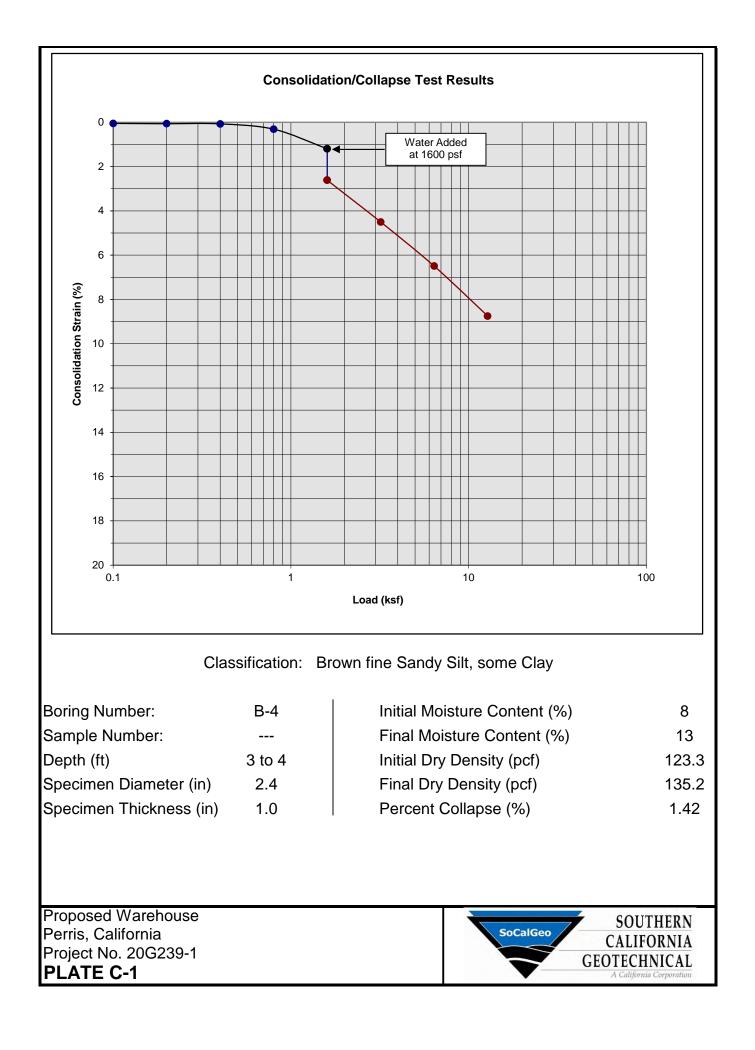
TES	<u></u> Т7	BO) RIN	IG I	_OG						P	LATE B-
-25				<u>. 11 1</u>	Boring Terminated at 26'							
	\times	50/5"				-	11					
15 -	\mathbf{X}	31			@ 18½ feet, trace Clay, dense-damp	-	5					
-	X	50/5"			@ 13½ feet, trace Clay, cemented	-	9					
	imes	68			Brown Silty fine Sand, little Clay, very dense-moist	-	9					
5 -	\searrow	50/6"			<u>OLDER ALLUVIUM:</u> Brown Clayey fine Sand, trace medium Sand, slightly cemented, very dense-damp	-	6					
- - -		26 34			YOUNGER ALLUVIUM: Brown Silty fine Sand, trace Clay, trace medium Sand, medium dense-damp . @ 3½ feet, little Clay		4					
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: MSL YOUNGER ALLIVIUM: Brown Silty fine Sand trace Clay	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
			Perris, JLTS	Califo	nia LOGGED BY: Jamie Hayward	LAE						mpletion
			G239-1 ropose		DRILLING DATE: 12/4/20 ehouse DRILLING METHOD: Hollow Stem Auger			ATER AVE D			-	

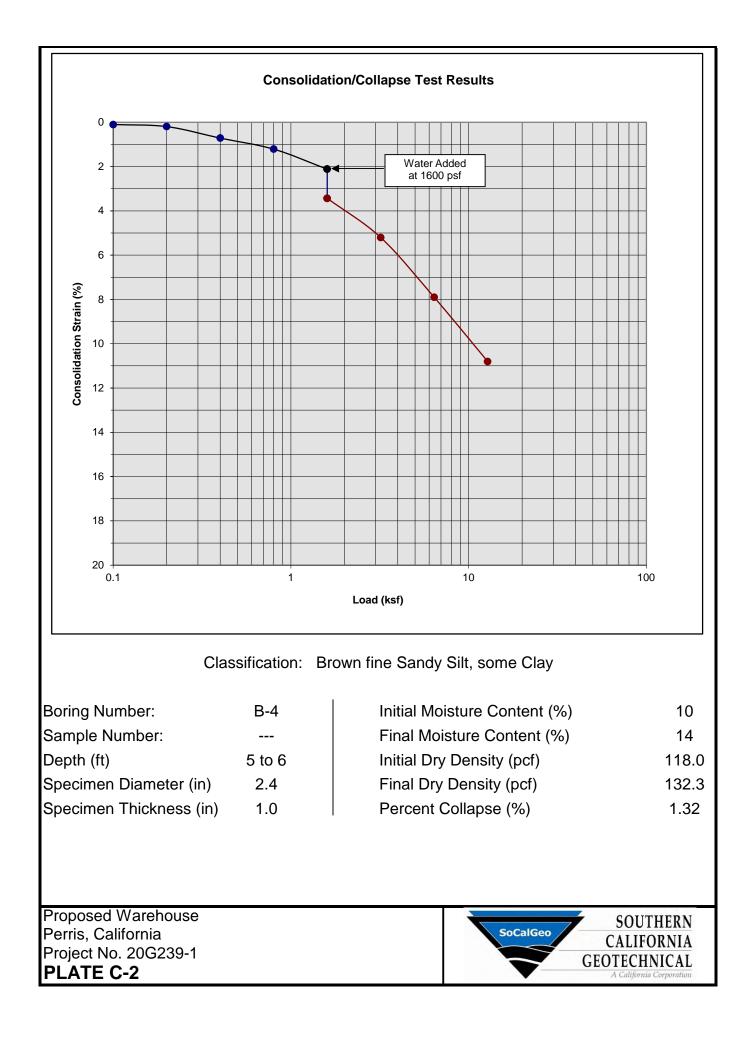


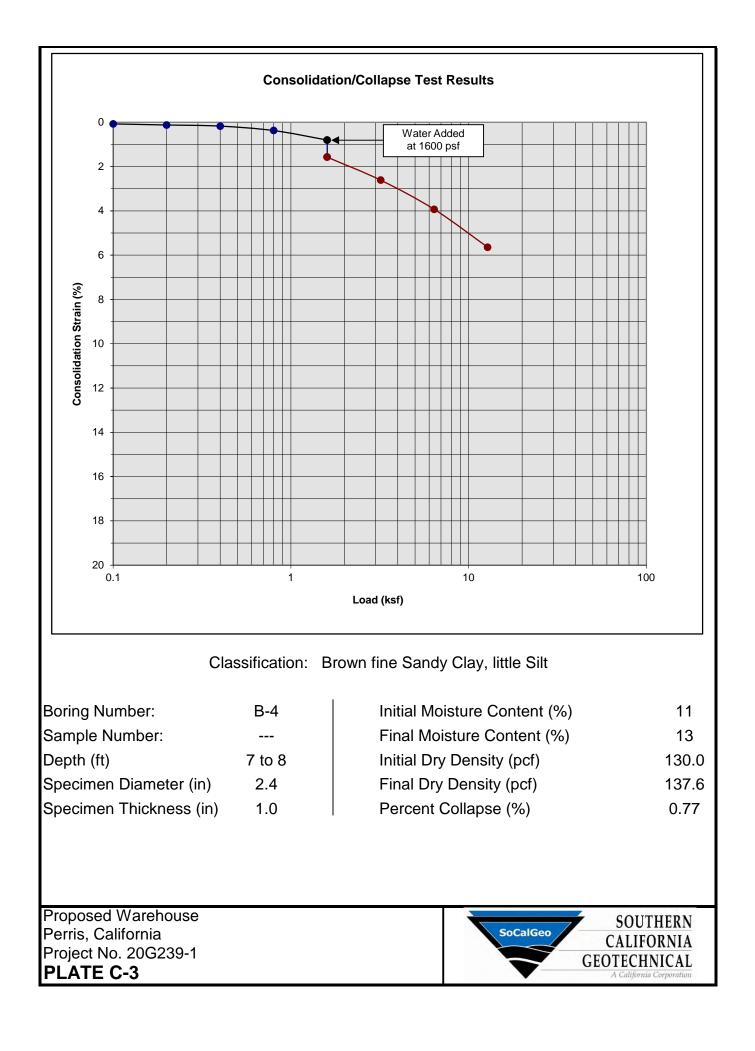
JOB NO.: 20G239-1DRILLING DATE: 12/4/20WATER DEPTH: DryPROJECT: Proposed WarehouseDRILLING METHOD: Hollow Stem AugerCAVE DEPTH: 7 feetLOCATION: Perris, CaliforniaLOGGED BY: Jamie HaywardREADING TAKEN: At Completion						mpletion			
FIELD RESUL			LAB				ESUI		
DEPTH (FEET) SAMPLE BLOW COUNT	POCKET PEN. (TSF) GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		YOUNGER ALLUVIUM: Brown Silty fine Sand, trace medium Sand, medium dense-damp							-
				5					
		Brown Clayey fine Sand, little Silt, medium dense-damp		8					
5 50/4"		OLDER ALLUVIUM: Brown Silty fine Sand, trace Clay, very dense-damp to moist	-	11					-
10 50/6"			-	8					-
		Boring Terminated at 10'							
. 12/24/20									
GEO.GDT									
n socal									
TBL 20G239-1.GPJ SOCALGEO.GDT 12/24/20									

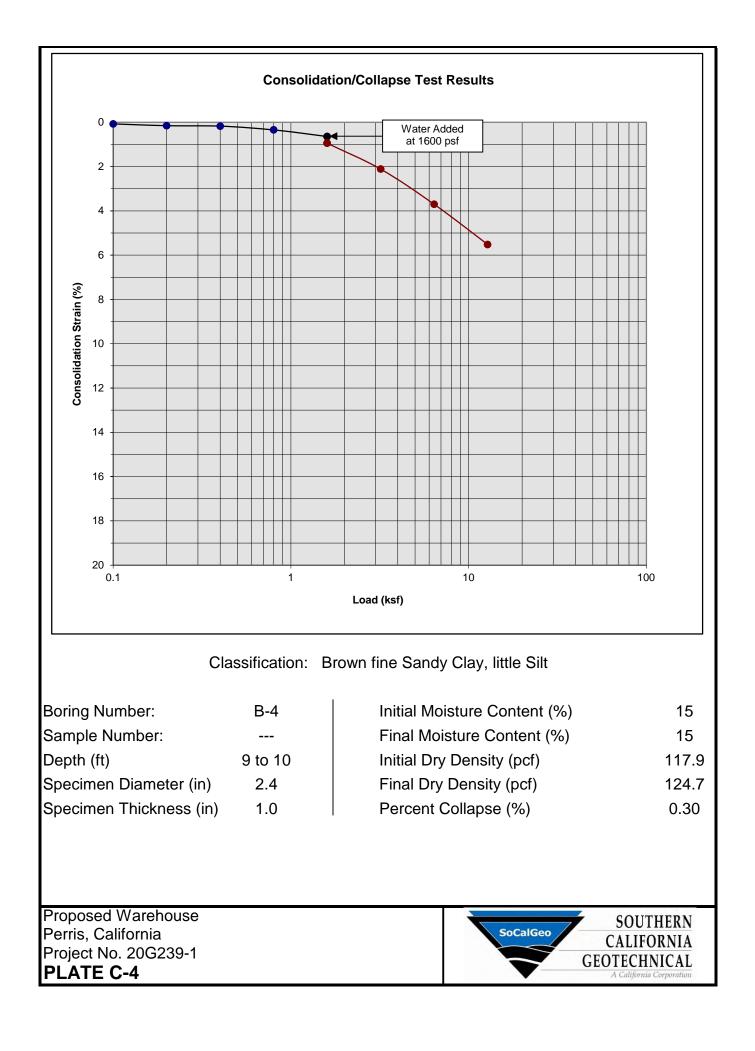


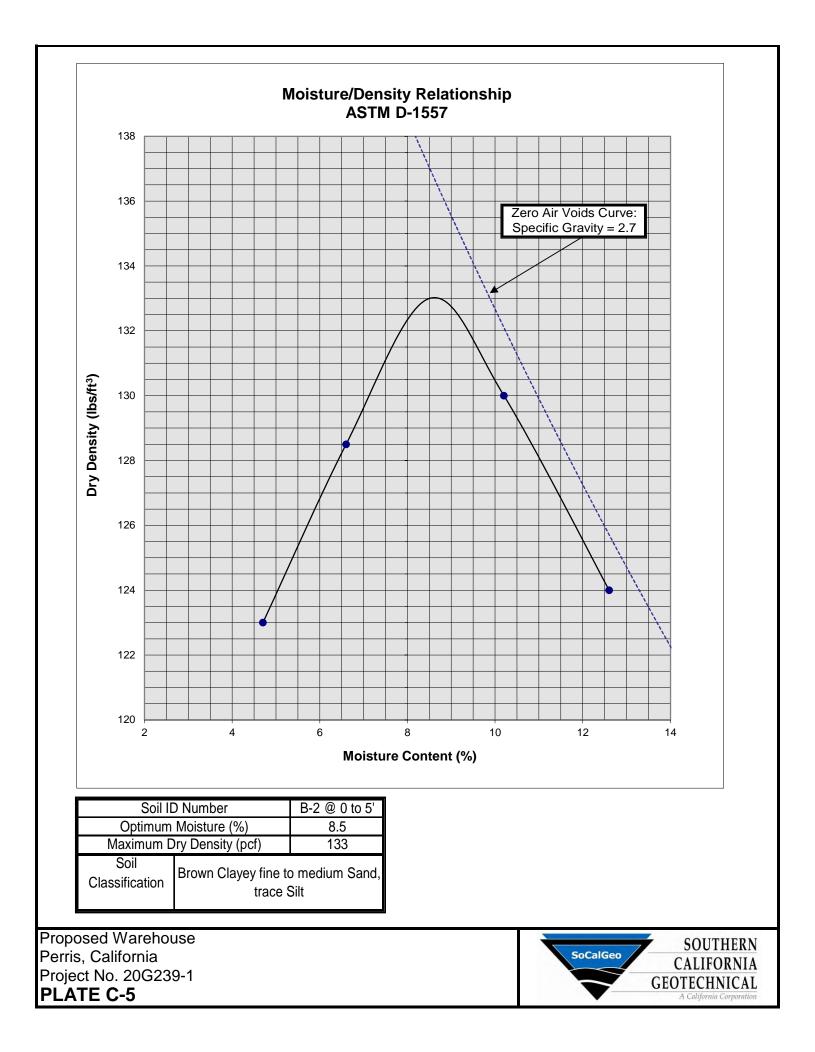
PRC	JEC	T: P		d War	DRILLING DATE: 12/4/20 ehouse DRILLING METHOD: Hollow Stem Auger			DEP1 EPTH			
			^{Perris,} JLTS		nia LOGGED BY: Jamie Hayward	1.00	RE 30R/				mpletion
рертн (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. [(TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: MSL	DRY DENSITY (PCF)			PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		27			YOUNGER ALLUVIUM: Brown Silty fine Sand, trace fine root fibers, medium dense-damp OLDER ALLUVIUM: Brown Clayey fine Sand, trace fine root fibers, medium dense to very dense-damp	-	4 6				
5 -		32 36			-	-	6				-
		71			·	-	6				
- 10-				<u> </u>	Boring Terminated at 10'						
EO.GDT 12/24/20											
TBL 20G239-1.GPJ SOCALGEO.GDT 12/24/20											
					06						











Appendix 4: Historical Site Conditions

Phase I Environmental Site Assessment or Other Information on Past Site Use

PHASE I ENVIRONMENTAL SITE ASSESSMENT UPDATE

39 Parcels at 4946-4800 Patterson Avenue Perris, California 92571

093-DUKE-054.1

Prepared For:



Duke Realty 200 Spectrum Drive, Suite 1600 Irvine, California 92618

Prepared By:



3478 Buskirk Avenue, Suite 100 Pleasant Hill, CA 94523

December 20, 2021

Prepared and Reviewed By:

Suzanne Nase Staff Geologist

Robert Robitaille Senior Geologist

M. In

Nathan Colton Principal Scientist

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EXECUTIVE SUMMARY

Apex Companies, LLC (Apex) performed a Phase I Environmental Site Assessment (ESA) update of the property located at 4946-4800 Patterson Avenue, Perris, California (Subject Property) on behalf of Duke Realty (Duke). Apex performed a Phase I ESA for the Subject Property, dated August 31, 2021. On December 9, 2021, Duke requested an updated Phase I ESA to be performed on the Subject Property to include adjacent parcels located to the southwest.

The Subject Property comprises 39 parcels at the northeast and southeast corners of Patterson Avenue and Nance Street. The parcels are listed with the Riverside County Assessor's office as assessor parcel numbers (APN) 314-015-015 through 314-015-040, 314-015-042, 314-015-044, 314-015-046, 314-015-048, 314-016-005 through 314-016-012, and 314-016-33 (formerly referenced as parcels 314-016-003 and -004).

The Subject Property parcels are all currently unimproved and vacant, apart from one, three-parcel lot in the northwest corner. The parcel in the northwest corner of the Subject Property is currently utilized for semi-truck trailer storage. The objective of this ESA was to identify recognized environmental conditions (RECs) in connection with the Subject Property.

Apex performed this ESA in accordance with the proposal dated July 7, 2021 and the American Society and Testing Materials (ASTM) E1527-13 and the U.S. Environmental Protection Agency's Standards and Practices for All Appropriate Inquiries, 40 Code of Federal Regulations (CFR) 312. The findings, opinions and conclusions of this ESA are for the confidential and exclusive use of Duke, its affiliates, employees, agents, successors, and assigns. Reliance on this report for any use by parties other than specifically stated is prohibited without the express written consent of Apex and Duke, and such use is at the sole risk of the User. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report.

Apex reviewed the available environmental and historical records for the Subject Property according to ASTM E1527-13 Standards. Based on physical setting source review, environmental records review, and historical use records, no RECs were identified.

Apex did not identify any RECs during the site reconnaissance associated with the Subject Property.

The Subject Property has historically been used for agricultural purposes dating from prior to 1938 until between 2009-2012. Organochlorine pesticides (OCPs) were used extensively from the 1940s through the 1960s in the agricultural industry. Arsenic may also be found in historically agricultural soils. OCPs and arsenic in soils are a Business Environmental Risk (BER) to the property.

Based these findings, Apex recommends collecting 4 surface (0-0.5 feet below ground surface) at a minimum in each quarter of the Subject Property and have them analyzed for OCPs and metals for worker soil handling safety purposes.

A possible water-well was identified on the historic topographic maps from 1967 through the most recent 2012 map, located on the southeast corner, south of Nance Street. A record search was performed to determine the status of the well. No records were found. A water-well is considered a



potential preferential pathway to subsurface groundwater. Apex considers the water-well to be a BER, and recommends performing an investigation to determine if the well is still present on the Subject Property. If the well is found it should be properly abandoned.



TERMINOLOGY

This section contains definitions for technical terms used in the report. Italicized terms are defined in the American Society and Testing Materials (ASTM) Standard Practice E 1527-13 and provided below for easy reference.

Recognized Environmental Condition (REC): "The 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."

Historical Recognized Environmental Condition (HREC): "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). Before calling the past release a HREC, the environmental professional (EP) must determine whether the past release is a REC at the time the Phase I Environmental Site Assessment (ESA) is conducted (for example, if there has been a change in regulatory criteria). If the EP considers the past release to be a REC at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a REC."

Controlled Recognized Environmental Condition (CREC): "A REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (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). A condition considered by the EP to be a CREC shall be listed in the findings section of the Phase I ESA report, and as a REC in the conclusions section of the Phase I ESA report."

De minimis condition: "A condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not RECs nor controlled recognized environmental conditions."

Business Environmental Risk (BER): "A risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations."



Data Gap: "A lack of or inability to obtain information required by this practice despite good faith efforts by the EP to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.)".



LIST OF ACRONYMS

AAI	All Appropriate Inquiries
Amsl	above mean sea level
APEX	Apex Companies, LLC
APN	Assessor's Parcel Number
AST	Aboveground Storage Tank
AUL	Activity and Use Limitations
ASTM	American Society and Testing Materials
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERS	California Environmental Reporting System
CFR	Code Federal of Regulations
CHMIRS	California Hazardous Material Incident Reporting System
CIWQS	California Integrated Water Quality System
CPS	Cleanup Program sites
CREC	Controlled Recognized Environmental Condition
DEED	Design in Engineering Education Division
DTSC	Department of Toxic Substances Control
DUKE	Duke Realty
DWR	Department of Water Resources
ECHO	Enforcement & Compliance History Information
EDR	Environmental Data Resources, Inc.
EMI	Emission Inventory Data
EP	Environmental Professional
EPA	Environmental Protection Agency
ERNS	Emergency Response Notification System
ESA	Phase I Environmental Site Assessment
FEMA	Emergency Management Agency
FINDS	Facility Index System
FIRM	Flood Insurance Rate Map



FWS	Fish and Wildlife Services
HAZNET	Hazardous Waste Information System
HREC	Historical Recognized Environmental Condition
HWT	Hazardous Waste Transporter
LQG	Large Quantity Generator
LUST	Leaking Underground Storage Tank
NFRAP	No Further Remedial Action Planned
NRCS	Natural Resources Conservation Service
OCP	Organochlorine pesticides
PCB	Polychlorinated Biphenyls
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RWQCB	Regional Water Quality Control Board
SEMS	Superfund Enterprise Management Services
SFRWQCB	San Francisco Bay Area Regional Water Quality Control Board
SLIC	Spills, Leaks, Investigation, and Cleanup
SQG	Small Quantity Generator
SWEEPS	Statewide Environmental Evaluation and Planning System
TSDF	Treatment, Storage, and Disposal Facility
USDA	United States Department of Agriculture
USGS	United States Geological Society
UST	Underground Storage Tank
VSQG	Very Small Quantity Generator



1.0 INTRODUCTION

1.1 Purpose

Apex Companies, LLC (Apex) has prepared this Phase I Environmental Site Assessment (ESA) update at the request of the Duke Realty (Duke). Apex performed a Phase I ESA of the property located at 4946-4800 Patterson Avenue, Perris, California (Subject Property), dated August 31, 2021 (**Figure 1**). On December 9, 2021, Duke requested an updated Phase I ESA to be performed on the Subject Property to include additional parcels located to the southwest. A map of the Subject Property is provided as **Figure 2**.

The purpose of the ESA is to identify *recognized environmental conditions (RECs)* that may pose potential environmental risks associated with the Subject Property, which encompasses 39 parcels at the northeast and southeast corners of Patterson Avenue and Nance Street in Perris, California.

1.2 Scope of Services

This ESA was conducted in good commercial and customary practice by utilizing the American Society and Testing Materials (ASTM) E1527-13 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" and the U.S. Environmental Protection Agency's (EPA) Standards and Practices for All Appropriate Inquiries (AAI), 40 Code of Federal Regulations (CFR), Part 312. The scope of services performed were in accordance with the proposal dated July 7, 2021 and included evaluation of the following:

- Environmental databases to determine the likelihood of current and historical releases of hazardous substances and petroleum through storage, treatment, and/or disposal on or near the Subject Property where migration could occur;
- Subject Property's history through prior reports on the GeoTracker database, interviews, historical aerial photographs, topographic maps, fire insurance maps, city directories, building permits, and the preliminary title report provided by the User;
- The Subject Property's current conditions by conducting an on-site survey of the Subject Property and visual evaluation of surrounding properties, and conducting interviews with representatives of regulatory agency(s), current property owner/operator, and/or consultants for owner/operator, and
- Physical characteristics of the Subject Property including hydrologic and soil data through available environmental files from local agencies including the California Regional Water Quality Control Board (RWQCB), California Department of Toxic Substances Control (DTSC), City of San Jose, Santa Clara County, Santa Clara Valley Water District, and other appropriate agencies.

Any RECs, *historical RECs* (HREC) or *controlled RECs* (CREC), as defined by ASTM E1527-13, that were identified during the assessment are discussed in the findings and conclusions sections of this report.



1.3 Significant Assumptions

Apex has performed the historical and environmental record searches in accordance with current ASTM and industry practice. The data, findings, and conclusions presented in this ESA are based upon a detailed search, review, and analysis of the documents and interviews as well as observations made during the site reconnaissance. Conclusions reached regarding the conditions of the Subject Property do not represent a warranty that all areas within the Subject Property are of a similar quality as may be inferred from observable conditions and available history of the Subject Property. As stated in the ASTM Standard, no ESA can wholly eliminate uncertainty regarding the potential for environmental liability in connection with the Subject Property. Apex's evaluation and analysis are intended to reduce, not eliminate, the potential for conditions that result in liability for the User of this ESA.

1.4 Limitations and Exceptions

This report was prepared as a result of a contractual agreement that defined the approach and scope of services to be employed during the course of the investigation. The opinions and conclusions expressed in this study have been based strictly on the results of these contracted services. The scope of this ESA is intended to aid in the evaluation of RECs. The services provided by Apex should not be construed as a warranty or guarantee that no RECs exist at the Subject Property or that all RECs have been uncovered. No conclusions are stated or implied concerning the suitability of the Subject Property for its eventual use. This document is not intended for purposes other than those expressly set forth herein or for use by parties other than for whom it has been prepared.

As outlined in the ASTM Standard for ESAs and Apex's scope of work, this project was non-intrusive in nature and did not include any sampling or testing of soils, groundwater, surface water, or other materials. Additionally, unless specifically described in this report, Apex's scope of work explicitly excluded issues that are outside the scope of ASTM E1527-13 which would constitute a business environmental risk as defined by ASTM. The ASTM Standard Practice E1527-13 recognizes, but not limited to, the following inherent limitations for this ESA:

- Uncertainty is Not Eliminated No ESA can wholly eliminate uncertainty regarding the
 potential for RECs in connection with a property. Performance of this practice is intended to
 reduce, but not eliminate, uncertainty regarding the potential for RECs, and this practice
 recognizes reasonable limits of time and cost.
- Not Exhaustive All Appropriate Inquiry 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.
- Level of Inquiry Is Variable Not every property will warrant the same level of assessment. Consistent with good commercial or customary practice, the appropriate level of



environmental site assessment will be guided by the type of property, the expertise and risk tolerance of the user, and the information developed in the course of the inquiry.

In general, the EPA does not regulate indoor air quality except to the extent that indoor air impacts are caused by releases of hazardous substances into subsurface soil or groundwater (vapor intrusion). ASTM E1527-13 defines "migrate" and "migration" as referring to the movement of hazardous substances or petroleum products in any form, including solid and liquid at the surface or subsurface, and vapor in the subsurface. Vapor migration in the subsurface is described in Guide E2600 – Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions; however, nothing in ASTM E1527-13 requires application of the Guide E2600 to achieve compliance with all appropriate inquiries.

An ESA completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction, is presumed to be valid. An ESA meeting or exceeding this practice and for which the information was collected or updated within one year prior to the date of the intended transaction, may be used provided that the following components of the ESA were conducted or updated within 180 days of the date of purchase or the date of the intended transaction:

- interviews with owners, operators, and occupants;
- searches for recorded environmental cleanup liens;
- reviews of federal, tribal, state, and local government records;
- visual inspections of the property and of adjoining properties, and
- the declaration by the environmental professional (EP) responsible for the assessment or update.

1.5 Special Terms and Conditions

This project was performed in accordance with the scope of work, terms and conditions and limitations stated in the proposal dated July 7, 2021, and as stated in this report. There are no other special terms or conditions concerning this project.

1.6 User Reliance

This report documents the ESA of the Subject Property performed by Apex in accordance with the proposal and in accordance with ASTM E1527-13 and the U.S. EPA Standards and Practices for All Appropriate Inquiries, 40 CFR 312. The findings, opinions and conclusions of this Phase I ESA are for the confidential and exclusive use of Duke, its affiliates, employees, agents, successors, and assigns. Reliance on this report for any use by parties other than specifically stated is prohibited without the express written consent of Apex and Duke, and such use is at the sole risk of the user.



1.7 Data Gaps

Available historical information enabled Apex to identify the first developed use of the property and at approximately five-year intervals to the present, such that significant data gaps were not encountered.



2.0 SITE DESCRIPTION

2.1 Subject Property Location and Ownership

The Subject Property is approximately 39 acres located in Perris, California in Riverside County. The Subject Property comprises 39 parcels at the northeast and southeast corners of Patterson Avenue and Nance Street in Perris, California as depicted in **Figure 1**. The official addresses of the parcels at the Subject Property are 4946-4800 Patterson Avenue, Perris, California 92571. The parcels are listed with the Riverside County Assessor's office as assessor parcel numbers (APN) 314-015-015 through 314-015-040, 314-015-042, 314-015-044, 314-015-046, 314-015-048, 314-016-005 through 314-016-012, and 314-016-33 (formerly referenced as parcels 314-016-003 and -004).

2.2 Current Uses and Improvements of Subject Property

The Subject Property consists of 39 parcels that are all currently unimproved and vacant, apart from one three-parcel lot in the northwest corner. The parcel in the northwest corner of the Subject Property is currently utilized for semi-truck trailer storage. Photographs taken during the Site Reconnaissance can be viewed in **Appendix A** which shows current uses and improvements of the Subject Property.

2.3 Current Land Uses of Adjoining and Surrounding Properties

The Subject Property is located in a mixed commercial, industrial and residential land use area (**Figure 2**). The Subject Property is bounded to the west by several commercial businesses including Perris Lake RV, Boat and Trailer, a warehouse to the south, recreational marijuana dispensaries to the north, and lastly, private residences and vacant, unimproved land to the east. Apex's visual and record review of adjoining and surrounding properties did not identify any current uses that are considered to be a REC with respect to the Subject Property.

TABLE 2-1: Adjacent and Surrounding Properties		
Direction	Description	
South	A warehouse.	
West	Patterson Avenue, with residential and RV and Boat Storage beyond.	
North	Commercial businesses, including High Season Dispensary, Green America, and Canna Cloud.	
East	Private residences and vacant, unimproved land.	



3.0 USER PROVIDED INFORMATION

This section summarizes the information provided by the User, Duke Realty (Duke), for this Phase I ESA. A User Questionnaire was prepared and sent to Duke to help retrieve the needed information and assist in gathering appropriate information that may help identify potential RECs on the property. A completed questionnaire was not received. Based on data obtained through other means, this is not considered a data gap.



4.0 RECORDS REVIEW

This section summarizes all records obtained by Environmental Data Resources, Inc. (EDR) and reviewed by Apex to help identify RECs in connection with the Subject Property. The first section (Section 4.1) discusses the physical setting sources that will provide an understanding of the physical characteristics of the Subject Property and surrounding area. This important information will help determine likelihood of potential of contaminants migrating onto the Subject Property from surrounding properties with environmental contaminants. The EDR Radius Map Report is presented in **Appendix B**.

4.1 Physical Setting Sources

Although the ASTM E1527-13 Standards only require a current U.S. Geological Survey (USGS) 7.5-Minute Topographic Map for analysis, that is not enough information to fully characterize the physical setting of the Subject Property. Apex utilized several sources to understand the physical properties of the Subject Property and surrounding area, as shown in **Table 4-1**. This information helps determine the likelihood of hazardous substances and/or petroleum contaminants migrating from surrounding areas through the soil and groundwater onto the Subject Property.

TABLE 4-1: Physical Setting Sources		
Data Type	Data Source	
Topography	United States Geological Survey (USGS) 7.5-minute topographic maps provided by EDR	
Floodplain	Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map	
Wetlands	Fish and Wildlife Service (FWS) National Wetlands Inventory (<u>http://www.fws.gov/wetlands/data/mapper.html</u>)	
Soils	United States Department of Agriculture (USDA) – Natural Resources Conservation Service (NRCS) Web Soil Survey (WSS) (<u>http://websoilsurvey.nrcs.usda.gov/app/</u>) 2020.	
Geology	California Department of Water Resources (DWR), 1961. Bulletin No. 118, California's Groundwater.	

4.1.1 Topography

According to the U.S. Geological Survey (USGS) California 7.5-minute topographic maps, the Subject Property is located at an elevation of approximately 1,500 feet above mean sea level (ft amsl). Regional topography is relatively flat with a gentle slope to the east.



4.1.2 Geology and Soils

The Subject Property is located in the northern end of the Peninsular Range geomorphic province as defined by the California Division of Mines and Geology. The Subject Property lies between the Elsinore-Chino fault zone to the southwest, and the San Jacinto fault zone to the northeast. The area between these two faults is known as the Perris Block or Perris Plain (TETC, 1994). Tectonic movement along these fault zones has occurred recently and is predominantly right-lateral strike-slip accompanied by a smaller component of dip-slip movement. Strike-slip movement along these faults ranges from 3 to 18 miles since the mid-Cretaceous time, with vertical displacement of several hundred to a few thousand feet (TETC, 1994).

The area surrounding the Subject Property is characterized by rugged mountains of igneous and metamorphic rock, broad erosional plains composed of heavily eroded sedimentary and crystalline basement rocks, and a broad, flat valley consisting of younger alluvial material. The U.S. Department of Agriculture's (USDA) Soil Conservation Service lists local soils at the Subject Property as predominantly RaA - Ramona sandy loam, which the USDA describes as well-drained granitic alluvial fan deposits (USDA, 2020).

4.1.3 Hydrology and Hydrogeology

The Subject Property is located in the Perris Valley where coarse-grained alluvial deposits comprise the primary aquifer. These deposits are highly permeable and capable of yielding large amounts of water under unconfined conditions. The permeability of the alluvium varies both laterally and vertically (TETC 1994). Based on subsurface characterization studies completed at the nearby March Air Force Base facility, roughly 2.5 miles north of the Subject Property, it appears the regional shallow subsurface is composed primarily of bedded alluvial deposits, with deeper saprolite soils derived from granitic parent rock. The saprolite soils are penetrated by bedrock outcrops, which indicate a thin layer of soil overlying the bedrock and weathered bedrock.

Regional groundwater yields in this zone are highly variable and is encountered at relatively shallow depths. Based on the rapid change in the water table in response to rain events, it is held in a thin aquifer. The groundwater is generally within the weathered bedrock zone. Wells drilled to bedrock indicate a thin zone of surface soil (saprolite) that grades into a decomposed granitic material. The bedrock contact appears to be relatively impermeable. Regional groundwater flow in the area of the Subject Property is toward the east, in general conformance to the topographic relief in the area.

The nearest surface water body is the Perris Reservoir, located roughly 3 miles east of the Subject Property. The Perris Reservoir is an artificial lake completed in 1973 that constitutes the southern terminus of the California State Water Project. The lake is situated in what is now the Lake Perris State Recreation Area, which provides a variety of recreational activities the public. The radius map within the EDR Report (**Appendix B**) contains layers from the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) and the Fish and Wildlife Service (FWS) National Wetlands Inventory Map. This figure shows that the Subject Property is not located on a national or state wetland or within a 500-year or a 100-year flood zone.



4.2 Environmental Record Review

The purpose of the environmental record review is to identify any records that are currently or historically associated with the Subject Property or adjacent/surrounding properties. This information will help identify any RECs in connection with the Subject Property and whether the listed Sites with environmental records have current or former releases of hazardous substances and/or petroleum products that may have the potential to migrate onto the Subject Property.

4.2.1 Standard and Additional Environmental Record Sources

Consistent with ASTM E1527-13, a search of federal, state, and tribal environmental record sources within the established minimum search distances was conducted for the Subject Property by EDR and provided to Apex for review. The records search is used to identify adjoining or surrounding properties within the minimum search distance that may have a REC, HREC, CREC, or a de minimis condition that may exist at the Subject Property in connection with the searched listing. Apex reviewed the listings provided in the EDR report and summarized significant listings below. A full list of databases searched for this review is included in the EDR Radius Map report in **Appendix B**.

Environmental record sources required by the ASTM standard are listed below in **Table 4-2** along with the additional database sources that were searched and produced a record result. Pertinent findings from the record review are discussed at the end of this section while significant findings as they pertain to RECs are discussed in Section 4.4 and referenced in Section 8.0, Conclusions and Recommendations.

TABLE 4-2: Summary of Environmental Database Information			
Environmental Record (Database Name)	Search Distance (Miles)	Listings within Search Distance	Subject Property Listed?
Standard Environmental Records Sources Requ	uired by AST	M E1527-13	
Federal National Priorities Sites List (NPL, Proposed NPL, NPL LIENS)	1.0	1	No
Federal Delisted NPL Sites	1.0	0	No
Federal SEMS List; Formerly Called CERCLIS List (SEMS)	0.5	1	No
Federal CERCLIS NFRAP Sites (SEMS-ARCHIVE)	0.5	0	No
Federal RCRA CORRACTS Facilities (CORRACTS)	1.0	0	No
Federal RCRA Non-CORRACTS TSD Facilities List (RCRA-TSDF)	0.5	0	No
Federal RCRA Generators List (RCRA-LQG, -SQG, -VSQG)	0.25	0	No



TABLE 4-2: Summary of Environmental Database Information			
Environmental Record (Database Name)	Search Distance (Miles)	Listings within Search Distance	Subject Property Listed?
Federal Institutional Control / Engineering Control Registries (IC/EC)	0.5	2	No
Federal Emergency Response Notification System (ERNS) List	Subject Property	0	No
California NPL Sites (RESPONSE)	1.0	0	No
California CERCLIS Sites (ENVIROSTOR)	1.0	1	No
California Landfill and Solid Waste Disposal Sites (SWF/LF)	0.5	0	No
California Leaking Storage Tank (LUST) Sites in GeoTracker (LUST, INDIAN LUST, CPS-SLIC)	0.5	0	No
California Storage Tank List (FEMA UST, UST, AST, INDIAN UST)	0.25	2	No
California Institutional Control / Engineering Control Registries: (DEED)	0.5	0	No
California Voluntary Cleanup Sites (VCP, INDIAN VCP)	0.5	0	No
California Brownfields Sites (BROWNFIELDS)	0.5	0	No
Additional State and Federal Record Sources	s with Record	Results	
US Brownfields	0.50	0	No
CA Lists of Landfill / Solid Waste Disposal Sites (SWRCY)	0.50	0	No
CA List of Hazardous Waste and Contaminated Sites (HIST Cal-Sites, SCH, CERS HAZ WASTE, PFAS)	1.00	2	No
CA Registered Storage Tanks (SWEEPS UST, HIST UST, FID)	0.25	1	No
Records of Emergency Release Reports (HMIRS, CHMIRS, LDS, MCS, SPILLS 90)	Subject Property	0	No
Federal RCRA NonGen / NLR	0.25	4	No
DOD	0.25	1	No
ROD	1.0	1	No
Mines List (US Mines, Abandoned Mines)	0.25	2	No
Facility Index System (FINDS)	Subject Property	0	No
Enforcement & Compliance History Information (ECHO)	Subject Property	0	No



TABLE 4-2: Summary of Environmental Database Information			
Environmental Record (Database Name)	Search Distance (Miles)	Listings within Search Distance	Subject Property Listed?
CA BOND EXP. PLAN	1.0	1	No
CA Hazardous Waste and Substances Sites List (CORTESE, HIST CORTESE)	0.5	0	No
Emissions Inventory Database (EMI)	Subject Property	0	No
Facility and Manifest Database (HAZNET)	Subject Property	0	No
Registered Hazardous Waste Transporter Database (HWT)	0.25	0	No
Proposition 65 Records (Notify 65)	1.0	0	No
California Integrated Water Quality System (CIWQS)	Subject Property	0	No
EDR High Risk Historical Records			
EDR Exclusive Records (EDR Hist Auto)	0.125	0	No
EDR Recovered Government Archives			
Exclusive Recovered Govt. Archives (RGA LF, RGA LUST)	Subject Property	0	No

4.2.2 Subject Property Environmental Record Results

The Subject Property was not listed in any databases in the EDR report. As such, Apex did not identify any RECs associated with its listings in the environmental databases.

4.2.3 Adjacent and Surrounding Properties' Environmental Record Results

There are several listings in the EDR report for off-site facilities within the applicable ASTM search radii. Several of these listings (i.e., small quantity hazardous waste generators, registered and historical underground storage tanks [USTs], solid waste disposal sites, permitted hazardous waste facilities), by themselves, are not necessarily indicative of a contamination concern and, therefore, are not discussed herein and were not further evaluated for purposes of this assessment. A number of facilities appear on databases indicating potential contamination concerns (e.g., ENVIROSTOR, Leaking Underground Storage Tank [LUST]; Spills, Leaks, Investigation, and Cleanup [SLIC]). Of the sites representing a potential environmental concern, Apex did not identify any sites located adjacent to or upgradient that would indicate an environmental risk to the Subject Property was present.



4.2.4 Environmental Liens Search

Environmental liens and Activity/Use Limitations (AULs) can commonly be found within recorded land title records (e.g., County Recorder/Registry of Deeds). The types of title reports that may disclose environmental liens and AULs include Preliminary Title Reports, Title Commitments, Condition of Title, and Title Abstracts. Chain-of-title reports will not normally disclose environmental liens or AULs. Environmental liens and AULs that are imposed by judicial authorities may be recorded or filed in judicial records only. An environmental lien report was requested from EDR for review and is pending. There are no environmental liens or AULs listed for the Subject Property. A copy of the AUL report is included in **Appendix C**.

4.2.5 Orphan Summary

The orphan or unmapped site list consists of site currently listed in federal or state database that have inadequate address information. Two orphan sites were identified in the database. The facilities identified are not considered an environmental concern due to distance, regulatory status, and/or topographic gradient.

4.3 Historical Use Records

Apex reviewed reasonably ascertainable records documenting the history of the use and/or ownership of the Subject Property and adjoining/surrounding properties. **Table 4-3** below summaries this historical use information.

TABLE 4-3: Historical Use Summary			
Year	Histor	Source	
	Subject Property	Surrounding Properties	
1901	The Subject Property appears vacant.	Sparse development. Railroad tracks are present approximately 0.25 miles to the west.	Topo Maps
1938-1947	The Subject Property appears to consist of agricultural land. A road (current day Nance Street) runs through the Subject Property	Agricultural and residential developments are present. Highway 395 runs parallel to the railroad tracks to the west.	Aerial Photos, Topo Maps
1949-1953	No discernable changes occurred at the Subject Property.	Several new agricultural and residential developments are added to the surrounding area.	Aerial Photos, Topo Maps
1961-1967	It appears the residential property to the east is using the eastern edge of the Subject Property for parking. A well is located on the property, just south of Nance Street.	The March Air Force Base runway appears to the northeast.	Aerial Photos, Topo Maps



TABLE 4-3: Historical Use Summary			
Year	Histor	Source	
rour	Subject Property	Surrounding Properties	Jource
1973-1978	No discernable changes occurred at the Subject Property.	Parcels to the north are developed	Aerial Photos, Topo Maps, City Directory
1979-2002	No discernable changes occurred at the Subject Property.	Additional developments to the north. Harley Knox Blvd is completed.	Aerial Photos, Topo Maps, City Directory
2006	The northwest corner of the Subject Property is being used for vehicle or trailer storage	No discernable changes occurred in the area surrounding the Subject Property.	Aerial Photos, City Directory
2009-2016	The northwest corner of the Subject Property is no longer used for vehicle or trailer storage. The southeast corner, south of Nance Street, is being used for parking.	No discernable changes occurred in the area surrounding the Subject Property.	Aerial Photos, City Directory

4.3.1 Aerial Photographs

Digital aerial photographs dated 1938, 1949, 1953, 1961, 1967, 1978, 1985, 1989, 1990, 1994, 2002, 2006, 2009, 2012, and 2016 provided by EDR were reviewed by Apex. Apex did not identify any RECs on the aerial photographs. Copies of aerial photographs are presented in **Appendix D** and summarized in **Table 4-3** above.

4.3.2 Topographic Maps

EDR provided historic topographic maps with coverage of the Subject Property dated 1901, 1942, 1943, 1947, 1953, 1967, 1973, 1978, 1979, and 2012 which were reviewed by Apex. Because they show many man-made features not evident in photographs, historical topographic maps are useful in documenting the history of developments and land use features on many properties, particularly those in rural, unincorporated areas.

A well was identified on the Subject property, from 1967 through the most recent 2012 map, located on the southeast corner, south of Nance Street. See section 4.4.3 for additional details.

Copies of these maps are included in Appendix E.

4.3.3 City Directories

EDR provided historic city directories for the years available between 1992 and 2017. Historical city directories, listed by street address, are frequently useful in documenting the historical occupancy of



properties in urban or otherwise incorporated areas that have a significant history of developed commercial use. A majority of the listings consist of household residents. A few businesses are listed. None of the listings identified are not considered an environmental concern. A copy of the City Directories Results is included as **Appendix F**.

4.3.4 Fire Insurance Maps

EDR did not find any fire insurance maps associated with the Subject Property.

4.3.5 Building Permit Record

Building permit records can be used to identify structures and/or features of previous or current properties on the Subject Property and adjacent/surrounding properties. This information can be used to determine potential environmental concerns through the presence of USTs, sump pumps, septic tanks and connection dates to sewer, electrical, water, and natural gas. No permits were found for the Subject Property and from adjacent and surrounding properties. A copy of the building permits report is included as **Appendix G**.

4.3.6 Property Tax Map

A property tax map was obtained from EDR. The map identifies the parcels that comprise the Subject Property as numbers 314-015-015 through 314-015-040, 314-015-042, 314-015-044, 314-015-046, 314-015-048, 314-016-005 through 314-016-012 and 314-016-33. The property tax map report is included as **Appendix H**.

4.4 Record Review Findings

Apex reviewed the available environmental and historical records for the Subject Property according to ASTM E1527-13 Standards. Based on physical setting source review, environmental records review, and historical use records, no RECs were identified.

4.4.1 Wells

4.4.1.1 Oil and Gas

Readily available data were reviewed to determine if oil and/or gas wells are located on or in the area of the Subject Property. Data sources reviewed include California Geologic Energy Management Division (CalGEM) Well Finder database.

No evidence of oil wells or gas wells was observed on or near the Subject Property.

4.4.1.2 Water Wells

Readily available data were reviewed to determine if water wells were located on the subject property. Data sources reviewed include California DWR Well Completion Report Map Application and State Water Resource Control Board (SWRCB) online database GeoTracker.



No evidence of any water wells on the property was fond in the databases. However, the symbol for a water-well is present on the USGS Topographic maps published between 1967 and 2012. Pipelines

Readily available data were reviewed to determine if pipelines are located on or in the area of the Subject Property. Data sources reviewed include the National Pipeline Mapping System (NPMS) Public Viewer database.

No evidence of pipelines was observed on or near the Subject Property.



5.0 SITE RECONNAISSANCE

The Subject Property was inspected on July 9, 2021 by Apex representative Jennifer Woods, under the supervision of Paisha Jorgensen, a qualified environmental professional. The additional parcels which were added to the Subject Property boundaries in the December 9, 2021 email correspondence were inspected at the same time due to the possibility that they may be added in at a later date.

Weather conditions at the time of the inspection were clear and temperatures of approximately 83 degrees Fahrenheit. Apex was unaccompanied during the site reconnaissance. The site reconnaissance consisted of a walk-through of the Subject Property. Apex did not encounter any significant access limitations during the site reconnaissance. Detailed information on the Site Reconnaissance can be found in **Appendix A**, which contains photographs taken during the site walk. This section summarizes significant findings of the site inspection of the Subject Property.

At the time of the site reconnaissance, the Subject Property consisted of 39 parcels that were primarily unimproved and vacant. The parcel in the northwest corner of the Subject Property was utilized for semi-truck trailer storage. Access to the Subject Property can be gained from Patterson Avenue to the west or Nevada Avenue to the east. Nance Street runs through the southern portion of the subject property.

5.1 Hazardous Substances and Petroleum Products

No hazardous substances or petroleum products were observed at the Subject Property.

5.2 Waste Generation, Storage, and Disposal

Waste is currently not generated onsite; however, general refuse in the form of household trash and used tires, discarded machinery, and boats were observed throughout the Subject Property.

5.3 Underground Storage Tanks & Aboveground Storage Tanks

No above ground storage tanks (ASTs) or USTs were observed at the Subject Property.

5.4 Polychlorinated Biphenyls (PCBs) and Oil-Containing Equipment

Polychlorinated biphenyls (PCBs) are known to be a component in fluids used in electrical and hydraulic equipment, lubricating oils, paints and coatings manufactured prior to 1979. In the event of a leak or release of fluid or oil-containing equipment, the owner is responsible for remediation.

Two pole-mounted transformers were observed at the Subject Property along Nevada Avenue and along Patterson Avenue near the trailer storage. Both transformers were in good condition with no evidence of leaking.



5.5 Other Observations

Apex did not find evidence of unusual odors, wells, septic systems, stressed vegetations, ponds, or lagoons on the Subject Property. A concrete pad indicative of a former structure was observed along Nevada Avenue on the east portion of the Subject Property.

5.6 Findings from the Subject Property Reconnaissance

Apex did not identify any RECs during the site reconnaissance associated with the Subject Property.



6.0 INTERVIEWS

No interviews were conducted during the preparation of this Phase I ESA.



7.0 CONDITIONS OUTSIDE THE SCOPE OF ASTM E1527-13

According to the ASTM E1527-13 Standards, Duke Realty may conduct additional investigations to assess the other environmental conditions in connection with the commercial real estate. At the request of Duke, Apex did not conduct any additional investigations at the Subject Property.



8.0 CONCLUSIONS AND RECOMMENDATIONS

Apex performed this Phase I ESA in accordance with the U.S. Environmental Protection Agency's 40 CFR, Part 312 Standards and Practices for All Appropriate Inquiries (AAI) and ATSM E1527-13: "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" and the proposal from Duke to Apex dated July 7, 2021. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report.

This assessment has revealed no RECs in connection with the Subject Property.

Apex has identified the following Business Environmental Risks:

- The Subject Property has historically been used for agricultural purposes dating from prior to 1938 until between 2009-2012. OCPs were used extensively from the 1940s through the 1960s in the agricultural industry. Arsenic may also be found in old agricultural soils. Based these findings, Apex recommends collecting 4 surface (0-0.5 feet below ground surface) at a minimum in each quarter of the Subject Property and have them analyzed for OCPs and metals for worker soil handling safety purposes.
- A possible water-well was identified on the historic topographic maps from 1967 through the most recent 2012 map, located on the southeast corner, south of Nance Street. A record search was performed to determine the status of the well. No records were found in the databases. A well is considered a potential preferential pathway to subsurface groundwater. Apex considers the water-well to be a Business Environmental Risk (BER) and recommends performing an investigation to determine if the well is still present on the Subject Property. If the well is found it should be properly abandoned.



9.0 ENVIRONMENTAL PROFESSIONALS

9.1 Signatures of Responsible Environmental Professionals

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR Part 312, and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Suzanne Nase	Robert Robitaille
Staff Geologist	Senior Geologist

9.2 Qualifications of Responsible Environmental Professionals

Ms. Nase has a Bachelor of Science Degree in Geological Sciences and has over 10 years of professional experience in the environmental consulting field. Ms. Nase is an environmental professional as defined in § 312.10 of 40 CFR Part 312.

Mr. Robitaille holds a Bachelor of Science Degree in Geology and has over 30 years of professional experience in the environmental consulting field. Mr. Robitaille is an environmental professional as defined in § 312.10 of 40 CFR Part 312.

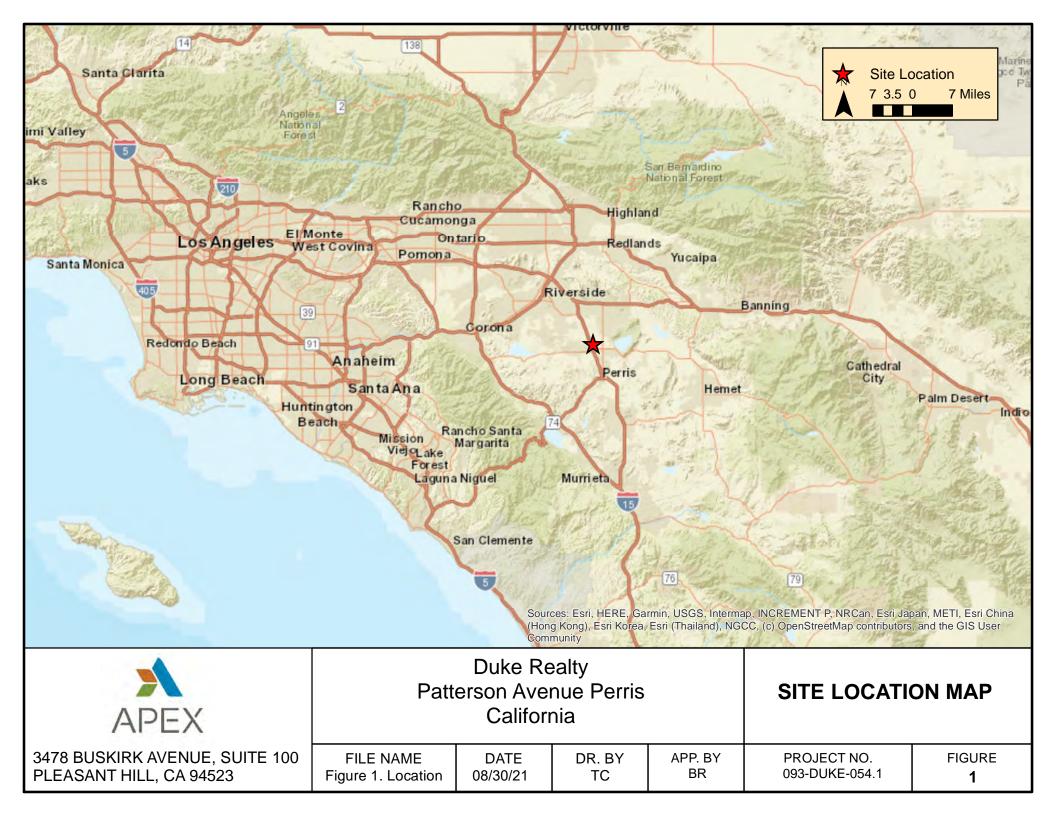


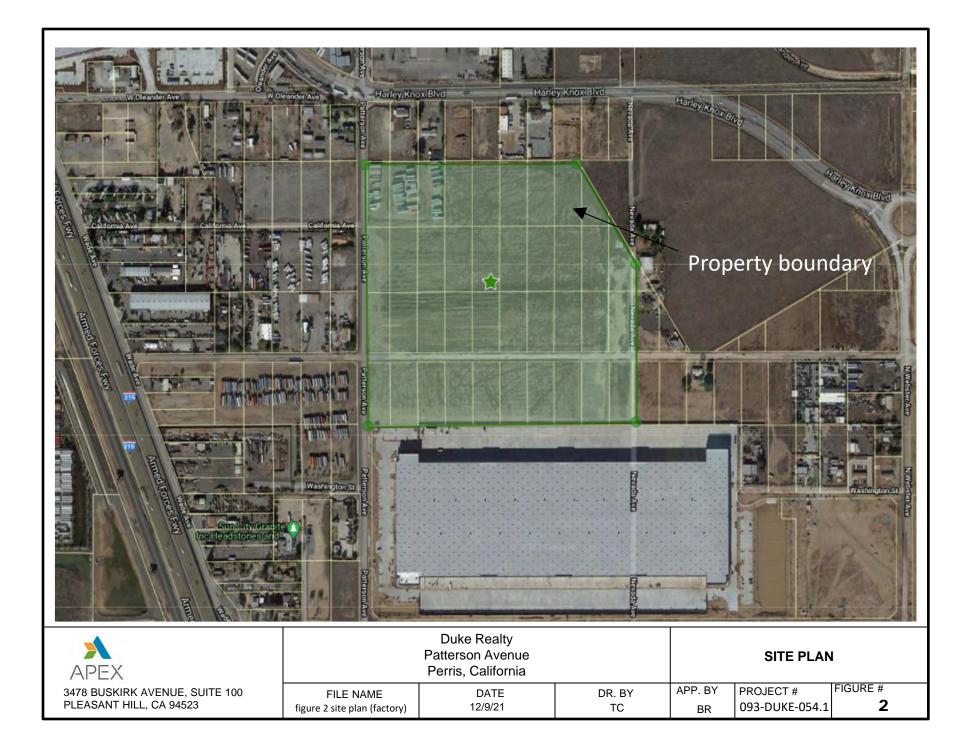
10.0 REFERENCES

- ASTM Designation E1527 13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. 2013.
- California Department of Conservation, Geologic Energy Management Division (CalGEM) Well Finder website: <u>https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx.</u>
- California Department of Water Resources, 2003. Bulletin No. 118, California's Groundwater.
- California Department of Water Resources Well Completion Report Map Application website: <u>https://dwr.maps.arcgis.com/apps/webappviewer/index.html?id=181078580a214c0986e2da2</u> <u>8f8623b37.</u>
- California State Water Resources Control Board (SWRCB). GeoTracker Data Management System. <u>http://www.geotracker.waterboards.ca.gov</u>.
- Department of Toxic Substances Control (DTSC). Envirostor data management system. 2018. http://www.envirostor.dtsc.ca.gov
- Environmental Data Resources, Inc. EDR Aerial Photo Decade Package. August 30, 2021
- Environmental Data Resources, Inc. EDR Building Permit Report. August 30, 2021
- Environmental Data Resources, Inc. The EDR City Directory Image Report. August 30, 2021
- Environmental Data Resources, Inc. EDR Historical Topo Map Report. August 30, 2021
- Environmental Data Resources, Inc. The EDR Radius Map Report with GeoCheck. December 9, 2021
- Environmental Data Resources, Inc. The EDR Property Tax Map Report. August 30, 2021
- Environmental Data Resources, Inc. Certified Sanborn Map Report. August 30, 2021
- Environmental Data Resources, Inc. EDR Environmental Lien and AUL Search. August 30, 2021
- Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map
- Fish and Wildlife Service (FWS) National Wetlands Inventory. 2018. http://www.fws.gov/wetlands/data/mapper.HTML
- 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).
- National Pipeline Mapping System Public Viewer website: https://pvnpms.phmsa.dot.gov/PublicViewer/.
- United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey (WSS). http://websoilsurvey.nrcs.usda.gov/app/



FIGURES





APPENDIX A

SITE RECONNAISSANCE PHOTOGRAPHS



Project Name: Patterson Avenue and Nance Street **Project Number:** 093-DUKE-054.1

Photo No: 1	
Photo Date: 7/9/21	
Orientation: Northwest	
Description: View of the truck trailer storage on the northwest parcel of the subject property.	
Photo No: 2	
Photo Date: 7/9/21	
Orientation: West	
Description: View of the truck trailer storage on the northwest parcel of the subject property.	



Project Name: Patterson Avenue and Nance Street **Project Number:** 093-DUKE-054.1

Photo No: 3	
Photo Date: 7/9/21	
Orientation: Northwest.	
Description: View of the west portion of the subject property.	
Photo No: 4	
Photo Date: 7/9/21	
Orientation: North	the section of the se
Description: View of general refuse scattered throughout property.	



Project Name: Patterson Avenue and Nance Street Project Number: 093-DUKE-054.1

Γ	1
Photo No: 5	
Photo Date: 7/9/21	
Orientation: South	
Description:	
View of boat dumped on the central portion of the subject property.	
Photo No: 6	
Photo Date: 7/9/21	
Orientation: East	*
Description: View of the south portion of the property.	
property.	



Project Name: Patterson Avenue and Nance Street **Project Number:** 093-DUKE-054.1

Photo No: 7	
Photo Date: 7/9/21	
Orientation: South	
Description: View of the southeast portion of the subject property with the south adjoining property beyond.	
Photo No: 8	
Photo Date: 7/9/21	
Orientation: North	
Description: View of discarded portions of machinery located on the east side of the subject property.	



Project Name: Patterson Avenue and Nance Street **Project Number:** 093-DUKE-054.1

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Project Name: Patterson Avenue and Nance Street **Project Number:** 093-DUKE-054.1

Photo No: 11	
Photo Date: 7/9/21	
Orientation: West	÷
Description:	The second is a second s
View of the east portion of the property.	
Photo No: 12	
Photo Date: 7/9/21	
Orientation: North	



Project Name: Patterson Avenue and Nance Street **Project Number:** 093-DUKE-054.1

Photo No: 13	
Photo Date: 7/9/21	
Orientation: West	
Description: View of the west adjoining property.	
Photo No: 14	
Photo No: 14 Photo Date: 7/9/21	

APPENDIX B

ENVIRONMENTAL DATA RESOURCES REPORT

Duke - Patterson Avenue

Patterson Avenue Perris, CA 92571

Inquiry Number: 6783188.2s December 09, 2021

The EDR Radius Map[™] Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

FORM-LBE-DLU

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Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (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

PATTERSON AVENUE PERRIS, CA 92571

COORDINATES

Latitude (North):	33.8548560 - 33 51' 17.48"
Longitude (West):	117.2521280 - 117 15' 7.66''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	476676.4
UTM Y (Meters):	3745897.5
Elevation:	1498 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Version Date:

2018

Southeast Map: Version Date: 12015907 PERRIS, CA 2018

12015925 STEELE PEAK, CA

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

Target Property Address: PATTERSON AVENUE PERRIS, CA 92571

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	MARCH AIR FORCE BASE		DOD	Same	1463, 0.277, North
Reg	MARCH AIR FORCE BASE	22 CSG/CC	NPL, SEMS, RCRA-LQG, US ENG CONTROLS, US INST	Same	1835, 0.348, NE
A1	GARCIA JUAREZ CONSTR	4517 WADE AVE	AST	Higher	926, 0.175, WSW
A2	ONSITE KRUSHING CO.	4517 WADE AVENUE	ABANDONED MINES	Higher	926, 0.175, WSW
A3	GRFCO, INC.	4517 WADE AVE	CERS HAZ WASTE, CERS TANKS, HAZNET, CERS, HW	TS Higher	926, 0.175, WSW
A4	ONSITE KRUSHING CO.	4517 WADE AVENUE	US MINES	Higher	926, 0.175, WSW
A5	GRFCO INC.	4517 WADE AVE	RCRA NonGen / NLR	Higher	926, 0.175, WSW
A6	HIGH REACH EQUIPMENT	4461 WADE AVE	RCRA NonGen / NLR	Higher	933, 0.177, WSW
7	NEW CINGULAR WIRELES	4441 WADE AVE	RCRA NonGen / NLR	Higher	1036, 0.196, SW
8	WEST TOW INC	4615 WADE AVE	RCRA NonGen / NLR	Higher	1159, 0.220, WNW
9	INLAND PLASTERING	1153 W OLEANDER AVE	UST	Lower	1296, 0.245, North
B10	MARCH AIR FORCE BASE		CA BOND EXP. PLAN	Lower	5178, 0.981, NNE
B11	MARCH AIR RESERVE BA	3,545 ACRES; EAST OF	ENVIROSTOR, HIST Cal-Sites	Lower	5178, 0.981, NNE

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

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

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-LQG
 RCRA - Large Quantity Generators

 RCRA-SQG
 RCRA - Small Quantity Generators

 RCRA-VSQG
 RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS_____ Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing INDIAN UST...... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9	. Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
	National Clandestine Laboratory Register
PFAS	PFAS Contamination Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CA FID UST	

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS RMP RAATS PRP PADS ICIS FTTS MLTS COAL ASH DOE COAL ASH DOE COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA LEAD SMELTERS US AIRS FINDS	 2020 Corrective Action Program List Toxic Substances Control Act Toxic Chemical Release Inventory System Section 7 Tracking Systems Risk Management Plans RCRA Administrative Action Tracking System Potentially Responsible Parties PCB Activity Database System Integrated Compliance Information System FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) Material Licensing Tracking System Steam-Electric Plant Operation Data Coal Combustion Residues Surface Impoundments List PCB Transformer Registration Database FIFRA/TSCA Tracking System Administrative Case Listing Incident and Accident Data Superfund (CERCLA) Consent Decrees Indian Reservations Formerly Utilized Sites Remedial Action Program Uranium Mill Tailings Sites Lead Smelter Sites Aerometric Information Retrieval System Facility Subsystem
US AIRS	Aerometric Information Retrieval System Facility Subsystem
UXO	Unexploded Ordnance Sites Enforcement & Compliance History Information
	Hazardous Waste Compliance Docket Listing

Cortese. CUPA Listings. DRYCLEANERS. EMI. ENF. Financial Assurance. HAZNET. ICE. HIST CORTESE. HWP. HWT. MINES. MWMP. NPDES. PEST LIC. PROC. Notify 65. UIC. UIC GEO. WASTEWATER PITS. WDS. WIP. MILITARY PRIV SITES. PROJECT. WDR. CIWQS. CERS. NON-CASE INFO. OTHER OIL GAS.	Cleaner Facilities Emissions Inventory Data Enforcement Action Listing Financial Assurance Information Listing Facility and Manifest Data ICE Hazardous Waste & Substance Site List EnviroStor Permitted Facilities Listing Registered Hazardous Waste Transporter Database Mines Site Location Listing Medical Waste Management Program Listing NPDES Permits Listing Pesticide Regulation Licenses Listing Certified Processors Database Proposition 65 Records UIC Listing UIC GEO (GEOTRACKER) Oil Wastewater Pits Listing Waste Discharge System Well Investigation Program Case List MILITARY PRIV SITES (GEOTRACKER) PROJECT (GEOTRACKER) Waste Discharge Requirements Listing California Integrated Water Quality System CERS NON-CASE INFO (GEOTRACKER) OTHER OIL & GAS (GEOTRACKER)
NON-CASE INFO OTHER OIL GAS PROD WATER PONDS SAMPLING POINT WELL STIM PROJ	NON-CASE INFO (GEOTRACKER) OTHER OIL & GAS (GEOTRACKER) PROD WATER PONDS (GEOTRACKER) SAMPLING POINT (GEOTRACKER) Well Stimulation Project (GEOTRACKER)
	. Mineral Resources Data System . Hazardous Waste Tracking System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 10/20/2021 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE Cerclis ID:: 902761	22 CSG/CC	NE 1/4 - 1/2 (0.348 mi.)	0	9
EPA Id: CA4570024527				

Lists of Federal sites subject to CERCLA removals and CERCLA orders

SEMS: 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.

A review of the SEMS list, as provided by EDR, and dated 10/20/2021 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE Site ID: 0902761 EPA Id: CA4570024527	22 CSG/CC	NE 1/4 - 1/2 (0.348 mi.)	0	9

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 08/23/2021 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE EPA ID:: CA4570024527 EPA ID:: CA4570024527	22 CSG/CC	NE 1/4 - 1/2 (0.348 mi.)	0	9

US INST CONTROLS: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROLS list, as provided by EDR, and dated 08/23/2021 has revealed that there is 1 US INST CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE	22 CSG/CC	NE 1/4 - 1/2 (0.348 mi.)	0	9
EPA ID:: CA4570024527				

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/22/2021 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR RESERVE BA Facility Id: 33970004	3,545 ACRES; EAST OF	NNE 1/2 - 1 (0.981 mi.)	B11	81
Status: Active				

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
INLAND PLASTERING	1153 W OLEANDER AVE	N 1/8 - 1/4 (0.245 mi.)	9	81
Database: UST, Date of Governi	ment Version: 09/07/2021			
Facility Id: 410				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GARCIA JUAREZ CONSTR	4517 WADE AVE	WSW 1/8 - 1/4 (0.175 mi.)	A1	46
Database: AST, Date of Government Ve	rsion: 07/06/2016			

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR RESERVE BA	3,545 ACRES; EAST OF	NNE 1/2 - 1 (0.981 mi.)	B11	81

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 07/15/2021 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRFCO, INC.	4517 WADE AVE	WSW 1/8 - 1/4 (0.175 mi.)	A3	48

Local Lists of Registered Storage Tanks

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 07/15/2021 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRFCO, INC.	4517 WADE AVE	WSW 1/8 - 1/4 (0.175 mi.)	A3	48

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2021 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRFCO INC. HIGH REACH EQUIPMENT NEW CINGULAR WIRELES EPA ID:: CAL000442756	4517 WADE AVE 4461 WADE AVE 4441 WADE AVE	WSW 1/8 - 1/4 (0.175 mi.) WSW 1/8 - 1/4 (0.177 mi.) SW 1/8 - 1/4 (0.196 mi.)		71 73 76
WEST TOW INC EPA ID:: CAL000452698	4615 WADE AVE	WNW 1/8 - 1/4 (0.220 mi.)	8	78

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE		N 1/4 - 1/2 (0.277 mi.)	0	9

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 10/20/2021 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE	22 CSG/CC	NE 1/4 - 1/2 (0.348 mi.)	0	9

EPA ID:: CA4570024527

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the US MINES list, as provided by EDR, has revealed that there is 1 US MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONSITE KRUSHING CO.	4517 WADE AVENUE	WSW 1/8 - 1/4 (0.175 mi.)	A4	64
Database: MINES VIOLATIONS, D	Date of Government Version: 06/30/2021			

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.

A review of the ABANDONED MINES list, as provided by EDR, and dated 06/15/2021 has revealed that there is 1 ABANDONED MINES site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONSITE KRUSHING CO.	4517 WADE AVENUE	WSW 1/8 - 1/4 (0.175 mi.)	A2	47

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE		NNE 1/2 - 1 (0.981 mi.)	B10	81

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

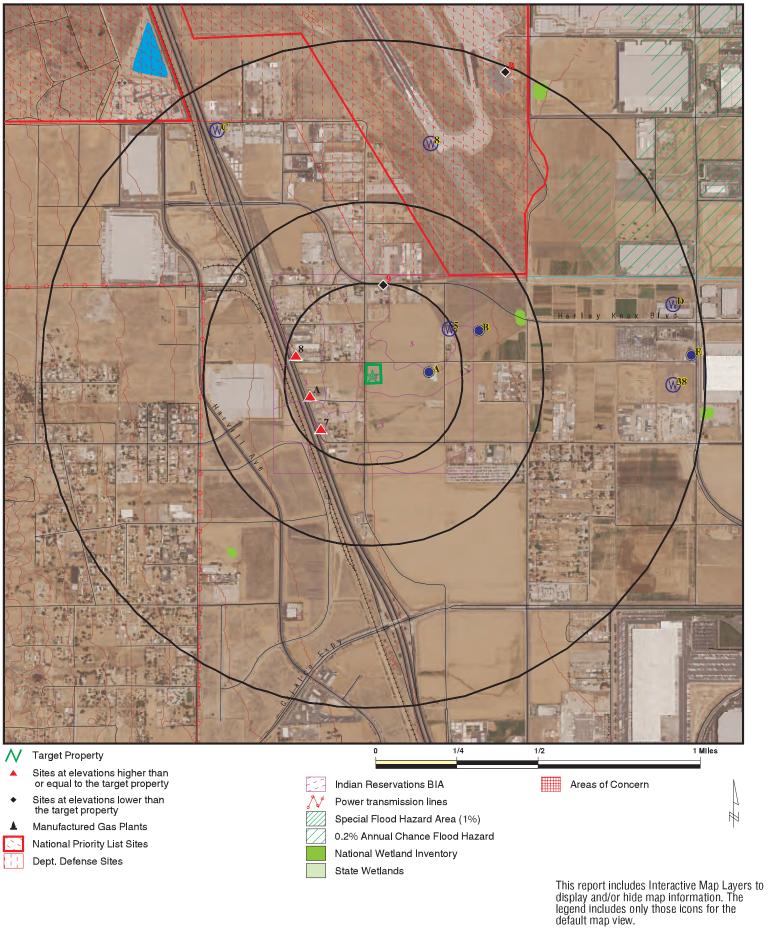
Site Name

Database(s)

FUTURE TRUCK TERMINAL

CDL CPS-SLIC

OVERVIEW MAP - 6783188.2S



ADDRESS:	Patterson Avenue Perris CA 92571	CONTACT: INQUIRY #:	APEX Environmental Tania Cowden 6783188.2s December 09, 2021 6:03 pm

DETAIL MAP - 6783188.2S



Sites at elevations lower than the target property

- Manufactured Gas Plants
- Sensitive Receptors £.
- National Priority List Sites
- Dept. Defense Sites

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

樹

SITE NAME:	Duke - Patterson Avenue	CLIENT:	APEX Environmental
ADDRESS:	Patterson Avenue	CONTACT:	Tania Cowden
	Perris CA 92571	INQUIRY #:	6783188.2s
LAT/LONG:	33.854856 / 117.252128	DATE:	December 09, 2021 6:05 pm

0.2% Annual Chance Flood Hazard

Copyright © 2021 EDR, Inc. © 2015 TomTom Rel. 2015.

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Lists of Federal NPL (Su	ıperfund) site	S						
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	1 0 0	0 0 0	NR NR NR	1 0 0
Lists of Federal Delisted	NPL sites							
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites su CERCLA removals and		ers						
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 1	NR NR	NR NR	0 1
Lists of Federal CERCL	A sites with N	IFRAP						
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA for undergoing Corrective A								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA 1	SD facilities							
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA g	enerators							
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG RCRA-VSQG	0.250 0.250		0 0	0 0	NR NR	NR NR	NR NR	0 0
Federal institutional cor engineering controls re	ntrols /		-					-
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	1	NR	NR	1
US INST CONTROLS Federal ERNS list	0.500		0	0	1	NR	NR	1
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent			0	INIX	INIX	INIX	INIX	0
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste faciliti			0	J	5	Ŭ		J
ENVIROSTOR	1.000		0	0	0	1	NR	1
Lists of state and tribal and solid waste disposa	landfills							
SWF/LF	0.500		0	0	0	NR	NR	0

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 stora	ge tanks						
LUST INDIAN LUST CPS-SLIC	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Lists of state and tribal	registered sto	orage tanks						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0 0	0 1 1 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 1 1 0
Lists of state and tribal	voluntary clea	anup sites						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Lists of state and tribal	brownfield si	tes						
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	NTAL RECORD	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	' Solid							
WMUDS/SWAT SWRCY HAULERS INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.001 0.500 0.500 0.500 0.500		0 0 0 0 0 0	0 0 NR 0 0 0 0	0 0 NR 0 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0 0 0
Local Lists of Hazardou Contaminated Sites	us waste /							
US HIST CDL HIST Cal-Sites SCH CDL CERS HAZ WASTE Toxic Pits US CDL PFAS AQUEOUS FOAM	0.001 1.000 0.250 0.001 0.250 1.000 0.001 0.500 TP		0 0 0 0 0 0 0 0 0 NR	NR 0 NR 1 0 NR 0 NR	NR 0 NR NR 0 NR 0 NR	NR 1 NR NR 0 NR NR NR	NR NR NR NR NR NR NR NR	0 1 0 1 0 0 0 0 0
Local Lists of Register	ed Storage Tai	nks						
SWEEPS UST HIST UST CERS TANKS	0.250 0.250 0.250		0 0 0	0 0 1	NR NR NR	NR NR NR	NR NR NR	0 0 1

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
Local Land Records								
LIENS LIENS 2 DEED	0.001 0.001 0.500		0 0 0	NR NR 0	NR NR 0	NR NR NR	NR NR NR	0 0 0
Records of Emergency F	Release Repo	orts						
HMIRS CHMIRS LDS MCS SPILLS 90	0.001 0.001 0.001 0.001 0.001		0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Other Ascertainable Rec			-					
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS ROD RMP RAATS PRP PADS	0.250 1.000 1.000 0.500 0.001 0.250 0.001 0.001 1.000 0.001 0.001 0.001 0.001 0.001 0.001 0.001		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 0 NR NR 0 NR NR NR NR NR NR NR NR NR	NR 0 1 0 NR NR NR NR NR NR NR NR NR NR NR NR	NR 0 NR NR NR NR NR NR NR NR NR NR NR	NR NR NR NR NR NR NR NR NR NR NR NR NR	4 0 1 0 0 0 0 0 0 1 0 0 0 0 0
ICIS FTTS MLTS COAL ASH DOE COAL ASH EPA PCB TRANSFORMER RADINFO HIST FTTS DOT OPS CONSENT INDIAN RESERV FUSRAP UMTRA LEAD SMELTERS US AIRS US MINES ABANDONED MINES FINDS UXO ECHO DOCKET HWC	0.001 0.001 0.001 0.001 0.500 0.001 0.001 0.001 1.000 1.000 1.000 0.001 0.250 0.250 0.001 1.000 0.250 0.001 1.000 0.250 0.001 1.000 0.001			NR NR NR NR NR NR NR NR NR NR NR NR NR N	NR NR NR NR NR NR NR NR NR NR NR NR NR N	NR NR NR NR NR NR NR NR NR NR NR NR NR N	NR NR NR NR NR NR NR NR NR NR NR NR NR N	

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.200		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	õ	0	NR	0
HWT	0.250		0	Ő	NR	NR	NR	0
MINES	0.250		Õ	Ő	NR	NR	NR	Ő
MWMP	0.250		Õ	Ő	NR	NR	NR	Ő
NPDES	0.001		Õ	NR	NR	NR	NR	Õ
PEST LIC	0.001		Õ	NR	NR	NR	NR	Õ
PROC	0.500		Ō	0	0	NR	NR	0
Notify 65	1.000		Ō	0	Ō	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICA	L 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		Ő	NR	NR	NR	NR	Ő
			Ũ					Ũ
EDR RECOVERED GOVERN		VES						
Exclusive Recovered Go	vt. Archives							
RGA LF	0.001		0	NR	NR	NR	NR	0
RGALUST	0.001		Ő	NR	NR	NR	NR	Ő
	0.001		Ŭ					5
- Totals		0	0	10	6	3	0	19

	Search							
Database	Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
	(

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID		
Direction		
Distance		
Elevation	Site	

Substance:

NPL Status:

Substance ID:

CAS Number:

Substance:

Pathway: Scoring: MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

DOD Region	MARCH AIR FORCE	BASE (CLOSED)		DOD	CUSA143538 N/A
North 1/4-1/2 1463 ft.	MARCH AIR FORCE	BASE (CLO (County), (CA		
	DOD: Feature 1: Feature 2: Feature 3: URL: Name 1: Name 1: Name 2: Name 3: State: DOD Site: Tile name:	Air Force DOD Not reported Not reported March Air Force Base Not reported Not reported CA Yes CARIVERSIDE	(Closed)		
NPL Region NE 1/4-1/2 1835 ft.	MARCH AIR FORCE 22 CSG/CC RIVERSIDE, CA 925			NPL SEMS RCRA-LQG US ENG CONTROLS US INST CONTROLS ROD PRP	1000169261 CA4570024527
	NPL:				
	EPA Region:		9		
	EPA ID:		CA4570024527		
	Site ID:		902761		
	Name:		MARCH AIR FORCE BASE		
	Address:		22 CSG/CC		
	City,State,Zip:		RIVERSIDE, CA 92518		
	Federal:		Y		
	Final Date:		1989-11-21 00:00:00		
	Latitude:		33.906389		
	Longitude:		-117.2557		
	Site Score:		31.94000000000001		
	NAI:		Not reported		
	Native Americar	n Entity:	Not reported		
	NPL:				
	NPL Status:		Currently on the Final NPL		
	Substance ID:		Not reported		
	CAS Number:		Not reported		
	Substance:		Not reported		
	Pathway: Scoring:		Not reported Not reported		
	Sconny.		not reported		
	NPL Status:		Currently on the Final NPL		
	Substance ID:		A046		
	CAS Number:		1336-36-3		
	Substance				

1336-36-3 POLYCHLORINATED BIPHENYLS GROUND WATER PATHWAY 3

Currently on the Final NPL U210 127-18-4 TETRACHLOROETHENE

Database(s)

EDR ID Number EPA ID Number

Pathway: Scoring:		GROUND WATER PATHWAY 2
NPL Status: Substance ID: CAS Number:		Currently on the Final NPL U228 79-01-6
Substance: Pathway: Scoring:		TRICHLOROETHYLENE (TCE) GROUND WATER PATHWAY 2
Summary Details:		July 14, 1989): March Air Force Base MAFB) cove
	County, California. MA residential areas. Estat has served as a trainin operations including air solvents and disposal of Installation Restoration program, the Departme up contamination from investigated 28 potentia on-base was found to be tetrachloroethylene, and drinking water standard contaminated with tolue drinking water from mu MAFB. The Air Forceis study RI/FS) to determ	cres near Riverside in the Moreno Valley in Riversic FB is adjacent to light industrial, agricultural, and olished in 1918 as the Alessandro Aviation Field, M g base and refueling operations base. Industrial rcraft maintenance and repair) involved use of of solvent wastes. MAFB is participating in the p Program IRP), established in 1978. Under this ent of Defense seeks to identify, investigate, and cle ha ardous materials. As part ofIRP, the Air Force ally contaminated disposal areas. MAFB Well No. 1 be contaminated with trichloroethylene, id cis-1,2-dichloroethylene at levels that exceed Sta ds. It was taken out of service. Soils on the base are ene and ben ene. An estimated 11,600 people obta inicipal wells within 3 miles of ha ardous substances conducting a remedial investigation/ feasibility ine the type and extent of contamination at the base s for remedial action. Status November 21, nues on the RI/FS.
NPL:		
NPL Status: Category Descrij Category Value:	otion:	Currently on the Final NPL Depth To Aquifer-> 50 And <= 100 Feet 65
NPL Status: Category Descrij Category Value:	otion:	Currently on the Final NPL Distance To Nearest Population-> 0 And <= 1/4 I 10
NPL: NPL Name:		MARCH AIR FORCE BASE
NPL:		
EPA Region:		09 0902761
EPA Region: Site ID: Site Status:		0902761 F
EPA Region: Site ID: Site Status: Federal Site:		0902761 F Y
EPA Region: Site ID: Site Status:		0902761 F

Database(s)

EDR ID Number **EPA ID Number**

MARCH AIR FORCE BASE (Continued)

11/21/1989
Not reported
Final

SEMS:

Site ID: 0902761 EPA ID: CA4570024527 Name: MARCH AIR FORCE BASE Address: 22 CSG/CC Address 2: Not reported City,State,Zip: Cong District: 41,43 FIPS Code: 06065 Latitude: 33.906389 Longitude: -117.255700 FF: Υ NPL: Non NPL Status: Not reported SEMS Detail: Region: Site ID: EPA ID: Site Name: NPL: F FF: Υ OU: Action Code: Action Name: SEQ: 1 Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: F FF: Υ OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: F FF:

RIVERSIDE, CA 92518 Currently on the Final NPL 09 0902761 CA4570024527 MARCH AIR FORCE BASE 00 AR ADMIN REC 2000-10-24 04:00:00 Not reported Not reported EPA Perf 09 0902761 CA4570024527 MARCH AIR FORCE BASE 00 NP PROPOSED 1989-07-14 04:00:00 7/14/1989 4:00:00 AM Not reported EPA Perf 09 0902761 CA4570024527 MARCH AIR FORCE BASE Υ

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

OU:

Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID:

EPA ID:

00 NF NPL FINL 1 1989-11-21 05:00:00 11/21/1989 5:00:00 AM Not reported EPA Perf 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 00 HR HAZRANK 1 1987-06-01 04:00:00 6/1/1987 4:00:00 AM Not reported EPA Perf 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 02 LW FF RI/FS 4 1992-01-24 05:00:00 4/30/1995 4:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 02 RO ROD 5 2005-09-30 04:00:00 9/30/2005 4:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Site Name:

NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead:

MARCH AIR FORCE BASE F Υ 05 RO ROD 6 2019-04-22 05:00:00 4/22/2019 5:00:00 AM R Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 00 SI SI 1 1987-06-01 04:00:00 6/1/1987 4:00:00 AM L Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 05 LW FF RI/FS 5 2005-10-30 04:00:00 5/21/2015 5:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 02 RO ROD 4 2004-05-11 04:00:00 5/11/2004 4:00:00 AM Not reported Fed Fac

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date:

09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 01 LW FF RI/FS 1 1990-09-27 04:00:00 6/20/1996 4:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 04 LW FF RI/FS 2 1990-09-27 04:00:00 9/29/2005 4:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 04 RO ROD 3 2005-09-29 04:00:00 9/29/2005 4:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 01 LX FF RD 1996-04-07 05:00:00 4/18/1996 4:00:00 AM

Database(s) El

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code:

Action Name:

Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 00 DS DISCVRY 1 1985-02-01 06:00:00 2/1/1985 6:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 01 LY FF RA 1 1996-03-05 05:00:00 Not reported Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 02 RO ROD 7 2004-04-01 05:00:00 4/1/2004 5:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 02 LW FF RI/FS

6

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead: Region: Site ID: EPA ID: Site Name: NPL: FF: OU: Action Code: Action Name: SEQ: Start Date: Finish Date: Qual: Current Action Lead:

1995-07-01 04:00:00 7/1/1997 4:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 01 RO ROD 1 1996-06-20 04:00:00 6/20/1996 4:00:00 AM Not reported Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Υ 00 PA PA 1 1987-02-01 05:00:00 2/1/1987 5:00:00 AM L Fed Fac 09 0902761 CA4570024527 MARCH AIR FORCE BASE F Y 01 EE EE/CA 2018-11-12 06:00:00 11/12/2018 6:00:00 AM Not reported Fed Fac

RCRA-LQG: Date Form Received by Agency: Handler Name: Handler Address: Handler City,State,Zip:

20200708 MARCH AIR RESERVE BASE 610 MEYER DR MARCH ARB, CA 92518

EDR ID Number Database(s) EPA ID Number

MARCH AIR FORCE BASE (Continued)

Permit Progress Universe:

Closure Workload Universe:

Post-Closure Workload Universe:

202 GPRA Corrective Action Baseline:

Corrective Action Workload Universe:

Subject to Corrective Action Universe:

Non-TSDFs Where RCRA CA has Been Imposed Universe:

EPA ID: Contact Name: Contact Address: Contact City, State, Zip: Contact Telephone: Contact Fax: Contact Email: Contact Title: EPA Region: Land Type: Federal Waste Generator Description: Non-Notifier: **Biennial Report Cycle:** Accessibility: Active Site Indicator: State District Owner: State District: Mailing Address: Mailing City, State, Zip: **Owner Name:** Owner Type: **Operator Name:** Operator Type: Short-Term Generator Activity: Importer Activity: Mixed Waste Generator: Transporter Activity: Transfer Facility Activity: Recycler Activity with Storage: Small Quantity On-Site Burner Exemption: Smelting Melting and Refining Furnace Exemption: **Underground Injection Control:** Off-Site Waste Receipt: Universal Waste Indicator: Universal Waste Destination Facility: Federal Universal Waste: Active Site Fed-Reg Treatment Storage and Disposal Facility: Active Site Converter Treatment storage and Disposal Facility: Active Site State-Reg Treatment Storage and Disposal Facility: Active Site State-Reg Handler: Federal Facility Indicator: Hazardous Secondary Material Indicator: Sub-Part K Indicator: Commercial TSD Indicator: Treatment Storage and Disposal Type: 2018 GPRA Permit Baseline: 2018 GPRA Renewals Baseline: Permit Renewals Workload Universe: Permit Workload Universe:

1000169261 CA4570024527 SEAN LEE MEYER DR MARCH ARB, CA 92518 951-655-5082 Not reported SEAN.LEE.19@US.AF.MIL HAZARDOUS MATERIALS / WASTE MANAGER 09 Federal Large Quantity Generator Not reported 2019 Not reported Handler Activities Not reported Not reported MEYER DR MARCH ARB, CA 92518 US AIR FORCE Federal **BRIG. GEN MELISSA COBURN** Federal No Not reported Not reported Not reported The land is federally-owned, The site is federally-owned, The site is federally-operated Ν Not reported No Not reported Not on the Baseline Not on the Baseline Not reported Not reported Not reported Not reported Not reported No No No No

Database(s)

EDR ID Number EPA ID Number

1000169261

MARCH AIR FORCE BASE (Continued)

TSDFs Potentially Subject to CA Under TSDFs Only Subject to CA under Disc Corrective Action Priority Ranking: Environmental Control Indicator: Institutional Control Indicator: Human Exposure Controls Indicator: Groundwater Controls Indicator: Operating TSDF Universe: Full Enforcement Universe: Significant Non-Complier Universe: Unaddressed Significant Non-Complier Addressed Significant Non-Complier Significant Non-Complier With a Comp Financial Assurance Required: Handler Date of Last Change: Recognized Trader-Importer: Recognized Trader-Exporter: Importer of Spent Lead Acid Batteries Exporter of Spent Lead Acid Batteries Recycler Activity Without Storage: Manifest Broker: Sub-Part P Indicator:	er Universe: Universe: Universe: pliance Schedule Universe:	No No No NCAPS ranking No No N/A N/A Not reported No No No No No No No No No No No No No
Biennial: List of Years Year:	2019	
Click Here for Biennial Reporting Syst Year:	tem Data: 2015	
Click Here for Biennial Reporting Syst Year:	tem Data: 2013	
Click Here for Biennial Reporting Syst Year:	tem Data: 2011	
Click Here for Biennial Reporting Syst Year:	tem Data: 2009	
Click Here for Biennial Reporting Syst Year:	tem Data: 2007	
Click Here for Biennial Reporting Syst Year:	tem Data: 2005	
Click Here for Biennial Reporting Syst Year:	tem Data: 2003	
Click Here for Biennial Reporting Syst Year:	tem Data: 2001	
Click Here for Biennial Reporting Syst	tem Data:	
	D001 IGNITABLE WASTE	

Database(s)

EDR ID Number EPA ID Number

RCH AIR FORCE BASE (Cor	ntinued) 1000169261
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D021
Waste Description:	CHLOROBENZENE
Waste Code:	D035
Waste Description:	METHYL ETHYL KETONE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE
Waste Code:	D040
Waste Description:	TRICHLORETHYLENE
Waste Code:	F001
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:
	TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED
	FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING
	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 F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE
	SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
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,

1000169261

ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2,

EDR ID Number Database(s) EPA ID Number

MARCH AIR FORCE BASE (Continued)	1000169261
	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.
	F003 THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
	F005 THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	
	POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
Waste Code: Waste Description:	U188 PHENOL
Waste Code: Waste Description:	U227 1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-
Handler - Owner Operator: Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:	Owner US AIR FORCE Federal 19450101 Not reported 2145 GRAEBER MARCH ARB, CA 92518 951-655-4665 Not reported Not reported Not reported Not reported
Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone:	Operator MULTIPLE OPS - ALL USAF COMMANDS Federal Not reported Not reported 22 CSG/CC CITY NOT REPORTED, CA 99999 714-655-4735

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Not reported Not reported Not reported

Operator COL. RUSSELL A MUNCY Federal 20131101 Not reported Not reported

Owner UNITED STATES AIR FORCE Private 19180101 Not reported 2145 GRAEBER STREET, ST 117 MARCH AIR RESERVE BASE, CA 92518 Not reported Not reported Not reported Not reported

Operator COLONEL JAMES T. RUBEOR Federal 20030719 Not reported Not reported

Operator GENERAL JAMES L. MELIN Private 20060723 Not reported Not reported

Owner USAF RESERVE COMMAND Federal 19180101 Not reported

Database(s)

EDR ID Number EPA ID Number

1000169261

MARCH AIR FORCE BASE (Continued)

Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: 2145 GRABER STREET SUITE 117 MARCH ARB, CA 92518-2166 951-655-4520 Not reported Not reported Not reported

Operator BRIG. GEN MELISSA COBURN Federal 20190101 Not reported 2145 GRAEBER ST., STE 117 MARCH AIR RESERVE BASE, CA 92518 951-655-4520 Not reported Not reported MELISSA.COBURN@US.AF.MIL

Operator GEN. RUSSELL A. MUNCY Federal 20131101 Not reported Not reported

Operator GENERAL JAMES T. RUBEOR Federal 20030719 Not reported Not reported

Operator COL MARY ARB Federal 20100101 Not reported 2145 GRABER STREET SUITE 117 MARCH ARB, CA 92518-2166 Not reported Not reported Not reported Not reported Not reported

Owner US AIR FORCE

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email: Federal 19470101 Not reported 2145 GRAEBER ST, BLDG 470 MARCH ARB, CA 92518 951-655-4665 Not reported Not reported Not reported

Owner US AIR FORCE Federal 19450101 Not reported 2145 GRAEBER MARCH ARB, CA 92518 951-655-4665 Not reported Not reported Not reported

Owner USAF RESERVE COMMAND Federal 20060723 Not reported 2145 GRAEBER STREET, ST 117 MARCH AIR RESERVE BASE, CA 92518 951-655-4520 Not reported Not reported Not reported

Operator GENERAL JAMES L. MELIN Federal 20060723 Not reported Not reported CA 92518 Not reported Not reported Not reported Not reported Not reported Not reported

Owner USAF Federal Not reported 452 SPTG CEV MARCH ARB, CA 92518-2166 909-655-5069 Not reported Not reported Not reported

Database(s)

EDR ID Number **EPA ID Number**

MARCH AIR FORCE BASE (Continued)

1000169261 **Owner/Operator Indicator:** Owner US AIR FORCE Owner/Operator Name: Legal Status: Federal Date Became Current: 19180101 Date Ended Current: Not reported 2145 GRAEBER ST., SUITE 117 Owner/Operator Address: Owner/Operator City,State,Zip: MARCH AIR RESERVE BASE, CA 92518-1667 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: UNITED STATES AIR FORCE Legal Status: Federal Date Became Current: 19180101 Date Ended Current: Not reported 2145 GRAEBER STREET, SUITE 117 Owner/Operator Address: Owner/Operator City,State,Zip: MARCH AIR RESERVE BASE, CA 92518 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: 20100715 MARCH AIR RESERVE BASE Handler Name: 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: 20130320 Handler Name: MARCH AIR RESERVE BASE 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: 20141022 MARCH AIR RESERVE BASE Handler Name: Federal Waste Generator Description: Large Quantity Generator State District Owner: Not reported Large Quantity Handler of Universal Waste: Yes Recognized Trader Importer: No

Database(s)

EDR ID Number EPA ID Number

MARCH	AIR	FORCE BASE	(Continued)
	~	I ONOL DAOL	(Continueu)

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
3 1 1	•
Electronic Manifest Broker:	Not reported
Receive Date:	20160229
Handler Name: MARCH AIR RESERVE BASE	
Federal Waste Generator Description:	Large Quantity Generator
•	a ,
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
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
o i i	
Electronic Manifest Broker:	Not reported
Receive Date:	20200708
Handler Name: MARCH AIR RESERVE BASE	
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:	No
Electronic Manifest Broker:	Νο
Receive Date:	19960901
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:	
Electronic Maniest Broker.	Not reported
	•
Receive Date:	
	20000714
Handler Name: MARCH AIR RESERVE BASE	20000714
	20000714
Federal Waste Generator Description:	20000714 Large Quantity Generator
Federal Waste Generator Description: State District Owner:	20000714 Large Quantity Generator Not reported
Federal Waste Generator Description: State District Owner: Large Quantity Handler of Universal Waste:	20000714 Large Quantity Generator Not reported No
Federal Waste Generator Description: State District Owner: Large Quantity Handler of Universal Waste: Recognized Trader Importer:	20000714 Large Quantity Generator Not reported No No
Federal Waste Generator Description: State District Owner: Large Quantity Handler of Universal Waste:	20000714 Large Quantity Generator Not reported No
Federal Waste Generator Description: State District Owner: Large Quantity Handler of Universal Waste: Recognized Trader Importer: Recognized Trader Exporter:	20000714 Large Quantity Generator Not reported No No
Federal Waste Generator Description: State District Owner: Large Quantity Handler of Universal Waste: Recognized Trader Importer: Recognized Trader Exporter: Spent Lead Acid Battery Importer:	20000714 Large Quantity Generator Not reported No No No No
Federal Waste Generator Description: State District Owner: Large Quantity Handler of Universal Waste: Recognized Trader Importer: Recognized Trader Exporter: Spent Lead Acid Battery Importer: Spent Lead Acid Battery Exporter:	20000714 Large Quantity Generator Not reported No No No No No
Federal Waste Generator Description: State District Owner: Large Quantity Handler of Universal Waste: Recognized Trader Importer: Recognized Trader Exporter: Spent Lead Acid Battery Importer: Spent Lead Acid Battery Exporter: Current Record:	20000714 Large Quantity Generator Not reported No No No No No No
Federal Waste Generator Description: State District Owner: Large Quantity Handler of Universal Waste: Recognized Trader Importer: Recognized Trader Exporter: Spent Lead Acid Battery Importer: Spent Lead Acid Battery Exporter:	20000714 Large Quantity Generator Not reported No No No No No

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)	
Electronic Manifest Broker:	Not reported
Receive Date:	19920330
Handler Name: MARCH AIR FORCE BASE	
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:	19940331
Handler Name: MARCH AIR FORCE BASE, (CA
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:	19960326
Handler Name: MARCH AFB, CA	
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: Spent Lead Acid Battery Exporter:	No No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19990304
Handler Name: MARCH ARB, CA	
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: MARCH ARB CA	
Federal Waste Generator Description:	Large Quantity Generator

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)	1000169261
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
	Notrepoited
Receive Date:	20020410
Handler Name: MARCH AIR RESERVE BAS	E
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
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:	20040225
Handler Name: MARCH AIR RESERVE BAS	E
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
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:	20060208
Handler Name: MARCH AIR RESERVE BAS	
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:	20080326
Handler Name: MARCH AIR RESERVE BAS	
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

Database(s)

EDR ID Number EPA ID Number

1000169261

MARCH AIR FORCE BASE (Continued))	
Spont Load Asid Pottory Exportor		No
Spent Lead Acid Battery Exporter:		No
Current Record:		
Non Storage Recycler Activity: Electronic Manifest Broker:		Not reported
Electronic Manifest Broker:		Not reported
List of NAICS Codes and Descriptions:		
NAICS Code:	92811	
NAICS Description:	NATIONAL SECU	RITY
NAICS Code:	92812	
NAICS Description:	INTERNATIONAL	AFFAIRS
Facility Has Received Notices of Violati	ion:	
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 Num		NI / / I
Consent/Final Order Respondent Na	ame:	Not reported
Consent/Final Order Lead Agency:	Not non onto d	Not reported
Enforcement Type:	Not reported	Net new entered
Enforcement Responsible Person:		Not reported
Enforcement Responsible Sub-Orga		Not reported
SEP Sequence Number: SEP Expenditure Amount:	Not reported	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	:	EPA
Violation Short Description:		Generators - General
Date Violation was Determined:		19950427
Actual Daturn to Compliance Dates		20000427

Actual Return to Compliance Date:

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

	/	
Return to Compliance Qualifier:		Not Resolved
Violation Responsible Agency:		EPA
Scheduled Compliance Date:		Not reported
Enforcement Identifier:		002
Date of Enforcement Action:		19950428
Enforcement Responsible Agency:		EPA
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:	- h - a NI- (and a start	Not reported
Consent/Final Order Sequence Num		Not non-out-oil
Consent/Final Order Respondent Na	ame:	Not reported
Consent/Final Order Lead Agency:		Not reported
Enforcement Type:	WRITTEN INFOR	R9STA
Enforcement Responsible Person: Enforcement Responsible Sub-Orga	nization:	Not reported
SEP Sequence Number:	Not reported	Not reported
SEP Expenditure Amount:	Not reported	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	:	EPA
Violation Short Description:		Generators - General
Date Violation was Determined:		19840305
Actual Return to Compliance Date:		19950404
Return to Compliance Qualifier:		Unverifiable
Violation Responsible Agency:		EPA
Scheduled Compliance Date:		Not reported
Enforcement Identifier:		001
Date of Enforcement Action:		19840518
Enforcement Responsible Agency:		EPA National anti-
Enforcement Docket Number:		Not reported
Enforcement Attorney:		Not reported No
Corrective Action Component:		
Appeal Initiated Date: Appeal Resolution Date:		Not reported Not reported
Disposition Status Date:		Not reported
Disposition Status:		Not reported
Disposition Status Description:		
Consent/Final Order Sequence Nur		
	ber:Not reported	Not reported
		Not reported
Consent/Final Order Respondent Na		Not reported
Consent/Final Order Respondent Na Consent/Final Order Lead Agency:		Not reported Not reported Not reported
Consent/Final Order Respondent Na	ame:	Not reported Not reported Not reported

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Enforcement Responsible Sub-Organization: SEP Sequence Number: Not reported	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
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
valuation Action Summary:	
Evaluation Date:	20061102

Evaluation Action Summary: Evaluation Date: Evaluation Responsible Agency: Found Violation: Evaluation Type Description:

20061102 State No COMPLIANCE EVALUATION INSPECTION ON-SITE

Database(s)

EDR ID Number EPA ID Number

1000169261

MARCH AIR FORCE BASE (Continued)	10001
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:	19950404
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20000427
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:	19840305
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19950404
Scheduled Compliance Date:	Not reported
Date of Request: Date Response Received:	Not reported
Request Agency:	Not reported Not reported
Former Citation:	Not reported
Evaluation Date:	19960506
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request: Date Response Received:	Not reported Not reported
Request Agency:	Not reported
Former Citation:	Not reported
	Notrepolica

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

SIte: Name: Address: Address 2: City,State,Zip: Event Code: Action Taken Date: EPA ID: Action Name: Action ID: Operable Unit: Contaminated Media: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude: Media: EPA ID: Contaminated Media: Action ID: **Operable Unit:** Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude: EPA ID:

Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude: MARCH AIR FORCE BASE 22 CSG/CC Not reported RIVERSIDE, CA 92518 Not reported 08/01/2017 CA4570024527 **ROD** Amendment 1 01 Soil Not reported Not reported Not reported Υ 2017 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Not reported 7 02 Record of Decision 04/01/2004 Not reported Not reported Not reported Not reported 2004 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Soil 1 01 **Explanation of Significant Differences** 08/24/2000 Not reported Not reported Not reported Not reported γ 2000 Currently on the Final NPL N 33.906389 -117.255700

Database(s)

EDR ID Number EPA ID Number

1000169261

MARCH AIR FORCE BASE (Continued)

EPA ID: Contaminated Media: Soil Action ID: 1 Operable Unit: 01 Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Υ Fiscal Year: NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: EPA ID: Contaminated Media: Soil Action ID: 1 Operable Unit: 01 Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Υ Fiscal Year: NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: EPA ID: Contaminated Media: Soil Action ID: 1 **Operable Unit:** 01 Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Υ Fiscal Year: NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: EPA ID: Contaminated Media: Soil Action ID: 1 **Operable Unit:** 01 Action Name:

Action Taken Date:

CA4570024527 **ROD** Amendment 08/01/2017 Not reported Not reported Not reported Not reported 2017 Currently on the Final NPL 33.906389 -117.255700 CA4570024527 **ROD** Amendment 08/01/2017 Not reported Not reported Not reported Not reported 2017 Currently on the Final NPL 33.906389 -117.255700 CA4570024527 **ROD** Amendment 08/01/2017 Not reported Not reported Not reported Not reported 2017 Currently on the Final NPL 33.906389 -117.255700 CA4570024527 **ROD** Amendment 08/01/2017

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Fiscal Year:

Event Code: Not reported Not reported Contact Name: Contact Telephone: Not reported Event: Not reported Federal Facility: Υ Fiscal Year: 2017 NPL Status: Currently on the Final NPL Superfund Alternative Agreement: N Latitude: 33.906389 Longitude: -117.255700 EPA ID: CA4570024527 Contaminated Media: Soil Action ID: 1 **Operable Unit:** 01 **ROD** Amendment Action Name: Action Taken Date: 08/01/2017 Event Code: Not reported Contact Name: Not reported Contact Telephone: Not reported Event: Not reported Federal Facility: Y Fiscal Year: 2017 NPL Status: Currently on the Final NPL Superfund Alternative Agreement: Ν 33.906389 Latitude: Longitude: -117.255700 EPA ID: CA4570024527 Contaminated Media: Soil Action ID: 1 **Operable Unit:** 01 Action Name: **ROD** Amendment Action Taken Date: 08/01/2017 Not reported Event Code: Not reported Contact Name: Contact Telephone: Not reported Event: Not reported Federal Facility: Υ Fiscal Year: 2017 NPL Status: Currently on the Final NPL Superfund Alternative Agreement: Ν Latitude: 33.906389 -117.255700 Longitude: EPA ID: CA4570024527 Contaminated Media: Groundwater Action ID: 5 **Operable Unit:** 02 Action Name: Record of Decision Action Taken Date: 09/30/2005 Event Code: Not reported Not reported Contact Name: Contact Telephone: Not reported Event: Not reported Federal Facility: Y

2005

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: **Operable Unit:** Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Soil 5 02 Record of Decision 09/30/2005 Not reported Not reported Not reported Not reported γ 2005 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Soil Gas 1 01 **ROD** Amendment 08/01/2017 Not reported Not reported Not reported Not reported 2017 Currently on the Final NPL N 33.906389 -117.255700 CA4570024527 Soil 3 02 **ROD** Amendment 12/12/2016 Not reported Not reported Not reported Not reported 2017 Currently on the Final NPL Ν

EPA ID:

CA4570024527

33.906389

-117.255700

Database(s)

EDR ID Number EPA ID Number

1000169261

MARCH AIR FORCE BASE (Continued)

Contaminated Media: Action ID: 1 Operable Unit: 01 Action Name: Action Taken Date: 06/20/1996 Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Y Fiscal Year: 1996 NPL Status: Superfund Alternative Agreement: Ν Latitude: 33.906389 Longitude: EPA ID: Contaminated Media: Soil Action ID: 1 01 Operable Unit: Action Name: 06/20/1996 Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Y Fiscal Year: 1996 NPL Status: Superfund Alternative Agreement: Ν Latitude: 33.906389 Longitude: EPA ID: Contaminated Media: Action ID: 1 **Operable Unit:** 01 Action Name: Action Taken Date: 06/20/1996 Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Υ Fiscal Year: 1996 NPL Status: Superfund Alternative Agreement: Ν Latitude: 33.906389 Longitude: EPA ID: Contaminated Media: Soil Action ID: 1 Operable Unit: 01 Action Name:

Action Taken Date:

Event Code:

Groundwater Record of Decision Not reported Not reported Not reported Not reported Currently on the Final NPL -117.255700 CA4570024527 Record of Decision Not reported Not reported Not reported Not reported Currently on the Final NPL -117.255700 CA4570024527 Groundwater Record of Decision Not reported Not reported Not reported Not reported Currently on the Final NPL -117.255700 CA4570024527 Record of Decision 06/20/1996

Not reported

Database(s)

EDR ID Number **EPA ID Number**

MARCH AIR FORCE BASE (Continued)

Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude: EPA ID: Contaminated Media: Action ID: **Operable Unit:** Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status:

Not reported Not reported Not reported Y 1996 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Groundwater 1 01 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported Υ 1996 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Soil 1 01 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported Y 1996 Currently on the Final NPL N 33.906389 -117.255700 CA4570024527 Free-phase NAPL 1 01 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported Υ

1996

Currently on the Final NPL

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude: EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement:

EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media:

Latitude: Longitude: Ν 33.906389 -117.255700 CA4570024527 Groundwater 1 01 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported 1996 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Groundwater 1 01 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported γ 1996 Currently on the Final NPL N 33.906389 -117.255700 CA4570024527 Groundwater 1 01 Record of Decision 06/20/1996 Not reported Not reported Not reported

Not reported

-117.255700

CA4570024527

Currently on the Final NPL

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Soil

1996

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Action ID: Operable Unit: 01 Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Υ Fiscal Year: 1996 NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: EPA ID: Contaminated Media: Soil Action ID: 1 Operable Unit: 01 Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Y Fiscal Year: 1996 NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: EPA ID: Contaminated Media: Action ID: Operable Unit: 01 Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Y Fiscal Year: 1996 NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: EPA ID: Contaminated Media:

Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name:

1 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported Currently on the Final NPL 33.906389 -117.255700 CA4570024527 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported Currently on the Final NPL 33.906389 -117.255700 CA4570024527 Free-phase NAPL Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported Currently on the Final NPL 33.906389 -117.255700 CA4570024527 Groundwater

Groundwater 1 01 Record of Decision 06/20/1996 Not reported Not reported

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: **Operable Unit:** Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

EPA ID: Contaminated Media: Action ID: Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Not reported Not reported Υ 1996 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Soil 1 01 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported Υ 1996 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Soil 3 04 Record of Decision 09/29/2005 Not reported Not reported Not reported Not reported Y 2005 Currently on the Final NPL Ν 33.906389 -117.255700 CA4570024527 Groundwater 3 04 Record of Decision 09/29/2005 Not reported Not reported Not reported Not reported

2005

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Database(s)

EDR ID Number **EPA ID Number**

MARCH AIR FORCE BASE (Continued)

Latitude: Longitude: EPA ID: Contaminated Media: Action ID: 3 Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: EPA ID: Contaminated Media: Action ID: 1 Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Υ Fiscal Year: NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: EPA ID: Contaminated Media: Action ID: 1 Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Y Fiscal Year: NPL Status: Superfund Alternative Agreement: Ν Latitude: Longitude: -117.255700 EPA ID:

Contaminated Media: Action ID:

-117.255700 CA4570024527 Soil 04 Record of Decision 09/29/2005 Not reported Not reported Not reported Not reported 2005 Currently on the Final NPL 33.906389 -117.255700 CA4570024527 Free-phase NAPL 01 Record of Decision

06/20/1996 Not reported Not reported Not reported Not reported 1996 Currently on the Final NPL 33.906389 -117.255700 CA4570024527 Soil 01 Record of Decision 06/20/1996 Not reported Not reported Not reported Not reported 1996 Currently on the Final NPL 33.906389

CA4570024527 Soil 1

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Operable Unit: Action Name: Action Taken Date: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude: 01 Record of Decision 06/20/1996 Not reported Not reported Not reported Y 1996 Currently on the Final NPL N 33.906389 -117.255700

Name: Address: Address 2: City,State,Zip: EPA ID: Action Name: Action ID: Operable Unit: Actual Date: Contaminated Media: Event Code: Contact Name:

Longitude:

US INST CONTROLS:

Contaminated Media: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude:

Name: Address: Address 2: City,State,Zip: EPA ID: Action Name: Action ID: Operable Unit: Actual Date: Contaminated Media: Event Code: Contact Name: Contact Telephone: Event: Federal Facility: Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

MARCH AIR FORCE BASE 22 CSG/CC Not reported RIVERSIDE, CA 92518 CA4570024527 **ROD** Amendment 1 01 08/01/2017 Soil Gas Not reported Not reported Not reported Not reported Y 2017 Currently on the Final NPL Ν 33.906389 -117.255700 MARCH AIR FORCE BASE 22 CSG/CC Not reported

RIVERSIDE, CA 92518 CA4570024527 Record of Decision 3 04 09/29/2005 Soil Not reported Not reported Not reported Not reported Υ 2005 Currently on the Final NPL Ν 33.906389 -117.255700

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Name: MARCH AIR FORCE BASE Address: 22 CSG/CC Address 2: Not reported City,State,Zip: RIVERSIDE, CA 92518 EPA ID: CA4570024527 Action Name: Record of Decision Action ID: 4 Operable Unit: 02 Actual Date: 05/11/2004 Contaminated Media: Groundwater Not reported Event Code: Not reported Contact Name: Contact Telephone: Not reported Event: Not reported Federal Facility: Fiscal Year: 2004 NPL Status: Currently on the Final NPL Superfund Alternative Agreement: Ν Latitude: 33.906389 -117.255700 Longitude: MARCH AIR FORCE BASE Name: Address: 22 CSG/CC Address 2: Not reported RIVERSIDE, CA 92518 City,State,Zip: EPA ID: CA4570024527 Action Name: Record of Decision Action ID: 4 **Operable Unit:** 02 Actual Date: 05/11/2004 Contaminated Media: Soil Event Code: Not reported Contact Name: Not reported Contact Telephone: Not reported Not reported Event: Federal Facility: Υ Fiscal Year: 2004 NPL Status: Currently on the Final NPL Superfund Alternative Agreement: Ν 33.906389 Latitude: Longitude: -117.255700 Name: MARCH AIR FORCE BASE Address: 22 CSG/CC Address 2: Not reported City,State,Zip: RIVERSIDE, CA 92518 EPA ID: CA4570024527 Action Name: Record of Decision Action ID: 5 Operable Unit: 02 09/30/2005 Actual Date: Contaminated Media: Soil Event Code: Not reported Contact Name: Not reported Contact Telephone: Not reported Not reported Event: Federal Facility: Υ

Currently on the Final NPL

2005

-117.255700

N 33.906389 Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Fiscal Year: NPL Status: Superfund Alternative Agreement: Latitude: Longitude:

ROD:

SEQ ID:

Name:

Address: City,State,Zip:

EPA ID:

Site ID:

Action:

SEQ ID:

NPL Status:

RG:

NPL Status:

Action Completion:

Operable Unit Number:

Action Completion:

4

Final

2004-05-11 00:00:00

Non NPL Status:

Name: MARCH AIR FORCE BASE Address: 22 CSG/CC City,State,Zip: RIVERSIDE, CA 92518 EPA ID: CA4570024527 RG: 9 Site ID: 902761 Action: Operable Unit Number: SEQ ID: Action Completion: NPL Status: Final Non NPL Status: Name: Address: City,State,Zip: EPA ID: RG: 9 Site ID: Action: Operable Unit Number: SEQ ID: 1 Action Completion: NPL Status: Final Non NPL Status: Name: Address: City,State,Zip: EPA ID: RG: 9 Site ID: Action: Operable Unit Number:

FF ESD EAST MARCH - SOILS/GW 2000-08-24 00:00:00 Not reported MARCH AIR FORCE BASE 22 CSG/CC RIVERSIDE, CA 92518 CA4570024527 902761 FF ROD (RCRA Statement of Basis/RTC) EAST MARCH - SOILS/GW 1996-06-20 00:00:00 Not reported MARCH AIR FORCE BASE 22 CSG/CC **RIVERSIDE, CA 92518** CA4570024527 902761 FF ROD (RCRA Statement of Basis/RTC) BASEWIDE 3 2005-09-29 00:00:00 Final Not reported MARCH AIR FORCE BASE 22 CSG/CC RIVERSIDE, CA 92518 CA4570024527 9 902761 FF ROD (RCRA Statement of Basis/RTC) WEST MARCH - SOILS/GW

1000169261

TC6783188.2s Page 44

Not reported

Database(s)

EDR ID Number EPA ID Number

MARCH AIR FORCE BASE (Continued)

Non NPL Status: Name: Address: City,State,Zip: EPA ID: RG: Site ID: Action:

Operable Unit Number:

SEQ ID:

Action Completion: NPL Status: Non NPL Status: Name: Address: City,State,Zip: EPA ID: RG: Site ID: Action: Operable Unit Number: SEQ ID: Action Completion: NPL Status: Non NPL Status:

Name: Address: City,State,Zip: EPA ID: RG: Site ID: Action: Operable Unit Number: SEQ ID: Action Completion: NPL Status: Non NPL Status:

Name: Address: City,State,Zip: EPA ID: RG: Site ID: Action: Operable Unit Number: SEQ ID: Action Completion: NPL Status: Non NPL Status:

Name: Address: City,State,Zip: MARCH AIR FORCE BASE 22 CSG/CC RIVERSIDE, CA 92518 CA4570024527 9 902761 FF ROD (RCRA Statement of Basis/RTC) WEST MARCH - SOILS/GW 5 2005-09-30 00:00:00 Final Not reported MARCH AIR FORCE BASE 22 CSG/CC **RIVERSIDE, CA 92518** CA4570024527 9 902761 FF ROD (RCRA Statement of Basis/RTC) SITEWIDE GW 6 2019-04-22 00:00:00 Final Not reported MARCH AIR FORCE BASE 22 CSG/CC RIVERSIDE, CA 92518 CA4570024527 9 902761 FF ROD (RCRA Statement of Basis/RTC) WEST MARCH - SOILS/GW 7 2004-04-01 00:00:00 Final Not reported

MARCH AIR FORCE BASE 22 CSG/CC RIVERSIDE, CA 92518 CA4570024527 9 902761 FF ROD Amendment EAST MARCH - SOILS/GW 1 2017-08-01 00:00:00 Final Not reported

MARCH AIR FORCE BASE 22 CSG/CC RIVERSIDE, CA 92518

A1

MARCH AIR FORCE BASE (Continued)

Operable Unit Number:

EPA ID:

Site ID:

Action:

RG:

MAP FINDINGS

CA4570024527

FF ROD Amendment

EAST MARCH - SOILS/GW

9

902761

Database(s)

AST

A100420256

N/A

EDR ID Number **EPA ID Number**

SEQ ID: 2 Action Completion: 2019-02-25 00:00:00 NPL Status: Final Non NPL Status: Not reported MARCH AIR FORCE BASE Name: Address: 22 CSG/CC RIVERSIDE, CA 92518 City,State,Zip: EPA ID: CA4570024527 RG: 9 Site ID: 902761 Action: FF ROD Amendment Operable Unit Number: WEST MARCH - SOILS/GW SEQ ID: 3 Action Completion: 2016-12-12 00:00:00 NPL Status: Final Non NPL Status: Not reported PRP: STATE OF CALIFORNIA/DEPT. OF HEALTH SERVICES PRP Name: STATE OF CALIFORNIA/DEPT. OF WATER QUALITY U.S. AIR FORCE U.S. AIR FORCE GARCIA JUAREZ CONSTRUCTION COMPANY wsw 4517 WADE AVE 1/8-1/4 **PERRIS, CA 92571** 0.175 mi. 926 ft. Site 1 of 6 in cluster A Relative: AST: Higher GARCIA JUAREZ CONSTRUCTION COMPANY Name: 4517 WADE AVE Address: Actual: City/Zip: PERRIS,92571 1510 ft. Certified Unified Program Agencies: Not reported Garcia Juarez Contruction Owner: **Total Gallons:** Not reported CERSID: 10325266 Facility ID: FA0026982 Business Name: Garcia Juarez Construction Company Phone: (951) 657-3535 Fax: 951-657-3955 Mailing Address: 4517 Wade Ave Mailing Address City: Perris Mailing Address State: CA Mailing Address Zip Code: 92571 **Operator Name:** Leon Lopez **Operator Phone:** 800-375-7272 **Owner Phone:** 800-375-7272 Owner Mail Address: 4517 Wade Ave Owner State: CA Owner Zip Code: 92571 United States Owner Country:

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Map ID Direction		MAP FINDINGS		
Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
	GARCIA JUAREZ CONSTRUCTION COMPA	NY (Continued)		A100420256
	Property Owner Phone:NotProperty Owner Mailing Address:NotProperty Owner City:NotProperty Owner Stat :NotProperty Owner Zip Code:NotProperty Owner Country:Not	reported reported reported reported reported reported reported		
A2 WSW 1/8-1/4 0.175 mi.	ONSITE KRUSHING CO. 4517 WADE AVENUE PERRIS, CA 92822		ABANDONED MINES	1022837986 N/A
926 ft.	Site 2 of 6 in cluster A			
Relative: Higher Actual: 1510 ft.	ABANDONED MINES: Mine ID: Mine Name: Mine Address: City,State,Zip: Primary SIC Code: Mine Type: Mine Status Description: Mine Status Date: Coal (C) or Metal (M) Mine: Controller ID: Controller Name: Operator ID: Operator name: Address of Record Street: Address of Record PO Box: Address of Record City: Address of Record Zip Code: Assessment Address Street: Assessment Address Street: Assessment Address Street: Assessment Address Street: Assessment Address Street: Assessment Address Street: Mine Health and Safety Address Street: Mine Health and Safety Address State: Mine Health and Safety Address Zip Code: Mine Health and Safety Address Zip Code: Address Zip Code: Mine Health Address Zip Code:	Brea CA		

Database(s)

EDR ID Number EPA ID Number

A3 WSW 1/8-1/4 0.175 mi. 926 ft.	GRFCO, INC. 4517 WADE AVE PERRIS, CA 92571 Site 3 of 6 in cluster A	CERS HAZ WASTE S123625840 CERS TANKS N/A HAZNET CERS HWTS
Relative:	CERS HAZ WASTE:	
Higher	Name:	GRFCO, INC.
Actual:	Address:	4517 WADE AVE
1510 ft.	City,State,Zip:	PERRIS, CA 92571
101010	Site ID:	118755
	CERS ID:	10325266
	CERS Description:	Hazardous Waste Generator
	CERS TANKS:	
	Name:	GRFCO, INC.
	Address:	4517 WADE AVE
	City,State,Zip:	PERRIS, CA 92571
	Site ID:	118755
	CERS ID:	10325266
	CERS Description:	Aboveground Petroleum Storage
	HAZNET:	
	Name:	GARCIA JUAREZ CONSTRUCTION
	Address:	4517 WADE AVE
	Address 2:	Not reported
	City,State,Zip:	PERRIS, CA 925717492
	Contact:	LEON LOPEZ
	Telephone:	9516573535
	Mailing Name:	Not reported
	Mailing Address:	PO BOX 309
	Year:	2011
	Gepaid:	CAL000326869
	TSD EPA ID:	CAD097030993
	CA Waste Code:	352 - Other organic solids
	Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off SiteNo
		Treatment/Reovery (H010-H129) Or (H131-H135)
	Tons:	0.125
	Year:	2009
	Gepaid:	CAL000326869
	TSD EPA ID:	CAT000646117
	CA Waste Code:	491 - Unspecified sludge waste
	Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
	Tons:	
	1010.	0.117
	Year:	2009
	Gepaid:	CAL000326869
	TSD EPA ID:	CAD982444481
	CA Waste Code:	352 - Other organic solids
	Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off SiteNo
		Treatment/Reovery (H010-H129) Or (H131-H135)
	Tons:	0.4
	Year:	2008
		2008 CAL000326869
	Gepaid:	

EDR ID Number Database(s) EPA ID Number

GRFCO, INC. (Continued) S123625840 TSD EPA ID: CAD982444481 CA Waste Code: 352 - Other organic solids H141 - Storage, Bulking, And/Or Transfer Off Site--No **Disposal Method:** Treatment/Reovery (H010-H129) Or (H131-H135) Tons: 2.4 Additional Info: Year: 2008 Gen EPA ID: CAL000326869 Shipment Date: 20081222 Creation Date: 2/17/2009 18:30:19 Receipt Date: 20081222 Manifest ID: 005069727JJK Trans EPA ID: CAR000130864 Trans Name: ALEXIS ENVIROMENTAL COMPANY INC Trans 2 EPA ID: Not reported Trans 2 Name: Not reported TSDF EPA ID: CAD982444481 FILTER RECYCLING Trans Name: TSDF Alt EPA ID: Not reported **TSDF Alt Name:** Not reported 352 - Other organic solids Waste Code Description: RCRA Code: Not reported Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) Quantity Tons: 0.4 Waste Quantity: 800 Quantity Unit: Ρ Additional Code 1: Not reported Additional Code 2: Not reported Additional Code 3: Not reported Additional Code 4: Not reported Additional Code 5: Not reported Shipment Date: 20081015 Creation Date: 12/11/2008 18:30:30 Receipt Date: 20081020 Manifest ID: 005069601JJK Trans EPA ID: CAR000130864 Trans Name: ALEXIS ENVIROMENTAL COMPANY INC Trans 2 EPA ID: Not reported Trans 2 Name: Not reported TSDF EPA ID: CAD982444481 FILTER RECYCLING Trans Name: TSDF Alt EPA ID: Not reported TSDF Alt Name: Not reported 352 - Other organic solids Waste Code Description: RCRA Code: Not reported Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) Quantity Tons: 0.4 Waste Quantity: 800 Quantity Unit: Ρ Additional Code 1: Not reported Additional Code 2: Not reported

Database(s)

EDR ID Number EPA ID Number

S123625840

GRFCO, INC. (Continued) Additional Code 3:

Additional Code 4: Additional Code 5: Shipment Date: Creation Date: Receipt Date: Manifest ID: Trans EPA ID: Trans Name: Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID: Trans Name: TSDF Alt EPA ID: **TSDF Alt Name:** Waste Code Description: RCRA Code: Meth Code: Quantity Tons: Waste Quantity: Quantity Unit: Additional Code 1: Additional Code 2: Additional Code 3: Additional Code 4: Additional Code 5: Shipment Date: Creation Date: Receipt Date: Manifest ID: Trans EPA ID: Trans Name: Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID: Trans Name: TSDF Alt EPA ID: TSDF Alt Name: Waste Code Description: RCRA Code: Meth Code: Quantity Tons: Waste Quantity: Quantity Unit: Additional Code 1: Additional Code 2: Additional Code 3: Additional Code 4: Additional Code 5: Shipment Date: Creation Date:

Receipt Date:

Not reported Not reported Not reported 20080922 11/14/2008 18:30:18 20080922 005069547JJK CAR000130864 ALEXIS ENVIROMENTAL COMPANY INC Not reported Not reported CAD982444481 FILTER RECYCLING Not reported Not reported 352 - Other organic solids Not reported H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.4 800 Ρ Not reported Not reported Not reported Not reported Not reported 20080805 10/1/2008 18:30:31 20080806 002575271JJK CAR000130864 ALEXIS ENVIROMENTAL COMPANY INC Not reported Not reported CAD982444481 FILTER RECYCLING Not reported Not reported 352 - Other organic solids Not reported H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.4 800 Ρ Not reported Not reported Not reported Not reported Not reported 20080512 8/4/2008 18:30:22 20080512

Map ID Direction Distance Elevation

Site

MAP FINDINGS

Database(s) EP

EDR ID Number EPA ID Number

S123625840

GRFCO, INC. (Continued)

Manifest ID: Trans EPA ID: Trans Name: Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID: Trans Name: TSDF Alt EPA ID: TSDF Alt Name: Waste Code Description: RCRA Code: Meth Code: Quantity Tons: Waste Quantity: Quantity Unit: Additional Code 1: Additional Code 2: Additional Code 3: Additional Code 4: Additional Code 5: Shipment Date: Creation Date: Receipt Date: Manifest ID: Trans EPA ID: Trans Name: Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID: Trans Name: TSDF Alt EPA ID: **TSDF Alt Name:** Waste Code Description: RCRA Code: Meth Code: Quantity Tons: Waste Quantity: Quantity Unit: Additional Code 1: Additional Code 2: Additional Code 3: Additional Code 4: Additional Code 5: Additional Info: Year: Gen EPA ID: Shipment Date: Creation Date: Receipt Date: Manifest ID: Trans EPA ID: Trans Name:

002575134JJK CAR000130864 ALEXIS ENVIROMENTAL COMPANY INC Not reported Not reported CAD982444481 FILTER RECYCLING Not reported Not reported 352 - Other organic solids Not reported H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.4 800 Ρ Not reported Not reported Not reported Not reported Not reported 20080409 6/9/2008 18:30:18 20080414 002575054JJK CAR000130864 ALEXIS ENVIROMENTAL COMPANY INC Not reported Not reported CAD982444481 FILTER RECYCLING Not reported Not reported 352 - Other organic solids Not reported H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.4 800 Ρ Not reported Not reported Not reported Not reported Not reported 2009 CAL000326869 20090909 10/20/2009 18:30:23 20090916 006018601JJK CAD982413262 EVERGREEN ENVIRONMENTAL SERVICES

Database(s) EPA ID I

EDR ID Number EPA ID Number

S123625840

GRFCO, INC. (Continued)

Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID: Trans Name: TSDF Alt EPA ID: **TSDF Alt Name:** Waste Code Description: RCRA Code: Meth Code: Quantity Tons: Waste Quantity: Quantity Unit: Additional Code 1: Additional Code 2: Additional Code 3: Additional Code 4: Additional Code 5: Shipment Date: Creation Date: Receipt Date: Manifest ID: Trans EPA ID: Trans Name: Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID: Trans Name: TSDF Alt EPA ID: TSDF Alt Name: Waste Code Description: RCRA Code: Meth Code: Quantity Tons: Waste Quantity: Quantity Unit: Additional Code 1: Additional Code 2: Additional Code 3: Additional Code 4: Additional Code 5: Additional Info: Year: Gen EPA ID: Shipment Date: Creation Date: Receipt Date: Manifest ID: Trans EPA ID: Trans Name: Trans 2 EPA ID: Trans 2 Name: TSDF EPA ID:

Not reported Not reported CAT000646117 CHEMICAL WASTE MANAGEMENT Not reported Not reported 491 - Unspecified sludge waste Not reported H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization) 0.417 100 G Not reported Not reported Not reported Not reported Not reported 20090225 4/8/2009 18:31:28 20090225 005069849JJK CAR000130864 ALEXIS ENVIROMENTAL COMPANY INC Not reported Not reported CAD982444481 FILTER RECYCLING Not reported Not reported 352 - Other organic solids Not reported H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) 0.4 800 Ρ Not reported Not reported Not reported Not reported Not reported 2011 CAL000326869 20110718 10/1/2011 18:30:25 20110720 008372665JJK CAD982413262 EVERGREEN ENVIRONMENTAL SERVICES Not reported Not reported CAD097030993

Map ID Direction Distance Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

S123625840

GRFCO, INC. (Continued)

Trans Name: SIEMENS WATER TECHNOLOGIES TSDF Alt EPA ID: Not reported Not reported TSDF Alt Name: 352 - Other organic solids Waste Code Description: RCRA Code: Not reported Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) Quantity Tons: 0.125 Waste Quantity: 250 Quantity Unit: Р Additional Code 1: Not reported Additional Code 2: Not reported Additional Code 3: Not reported Additional Code 4: Not reported Additional Code 5: Not reported CERS: GRFCO, INC. Name: Address: 4517 WADE AVE City,State,Zip: **PERRIS, CA 92571** Site ID: 118755 CERS ID: 10325266 **CERS** Description: **Chemical Storage Facilities** Violations: Site ID: 118755 Site Name: GRFCO, Inc. Violation Date: 01-12-2017 Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) Failure to complete and electronically submit a site map with all Violation Description: required content. Violation Notes: Returned to compliance on 09/11/2017. Violation Division: Riverside County Department of Env Health Violation Program: HMRRP Violation Source: CERS Site ID: 118755 GRFCO, Inc. Site Name: Violation Date: 07-30-2020 Citation: 22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31 Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. Violation Notes: Returned to compliance on 11/05/2020. Violation Division: Riverside County Department of Env Health Violation Program: HW Violation Source: CERS Site ID: 118755 Site Name: GRFCO, Inc. Violation Date: 07-30-2020 22 CCR 15 66265.174 - California Code of Regulations. Title 22. Citation:

EDR ID Number Database(s) EPA ID Number

GRFCO, INC. (Continued)

3F	RFCO, INC. (Continued)	S12362
	Violation Description:	Failure to inspect weekly, areas where hazardous waste containers are stored or transferred. The owner or operator shall look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors.
	Violation Notes:	Returned to compliance on 11/05/2020.
	Violation Division:	Riverside County Department of Env Health
	Violation Program:	HW
	Violation Source:	CERS
	Site ID:	118755
	Site Name:	GRFCO, Inc.
	Violation Date:	01-12-2017
	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 09/11/2017.
	Violation Division:	Riverside County Department of Env Health
	Violation Program:	HMRRP
	Violation Source:	CERS
	Site ID:	118755
	Site Name:	GRFCO, Inc.
	Violation Date:	07-30-2020
	Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22,
	Violation Description:	Chapter 12, Section(s) 66262.34(f) Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
	Violation Notes:	Returned to compliance on 11/05/2020.
	Violation Division:	Riverside County Department of Env Health
	Violation Program:	HW
	Violation Source:	CERS
	Site ID:	118755
	Site Name:	GRFCO, Inc.
	Violation Date:	01-12-2017
	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 a business plan when storing/handling a hazardous material at or above reportable quantities.
	Violation Notes:	Returned to compliance on 09/11/2017.
	Violation Division:	Riverside County Department of Env Health
	Violation Program:	HMRRP
	Violation Source:	CERS
	Site ID:	118755
	Site Name:	GRFCO, Inc.
	Violation Date:	07-30-2020
	Citation:	Un-Specified
	Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
	Violation Notes:	Returned to compliance on 11/05/2020. OBSERVATION: Owner/ operator

EDR ID Number Database(s) EPA ID Number

GRFCO, INC. (Continued)	S1236
	failed to maintain Safety Data Sheets for each hazardous material stored on site. CORRECTIVE ACTION: Owner/operator shall have Safety Data Sheets as defined in Title 8 CCR, readily accessible or maintained on site for each hazardous material stored/handled at the facility.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	08-09-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 08/21/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-21-2016
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 11/05/2020.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date: Citation:	07-30-2020
Citation.	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and
	certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including
	the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	Not reported
Violation Division:	Riverside County Department of Env Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-21-2016

EDR ID Number Database(s) EPA ID Number

GRFCO, INC. (Continued)

FCO, INC. (Continued	l) S12362
Citation:	Un-Specified
Violation Description:	
Violation Notes:	Returned to compliance on 11/05/2020. Compressed gas storage area was observed without proper postings.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-21-2016 10 CCD 6 05 25509(c)(4) California Cada of Degulations Title 10
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities
Malatian Natara	Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 09/11/2017.
Violation Division: Violation Program:	Riverside County Department of Env Health HMRRP
Violation Source:	CERS
violation Source.	GENS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	01-12-2017
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19,
Violation Description	Chapter 6.95, Section(s) 25508(a)(1) Failure to complete and electronically submit the Business Activities
Violation Description:	Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 09/11/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	01-12-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	
	program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 09/11/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-30-2020
Citation:	22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description:	Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted
	for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes:	Returned to compliance on 11/05/2020.

EDR ID Number Database(s) EPA ID Number

GRFCO, INC. (Continued)

CO, INC. (Continued)		514
Violation Division:	Riverside County Department of Env Health	
Violation Program:	HW	
Violation Source:	CERS	
Site ID:	118755	
Site Name:	GRFCO, Inc.	
Violation Date:	07-21-2016	
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95,	,
	Section(s) 25507	
Violation Description:	Failure to adequately establish and implement a business plan when	n
	storing/handling a hazardous material at or above reportable	
	quantities.	
Violation Notes:	Returned to compliance on 09/11/2017.	
Violation Division:	Riverside County Department of Env Health	
Violation Program:	HMRRP	
Violation Source:	CERS	
Site ID:	118755	
Site Name:	GRFCO, Inc.	
Violation Date:	07-21-2016	
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter	
	6.95, Section(s) 25508(a)(1)	
Violation Description:	Failure to complete and electronically submit a business plan when	
	storing/handling a hazardous material at or above reportable	
	quantities.	
Violation Notes:	Returned to compliance on 09/11/2017.	
Violation Division:	Riverside County Department of Env Health	
Violation Program:	HMRRP	
Violation Source:	CERS	
Site ID:	118755	
Site Name:	GRFCO, Inc.	
Violation Date:	07-21-2016	
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 09/11/2017.	
Violation Division:	Riverside County Department of Env Health	
Violation Program:	HMRRP	
Violation Source:	CERS	
Site ID:	110755	
Site ID: Site Name:	118755 CRECO Inc	
Violation Date:	GRFCO, Inc. 01-12-2017	
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter	
	6.95, Section(s) 25508(a)(1)	
Violation Description:	Failure to establish and electronically submit an adequate emergence	cv
· · · · · · · · · · · · · · · · · · ·	response plan and procedures for a release or threatened release o	
	hazardous material.	
Violation Notes:	Returned to compliance on 09/11/2017.	
Violation Division:	Riverside County Department of Env Health	
Violation Program:	HMRRP	
Violation Source:	CERS	
Site ID:	118755	

EDR ID Number Database(s) EPA ID Number

GRFCO, INC. (Continued)

FCO, INC. (Continued)	S12362584
Site Name:	GRFCO, Inc.
Violation Date:	01-12-2017
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter
	6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in
Violation Decemption.	safety procedures in the event of a release or threatened release of a
	hazardous material or failure to document and maintain training
	records for a minimum of three years.
Violation Notes:	Returned to compliance on 11/05/2020.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Violation Gource.	OENO
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	01-12-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter
	6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the
	business plan is complete and accurate on or before the annual due
	date.
Violation Notes:	Returned to compliance on 09/11/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-21-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22,
	Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and
· · · · · · · · · · · · · · · · · · ·	portable tanks with the following requirements: "Hazardous Waste",
	name and address of the generator, physical and chemical
	characteristics of the Hazardous Waste, and starting accumulation
	date.
Violation Notes:	Returned to compliance on 07/21/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-30-2020
Citation:	Un-Specified
Violation Description:	Business Plan Program - Operations/Maintenance - General Local
	Ordinance
Violation Notes:	Returned to compliance on 11/05/2020. OBSERVATION: Required NFPA-704
	signs were not posted. CORRECTIVE ACTION: Owner/operator shall
	research chemical safety data sheets and post proper NFPA-704 signs.
	Signs shall be posted at both entrances to the faciility, and the
	Diesel tank area, and the compressed gases storage area. Submit photos
	to this department.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

EDR ID Number Database(s) EPA ID Number

GRFCO, INC. (Continued)

FCO, INC. (Continued)	S12362584
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-05-2017
Citation:	
Citation.	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the
	business plan is complete and accurate on or before the annual due
Violation Notes:	date. Returned to compliance on 09/11/2017.
Violation Division:	Riverside County Department of Env Health
	HMRRP
Violation Program:	
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-30-2020
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter
	6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in
·	safety procedures in the event of a release or threatened release of a
	hazardous material or failure to document and maintain training
	records for a minimum of three years.
Violation Notes:	Returned to compliance on 11/05/2020. OBSERVATION: No training records
violation riotes.	observed/provided during inspection. CORRECTIVE ACTION: Owner/operator
	shall provide training to all employees. Documentation shall be
	retained and be made available for inspection for a minimum period of
	3 years from the date of the training. Please provide the syllabus and
	the sign off, signed and dated by each employee who received the
	training.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-30-2020
Citation:	22 CCR 15 66265.195(c) - California Code of Regulations, Title 22,
Citation.	Chapter 15, Section(s) 66265.195(c)
Violation Description:	Failure to conduct and document inspections of hazardous waste tank
Violation Description.	systems each operating day and retain records of those inspections at
	the facility.
Violation Notes:	Returned to compliance on 11/05/2020.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	118755
Site Name:	GRFCO, Inc.
Violation Date:	07-21-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter
Chaton.	6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all
Violation Description:	
Violation Nato-	required content.
Violation Notes:	Returned to compliance on 09/11/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

Database(s)

EDR ID Number EPA ID Number

GRFCO, INC. (Continued)

S123625840

Evaluation: Eval General Type: Eval Date: Violations Found: Yes Eval Type: Eval Notes: Eval Division: Eval Program: Eval Source: CERS Eval General Type: Eval Date: Violations Found: No Eval Type: Eval Notes: Eval Division: Eval Program: APSA Eval Source: CERS Eval General Type: Eval Date: Violations Found: Yes Eval Type: **Eval Notes:** Eval Division: Eval Program: Eval Source: CERS Eval General Type: Eval Date: Violations Found: No Eval Type: Eval Notes: Eval Division: Eval Program: APSA Eval Source: CERS Eval General Type: Eval Date: Violations Found: No Eval Type: Eval Notes: Eval Division: Eval Program: Eval Source: CERS Eval General Type: Eval Date: Violations Found: Yes Eval Type: Eval Notes: Eval Division: Eval Program: Eval Source: Eval General Type: Eval Date:

Other/Unknown 01-12-2017 Other, not routine, done by local agency Not reported Riverside County Department of Env Health HMRRP **Compliance Evaluation Inspection** 07-21-2016 Routine done by local agency Not reported Riverside County Department of Env Health Compliance Evaluation Inspection 07-30-2020 Routine done by local agency Not reported Riverside County Department of Env Health HMRRP **Compliance Evaluation Inspection** 11-05-2020 Routine done by local agency Not reported Riverside County Department of Env Health Other/Unknown 11-05-2020

11-05-2020 No Other, not routine, done by local agency Not reported Riverside County Department of Env Health HMRRP CERS

Other/Unknown 07-05-2017 Yes Other, not routine, done by local agency Not reported Riverside County Department of Env Health HMRRP CERS

Other/Unknown 07-29-2013

Database(s)

EDR ID Number EPA ID Number

GRFCO, INC. (Continued) Violations Found:

Eval Type:

Eval Notes:

Eval Division:

Eval Program:

Eval General Type:

Violations Found:

Eval Source:

Eval Date:

Eval Type:

Eval Notes:

Eval Division: Eval Program:

Eval Source:

Eval Date:

Eval Type: Eval Notes:

Eval Division:

Eval Program:

Eval General Type:

Violations Found:

Eval Source:

Eval Date:

Eval Type:

Eval Notes:

Eval Division:

Eval Program:

Eval General Type:

Eval Source:

Eval Date: Violations Found:

Eval Type:

Eval Notes:

Eval Division:

Eval Program:

Eval General Type:

Eval Source:

Eval Date: Violations Found:

Eval Type:

Eval Notes:

Eval Division:

Eval Program:

Eval General Type:

Violations Found:

Eval Source:

Eval Date:

Eval Type: Eval Notes:

Eval General Type:

Violations Found:

No Other, not routine, done by local agency Not reported Riverside County Department of Env Health APSA CERS Other/Unknown 08-09-2017 Yes Other, not routine, done by local agency Not reported Riverside County Department of Env Health HMRRP CERS Other/Unknown 11-05-2020 No Other, not routine, done by local agency Not reported Riverside County Department of Env Health HW CERS Other/Unknown 01-12-2017 No Other, not routine, done by local agency Not reported Riverside County Department of Env Health HMRRP CERS **Compliance Evaluation Inspection** 07-21-2016 Yes Routine done by local agency Not reported Riverside County Department of Env Health HMRRP CERS **Compliance Evaluation Inspection** 07-21-2016 Yes

Routine done by local agency Not reported Riverside County Department of Env Health HW CERS

Compliance Evaluation Inspection 07-30-2020 Yes Routine done by local agency Not reported

S123625840

TC6783188.2s Page 61

Database(s)

EDR ID Number EPA ID Number

S123625840

GRFCO, INC. (Continued)

Eval Division: Eval Program: Eval Source:

Coordinates: Site ID: Facility Name: Env Int Type Code: Program ID: Coord Name: Ref Point Type Desc: Latitude: Longitude:

Affiliation:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc: Entity Name: Entity Title: Affiliation Address: Affiliation City: Affiliation State: Affiliation Country: Affiliation Zip: Affiliation Phone:

Affiliation Type Desc:

Legal Owner

Riverside County Department of Env Health HW CERS

118755 GRFCO, Inc. HWG 10325266 Not reported Center of a facility or station. 33.854020 -117.255050

CUPA District Riverside Cnty Env Health Not reported 4065 County Circle Drive, Room 104 Riverside CA Not reported 92503 (951) 358-5055

Document Preparer Penney Paulson Not reported Not reported

Operator George Frost Not reported Not reported Not reported Not reported Not reported (310) 991-4380

Facility Mailing Address Mailing Address Not reported P O Box 1747 Brea CA Not reported 92822 Not reported

Map ID Direction Distance Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number **EPA ID Number**

GRFCO, INC. (Continued)

Address 2:

EPA ID:

City,State,Zip:

Inactive Date:

Entity Name: George Frost Not reported Entity Title: Affiliation Address: P O Box 1747 Affiliation City: Brea Affiliation State: CA United States Affiliation Country: Affiliation Zip: 92822 Affiliation Phone: (310) 991-4380 Affiliation Type Desc: Identification Signer Entity Name: Penney Paulson Entity Title: Project Manager Affiliation Address: Not reported Affiliation City: Not reported Affiliation State: Not reported Not reported Affiliation Country: Affiliation Zip: Not reported Affiliation Phone: Not reported Affiliation Type Desc: Property Owner GEORGE FROST Entity Name: Entity Title: Not reported Affiliation Address: P O Box 1747 Affiliation City: Brea Affiliation State: CA Affiliation Country: **United States** Affiliation Zip: 92822 Affiliation Phone: (951) 657-8887 Affiliation Type Desc: **Environmental Contact** Entity Name: Penney Paulson Entity Title: Not reported Affiliation Address: P O Box 1747 Affiliation City: Brea Affiliation State: CA Affiliation Country: Not reported Affiliation Zip: 92822 Affiliation Phone: Not reported Affiliation Type Desc: Parent Corporation GRFCO, INC. Entity Name: Entity Title: Not reported Affiliation Address: Not reported Affiliation City: Not reported Affiliation State: Not reported Affiliation Country: Not reported Affiliation Zip: Not reported Affiliation Phone: Not reported HWTS: Name: Address:

GARCIA JUAREZ CONSTRUCTION 4517 WADE AVE Not reported PERRIS, CA 925717492 CAL000326869 06/30/2013

Database(s)

EDR ID Number EPA ID Number

S123625840

GRFCO, INC. (Continued)

Create Date: Last Act Date: Mailing Name: Mailing Address: Mailing Address 2: Mailing City,State,Zip: Owner Name: Owner Address: Owner Address 2: Owner City,State,Zip: Contact Name: Contact Address: Contact Address 2: Contact Address 2: City,State,Zip:

NAICS:

EPA ID: Create Date: NAICS Code: NAICS Description: Issued EPA ID Date: Inactive Date: Facility Name: Facility Address: Facility Address 2: Facility City: Facility County: Facility State: Facility Zip:

WSW 4517 WADE AVENUE 1/8-1/4 PERRIS, CA 92571 0.175 mi. 926 ft. Site 4 of 6 in cluster A Relative: MINES VIOLATIONS:

Name:

Address:

ONSITE KRUSHING CO.

Higher Actual: 1510 ft.

A4

City,State,Zip: Facility ID: MINES VIOLATIONS: Violation Number: Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Term Date: Title 30 Code of Federal Regulation Proposed Penalty: Assessment Amount: Paid Penalty Amount: Assessment Case Status: Closed Assessment Status: Year: 2009

11/19/2007 03/26/2014 Not reported PO BOX 309 Not reported BREA, CA 928220309 JIM JACKSON PO BOX 309 Not reported BREA, CA 928220309 LEON LOPEZ 4517 WADE AVE Not reported PERRIS, CA 925717492

CAL000326869 2011-07-25 09:22:17.600 23492 Power and Communication Transmission Line Construction 2007-11-19 14:08:56.47000 2013-06-30 00:00:00 GARCIA JUAREZ CONSTRUCTION 4517 WADE AVE Not reported PERRIS Not reported CA 925717492

> US MINES 1024907004 N/A

	4517 WADE AVENUE PERRIS, CA 92571 Not reported
	7980658
	0405772
	Not reported
	02/02/2009
	104(a)
	Citation
	Ν
	02/09/2009
ons:	50.30(a)
	100.00
	100.00
	100.00
	Proposed

ONSITE KRUSHING CO.

Database(s)

EDR ID Number EPA ID Number

ONSITE KRUSHING CO. (Continued)

Address Type: PO Box: Address: City: State: Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status: Status Date: Primary Site Description: Mine Type: State 2: County: Violation Number: Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Term Date: Title 30 Code of Federal Regulations: Proposed Penalty: Assessment Amount: Paid Penalty Amount: Assessment Case Status: Assessment Status: Year: Address Type: PO Box: Address: City: State: Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status: Status Date: Primary Site Description: Mine Type: State 2: County: Violation Number: Mine ID: Contractor ID: Date Issued:

Action Type: Type of Issue:

S and S:

Term Date:

MineLocation Not reported 4517 WADE AVENUE PERRIS CA Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned 01/05/2009 Sand, Industrial NEC Surface CA LOS ANGELES 7999964 0405772 Not reported 12/09/2008 104(a) Citation Ν 12/11/2008 56.1000 100.00 100.00 100.00 Proposed Closed 2008 MineLocation Not reported 4517 WADE AVENUE PERRIS CA Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned 01/05/2009 Sand, Industrial NEC Surface CA LOS ANGELES 7999965 0405772 Not reported 12/09/2008 104(a) Citation Υ 01/05/2009

Database(s)

EDR ID Number EPA ID Number

ONSITE KRUSHING CO. (Continued)

Title 30 Code of Federal Regulations: 56.9301 Proposed Penalty: 108.00 Assessment Amount: 100.00 Paid Penalty Amount: 100.00 Assessment Case Status: Proposed Closed Assessment Status: 2008 Year: Address Type: MineLocation PO Box: Not reported Address: 4517 WADE AVENUE City: PERRIS State: CA Operator: Onsite Krushing Co. Zip: 92571 Mine Controller Name: Jim Jackson Name: ONSITE KRUSHING CO. Ownership Date: 12/08/2008 Mine Status: Abandoned Status Date: 01/05/2009 Primary Site Description: Sand, Industrial NEC Mine Type: Surface State 2: CA County: LOS ANGELES 7999966 Violation Number: Mine ID: 0405772 Contractor ID: Not reported Date Issued: 12/09/2008 Action Type: 104(a) Type of Issue: Citation S and S: γ Term Date: 01/05/2009 Title 30 Code of Federal Regulations: 56.9301 Proposed Penalty: 243.00 Assessment Amount: 173.00 Paid Penalty Amount: 173.00 Assessment Case Status: Proposed Assessment Status: Closed 2008 Year: Address Type: MineLocation PO Box: Not reported Address: 4517 WADE AVENUE City: PERRIS State: CA Operator: Onsite Krushing Co. Zip: 92571 Mine Controller Name: Jim Jackson ONSITE KRUSHING CO. Name: Ownership Date: 12/08/2008 Mine Status: Abandoned 01/05/2009 Status Date: Primary Site Description: Sand, Industrial NEC Mine Type: Surface State 2: CA LOS ANGELES County:

Violation Number:

7999967

Database(s)

EDR ID Number EPA ID Number

ONSITE KRUSHING CO. (Continued)

Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Term Date: Title 30 Code of Federal Regulations: Proposed Penalty: Assessment Amount: Paid Penalty Amount: Assessment Case Status: Assessment Status: Year: Address Type: PO Box: Address: City: State: Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status: Status Date: Primary Site Description: Mine Type: State 2: County: Violation Number: Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Term Date: Title 30 Code of Federal Regulations: Proposed Penalty: Assessment Amount: Paid Penalty Amount: Assessment Case Status: Assessment Status: Year: Address Type: PO Box: Address: City: State: Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status:

0405772 Not reported 12/09/2008 104(a) Citation Υ 01/05/2009 56.14107(a) 243.00 173.00 173.00 Proposed Closed 2008 MineLocation Not reported 4517 WADE AVENUE PERRIS CA Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned 01/05/2009 Sand, Industrial NEC Surface CA LOS ANGELES 7999968 0405772 Not reported 12/09/2008 104(a) Citation Υ 01/05/2009 56.14107(a) 243.00 173.00 173.00 Proposed Closed 2008 MineLocation Not reported 4517 WADE AVENUE PERRIS CA Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned

Database(s)

EDR ID Number EPA ID Number

ONSITE KRUSHING CO. (Continued)

Status Date: Primary Site Description: Mine Type: State 2: County: Violation Number: Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Term Date: Title 30 Code of Federal Regulations: Proposed Penalty: Assessment Amount: Paid Penalty Amount: Assessment Case Status: Assessment Status: Year: Address Type: PO Box: Address: City: State: Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status: Status Date: Primary Site Description: Mine Type: State 2: County: Violation Number: Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Term Date: Title 30 Code of Federal Regulations: Proposed Penalty: Assessment Amount: Paid Penalty Amount: Assessment Case Status: Assessment Status: Year: Address Type: PO Box: Address: City:

01/05/2009 Sand, Industrial NEC Surface CA LOS ANGELES 7999969 0405772 Not reported 12/09/2008 104(a) Citation 01/05/2009 56.14107(a) 243.00 173.00 173.00 Proposed Closed 2008 MineLocation Not reported 4517 WADE AVENUE PERRIS CA Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned 01/05/2009 Sand, Industrial NEC Surface CA LOS ANGELES 7999970 0405772 Not reported 12/09/2008 104(a) Citation Y 01/05/2009 56.14107(a) 243.00 173.00 173.00 Proposed Closed 2008 MineLocation Not reported 4517 WADE AVENUE PERRIS

Database(s)

EDR ID Number EPA ID Number

ONSITE KRUSHING CO. (Continued)

State:

Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status: Status Date: Primary Site Description: Mine Type: State 2: CA County: Violation Number: Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Υ Term Date: Title 30 Code of Federal Regulations: **Proposed Penalty:** Assessment Amount: Paid Penalty Amount: Assessment Case Status: Assessment Status: Year: Address Type: PO Box: Address: City: State: CA Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status: Status Date: Primary Site Description: Mine Type: State 2: CA County: Violation Number: Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Term Date: Title 30 Code of Federal Regulations: Proposed Penalty: Assessment Amount: Paid Penalty Amount:

CA Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned 01/05/2009 Sand, Industrial NEC Surface LOS ANGELES 7999971 0405772 Not reported 12/09/2008 104(a) Citation 01/05/2009 56.14107(a) 243.00 173.00 173.00 Proposed Closed 2008 MineLocation Not reported 4517 WADE AVENUE PERRIS Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned 01/05/2009 Sand, Industrial NEC Surface LOS ANGELES 7999972 0405772 Not reported 12/09/2008 104(a) Citation 01/05/2009 56.14107(a) 243.00 173.00 173.00

Map ID Direction Distance Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1024907004

ONSITE KRUSHING CO. (Continued)

Assessment Case Status: Assessment Status: Year: Address Type: PO Box: Address: City: State: Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status: Status Date: Primary Site Description: Mine Type: State 2: County: Violation Number: Mine ID: Contractor ID: Date Issued: Action Type: Type of Issue: S and S: Term Date: Title 30 Code of Federal Regulations: Proposed Penalty: Assessment Amount: Paid Penalty Amount: Assessment Case Status: Assessment Status: Year: Address Type: PO Box: Address: City: State: Operator: Zip: Mine Controller Name: Name: Ownership Date: Mine Status: Status Date: Primary Site Description: Mine Type: State 2: County:

Proposed Closed 2008 MineLocation Not reported 4517 WADE AVENUE PERRIS CA Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned 01/05/2009 Sand, Industrial NEC Surface CA LOS ANGELES 7999973 0405772 Not reported 12/09/2008 104(a) Citation Υ 01/05/2009 56.14107(a) 243.00 173.00 173.00 Proposed Closed 2008 MineLocation Not reported 4517 WADE AVENUE PERRIS CA Onsite Krushing Co. 92571 Jim Jackson ONSITE KRUSHING CO. 12/08/2008 Abandoned 01/05/2009 Sand, Industrial NEC Surface CA LOS ANGELES

<u>Click this hyperlink</u> while viewing on your computer to access 6 additional US_MINES_VIOLATIONS: record(s) in the EDR Site Report.

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

A5	GRFCO INC.	RCRA NonGen / NLR	1026489942
wsw	4517 WADE AVE	North North Nert	CAL000392216
1/8-1/4	PERRIS, CA 92571		
0.175 mi.			
926 ft.	Site 5 of 6 in cluster A		
Relative:	RCRA NonGen / NLR:		
Higher	Date Form Received by Agency:	20131226	
Actual:	Handler Name: GRFCO INC.		
1510 ft.	Handler Address:	4517 WADE AVE	
	Handler City,State,Zip:	PERRIS, CA 92571	
	EPA ID: Contact Name:	CAL000392216 PENNEY PAULSON	
	Contact Address:	4517 WADE AVE	
	Contact City,State,Zip:	PERRIS, CA 92571	
	Contact Telephone:	951-657-8887	
	Contact Fax:	951-657-0777	
	Contact Email:	GRFCOINC@GMAIL.COM	
	Contact Title:	Not reported	
	EPA Region:	09	
	Land Type:	Not reported	
	Federal Waste Generator Description:	Not a generator, verified	
	Non-Notifier: Biennial Report Cycle:	Not reported Not reported	
	Accessibility:	Not reported	
	Active Site Indicator:	Not reported	
	State District Owner:	Not reported	
	State District:	Not reported	
	Mailing Address:	PO BOX 1747	
	Mailing City,State,Zip:	BREA, CA 92822-0000	
	Owner Name:	GRFCO INC	
	Owner Type:		
	Operator Name: Operator Type:	PENNEY PAULSON Other	
	Short-Term Generator Activity:	No	
	Importer Activity:	No	
	Mixed Waste Generator:	No	
	Transporter Activity:	No	
	Transfer Facility Activity:	No	
	Recycler Activity with Storage:	No	
	Small Quantity On-Site Burner Exemption:	No	
	Smelting Melting and Refining Furnace Exemption:	No	
	Underground Injection Control: Off-Site Waste Receipt:	No No	
	Universal Waste Indicator:	No	
	Universal Waste Indicator.	No	
	Federal Universal Waste:	No	
	Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported	
	Active Site Converter Treatment storage and Disposal Facility:	Not reported	
	Active Site State-Reg Treatment Storage and Disposal Facility	: Not reported	
	Active Site State-Reg Handler:		
	Federal Facility Indicator:	Not reported	
	Hazardous Secondary Material Indicator:	N Not reported	
	Sub-Part K Indicator: Commercial TSD Indicator:	Not reported No	
	Treatment Storage and Disposal Type:	NO Not reported	
	2018 GPRA Permit Baseline:	Not on the Baseline	
	2018 GPRA Renewals Baseline:	Not on the Baseline	
	Permit Renewals Workload Universe:	Not reported	

Database(s)

EDR ID Number EPA ID Number

GRFCO INC. (Continued)

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:	20200814
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator: Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email: Owner GRFCO INC Other Not reported 4517 WADE AVE PERRIS, CA 92571 800-375-7272 Not reported Not reported Not reported

Operator PENNEY PAULSON Other Not reported 4517 WADE AVE PERRIS, CA 92571 951-657-8887 Not reported Not reported Not reported

Database(s)

EDR ID Number EPA ID Number

	GRFCO INC. (Continued)		1026489942
	Historic Generators: Receive Date: Handler Name: GRFCO INC Federal Waste Generator Description State District Owner: Large Quantity Handler of Universal Recognized Trader Importer: Recognized Trader Exporter: Spent Lead Acid Battery Importer: Spent Lead Acid Battery Exporter: Current Record: Non Storage Recycler Activity: Electronic Manifest Broker:	n: Not a generator, verified Not reported	
	List of NAICS Codes and Descriptions: NAICS Code: NAICS Description:	811111 GENERAL AUTOMOTIVE REPAIR	
	Facility Has Received Notices of Violati Violations:	ons: No Violations Found	
	Evaluation Action Summary: Evaluations:	No Evaluations Found	
A6 WSW 1/8-1/4 0.177 mi. 933 ft.	HIGH REACH EQUIPMENT SERVICES 4461 WADE AVE PERRIS, CA 92571 Site 6 of 6 in cluster A	RCRA NonGen / NLR	1026722281 CAL000459341
Relative: Higher Actual: 1509 ft.	RCRA NonGen / NLR: Date Form Received by Agency: Handler Name: Handler Address: Handler City,State,Zip: EPA ID: Contact Name: Contact Address: Contact City,State,Zip: Contact Telephone: Contact Fax: Contact Fax: Contact Fax: Contact Email: Contact Title: EPA Region: Land Type: Federal Waste Generator Description Non-Notifier: Biennial Report Cycle: Accessibility: Active Site Indicator: State District Owner: State District: Mailing Address: Mailing City,State,Zip:	20210112 HIGH REACH EQUIPMENT SERVICES 4461 WADE AVE PERRIS, CA 92571 CAL000459341 KENNETH PEREA 31295 EMPEROR DR CANYON LAKE, CA 92587 714-932-8946 Not reported KENPEREA@HIGHREACH.US Not reported 09 Not reported 09 Not reported Not a generator, verified Not reported Not report	Έ 2 #1400

Database(s)

EDR ID Number EPA ID Number

HIGH REACH EQUIPMENT SERVICES (Continued)

, , , , , , , , , , , , , , , , , , ,	
Owner Type:	Other
Operator Name:	KENNETH PEREA
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
· · · · · · · · · · · · · · · · · · ·	No
Federal Universal Waste:	
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A 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:	20210226
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

Database(s)

EDR ID Number EPA ID Number

1026722281

HIGH REACH EQUIPMENT SERVICES (Continued) Sub-Part P Indicator: No Handler - Owner Operator: Owner/Operator Indicator: Owner KENNETH PEREA Owner/Operator Name: Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported Owner/Operator Address: 31295 EMPEROR DR Owner/Operator City,State,Zip: CANYON LAKE, CA 92587 Owner/Operator Telephone: 714-932-8946 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported Owner/Operator Indicator: Operator Owner/Operator Name: **KENNETH PEREA** Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported 31295 EMPEROR DR Owner/Operator Address: Owner/Operator City,State,Zip: CANYON LAKE, CA 92587 Owner/Operator Telephone: 714-932-8946 Owner/Operator Telephone Ext: Not reported **Owner/Operator Fax:** Not reported Owner/Operator Email: Not reported Historic Generators: 20210112 Receive Date: Handler Name: HIGH REACH EQUIPMENT SERVICES Federal Waste Generator Description: Not a generator, verified State District Owner: Not reported Large Quantity Handler of Universal Waste: No Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: No Current Record: Yes Non Storage Recycler Activity: No Electronic Manifest Broker: No List of NAICS Codes and Descriptions: NAICS Code: 562991 SEPTIC TANK AND RELATED SERVICES NAICS Description: Facility Has Received Notices of Violations: Violations: No Violations Found **Evaluation Action Summary:** No Evaluations Found Evaluations:

Map ID	MAP FINDINGS	
Direction Distance Elevation	Site	EDR ID Number Database(s) EPA ID Number
7	NEW CINGULAR WIRELESS PCS LLC	RCRA NonGen / NLR 1024874102
SW 1/8-1/4	4441 WADE AVE PERRIS, CA 92571	CAL000442756
0.196 mi.	•	
1036 ft.		
Relative:	RCRA NonGen / NLR:	
Higher	Date Form Received by Agency: Handler Name: NEW CINGULAR WIRELES	20190124 SS PCS LLC
Actual: 1509 ft.	Handler Address:	4441 WADE AVE
	Handler City,State,Zip:	PERRIS, CA 92571
	EPA ID: Contact Name:	CAL000442756 DERONICA LAMB
	Contact Address:	308 S AKARD ST 17TH FL
	Contact City,State,Zip:	DALLAS, TX 75202
	Contact Telephone: Contact Fax:	214-741-0464 214-464-1424
	Contact Frax.	DR1429@ATT.COM
	Contact Title:	Not reported
	EPA Region: Land Type:	09 Not reported
	Federal Waste Generator Description:	Not a generator, verified
	Non-Notifier:	Not reported
	Biennial Report Cycle: Accessibility:	Not reported Not reported
	Active Site Indicator:	Handler Activities
	State District Owner:	Not reported
	State District: Mailing Address:	Not reported 308 S AKARD ST 17TH FL
	Mailing City,State,Zip:	DALLAS, TX 75202
	Owner Name:	NEW CINGULAR WIRELESS PCS LLC
	Owner Type: Operator Name:	Other DERONICA LAMB
	Operator Type:	Other
	Short-Term Generator Activity:	No
	Importer Activity: Mixed Waste Generator:	No No
	Transporter Activity:	No
	Transfer Facility Activity:	No
	Recycler Activity with Storage: Small Quantity On-Site Burner Exemption:	No No
	Smelting Melting and Refining Furnace Exemption:	No
	Underground Injection Control:	No
	Off-Site Waste Receipt: Universal Waste Indicator:	No Yes
	Universal Waste Destination Facility:	Yes
	Federal Universal Waste:	No.
	Active Site Fed-Reg Treatment Storage and Disposal Facility: Active Site Converter Treatment storage and Disposal Facility:	Not reported Not reported
	Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
	Active Site State-Reg Handler:	
	Federal Facility Indicator: Hazardous Secondary Material Indicator:	Not reported N
	Sub-Part K Indicator:	Not reported
	Commercial TSD Indicator:	No
	Treatment Storage and Disposal Type: 2018 GPRA Permit Baseline:	Not reported Not on the Baseline
	2018 GPRA Renewals Baseline:	Not on the Baseline
	Permit Renewals Workload Universe:	Not reported

Database(s)

EDR ID Number EPA ID Number

NEW CINGULAR WIRELESS PCS LLC (Continued)

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:	20190222
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator: Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email:

Owner/Operator Indicator: Owner/Operator Name: Legal Status: Date Became Current: Date Ended Current: Owner/Operator Address: Owner/Operator City,State,Zip: Owner/Operator Telephone: Owner/Operator Telephone Ext: Owner/Operator Fax: Owner/Operator Email: Owner NEW CINGULAR WIRELESS PCS LLC Other Not reported 308 S AKARD ST 17TH FL DALLAS, TX 75202 214-741-0464 Not reported Not reported Not reported Not reported

Operator DERONICA LAMB Other Not reported 308 S AKARD ST 17TH FL DALLAS, TX 75202 214-741-0464 Not reported Not reported Not reported

Map ID Direction		MAP FIND	NGS		
Distance Elevation	Site			Database(s)	EDR ID Number EPA ID Number
	NEW CINGULAR WIRELESS PCS LLC	Continued)			1024874102
	Historic Generators: Receive Date: Handler Name: NEW CIN Federal Waste Generator Descript State District Owner: Large Quantity Handler of Universa Recognized Trader Importer: Recognized Trader Exporter: Spent Lead Acid Battery Importer: Spent Lead Acid Battery Exporter: Current Record: Non Storage Recycler Activity: Electronic Manifest Broker:		20190124 PCS LLC Not a generator, verified Not reported No No No No Yes Not reported Not reported		
	List of NAICS Codes and Descriptions NAICS Code: NAICS Description:	517911	CATIONS RESELLERS		
	Facility Has Received Notices of Viola Violations:	ations:	No Violations Found		
	Evaluation Action Summary: Evaluations:		No Evaluations Found		
8 WNW 1/8-1/4 0.220 mi. 1159 ft.	WEST TOW INC 4615 WADE AVE PERRIS, CA 92571		F	CRA NonGen / NLR	1026056511 CAL000452698
Relative: Higher Actual: 1512 ft.	RCRA NonGen / NLR: Date Form Received by Agency: Handler Name: Handler Address: Handler City,State,Zip: EPA ID: Contact Name: Contact Address: Contact City,State,Zip: Contact Telephone: Contact Fax: Contact Fax: Contact Fax: Contact Title: EPA Region: Land Type: Federal Waste Generator Descript Non-Notifier: Biennial Report Cycle: Accessibility: Active Site Indicator: State District Owner: State District: Mailing Address: Mailing City,State,Zip: Owner Name:	WEST TOW INC	20200214 4615 WADE PERRIS, CA CAL0004526 STEVE WES 4615 WADE PERRIS, CA 951-760-811 951-867-404 SWESTTOW Not reported Not Reported NotR	92571 98 TBERG AVE 92571 4 5 '@GMAIL.COM tor, verified SIDE CT A 92584	

Database(s)

EDR ID Number EPA ID Number

WEST TOW INC (Continued)

, , , , , , , , , , , , , , , , , , ,	
Owner Type:	Other
Operator Name:	STEVE WESTBERG
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No Not reported
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:	Ν
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:	
Environmental Control Indicator:	No NCAPS ranking 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:	20200306
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

Database(s) EF

EDR ID Number EPA ID Number

1026056511

WEST TOW INC (Continued)

Evaluations:

Sub-Part P Indicator: No Handler - Owner Operator: Owner/Operator Indicator: Owner WEST TOW INC Owner/Operator Name: Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported Owner/Operator Address: 28134 GLENSIDE CT Owner/Operator City,State,Zip: MENIFEE, CA 92584 Owner/Operator Telephone: 951-445-7172 Owner/Operator Telephone Ext: Not reported Owner/Operator Fax: Not reported Owner/Operator Email: Not reported Owner/Operator Indicator: Operator Owner/Operator Name: STEVE WESTBERG Legal Status: Other Date Became Current: Not reported Date Ended Current: Not reported 4615 WADE AVE Owner/Operator Address: Owner/Operator City,State,Zip: PERRIS, CA 92571 Owner/Operator Telephone: 951-760-8114 Owner/Operator Telephone Ext: Not reported **Owner/Operator Fax:** Not reported Owner/Operator Email: Not reported Historic Generators: 20200214 Receive Date: Handler Name: WEST TOW INC Federal Waste Generator Description: Not a generator, verified State District Owner: Not reported Large Quantity Handler of Universal Waste: No Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: No Current Record: Yes Non Storage Recycler Activity: Not reported Electronic Manifest Broker: Not reported List of NAICS Codes and Descriptions: NAICS Code: 811198 ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE NAICS Description: Facility Has Received Notices of Violations: Violations: No Violations Found **Evaluation Action Summary:**

No Evaluations Found

Map ID Direction		MAP FINDINGS		
Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
9 North	INLAND PLASTERING 1153 W OLEANDER AVE		UST	U003782738
1/8-1/4 0.245 mi. 1296 ft.	PERRIS, CA 92571			
Relative: Lower	UST:			
Actual:	Name: Address:	INLAND PLASTERING 1153 W OLEANDER AVE		
1492 ft.	City,State,Zip:	PERRIS, CA 92571		
	Facility ID:			
	Permitting Agency: CERSID:	RIVERSIDE COUNTY Not reported		
	Latitude:	33.85901		
	Longitude:	-117.25138		
B10 NNE	MARCH AIR FORCE BASE	CA	BOND EXP. PLAN	S105960470 N/A
1/2-1 0.081 mi	MORENO VALLEY, CA 92518			
0.981 mi. 5178 ft.	Site 1 of 2 in cluster B			
Relative: Lower	CA BOND EXP. PLAN: Reponsible Party:	FEDERAL FACILITY SITE CLEANUP WORK	PLAN	
Actual:	Project Revenue Source Cor	npany: Not reported		
1483 ft.	Project Revenue Source Ado	•		
	Project Revenue Source City Project Revenue Source Des		gency agreement with	h the
		Department of Defense of issue an order for o Force's cleanup efforts. DHS has budgeted \$1 costs. DHS will recover 100 percent of direct o overhead related to the project. The Departme associated with remedial investigation and cle	oversight/monitoring of 100,000 for its oversig costs plus staff costs a ent of Defense will pay	f the Air ht/monitoring and
	Site Description:	The site is a U.S. Air Force Base.	zardaua waata dianay	al an basa
	Hazardous Waste Desc:	The initial assessment at this site identified ha in landfills, burning pits, dry wells, and ground wastes associated with aircraft and general m including fuels, oils, polychlorinated biphenyls radiation, and the solvents trichloroethylene (7	disposal. Several typ aintenance were iden (PCBs), pesticides, lo rCE) and perchloroeth	es of tified, ow-level hylene (PCE).
	Threat To Public Health & Er	NY: Past disposal practices at March Air Force Ba ground water. Work to date has identified grou base, and recently, in private wells east of the known exposure at this time.	und water contaminati	ion on and off
	Site Activity Status:	The installation restoration program has been the program is in the confirmation/quantification process. DHS's oversight has increased due the supplies.	on step of the mitigation	on

B11MARCH AIR RESERVE BASENNE3,545 ACRES; EAST OF RIVERSIDE1/2-1RIVERSIDE, CA 925180.981 mi.5178 ft.5178 ft.Site 2 of 2 in cluster B

Relative:	ENVIROSTOR:	
Lower	Name:	MARCH AIR RESERVE BASE
Actual: 1483 ft.	Address: City,State,Zip:	3,545 ACRES; EAST OF RIVERSIDE RIVERSIDE, CA 92518

ENVIROSTOR S104241831 HIST Cal-Sites N/A

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

	- (
Facility ID:	33970004
Status:	Active
Status Date:	07/13/1998
Site Code:	400689
Site Type:	Federal Superfund
Site Type Detailed:	Open Base
Acres:	2500
NPL:	YES
Regulatory Agencies:	SMBRP, RWQCB 8 - Santa Ana, US EPA
Lead Agency:	US EPA
Program Manager:	Stephen Niou
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	61
Senate:	31
Special Program:	DSMOA
Restricted Use:	
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.89608
Longitude: APN:	
Past Use:	NONE SPECIFIED
Fast Use.	AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, DEGREASING FACILITY, DRY CLEANING, ENGINE TESTING/REPAIR, FIRE TRAINING AREAS, FUEL - AIRCRAFT
	STORAGE/ REFUELING, FUEL - VEHICLE STORAGE/ REFUELING, LANDFILL -
	DOMESTIC, MACHINE SHOP, OFFICE BUILDING, OIL/WATER SEPARATORS,
	PAINT/DEPAINT FACILITY
Potential COC:	Lead Polychlorinated biphenyls (PCBs Polynuclear aromatic
	hydrocarbons (PAHs Tetrachloroethylene (PCE TPH-diesel TPH-JET FUEL
	1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Carbon
	tetrachloride Chloroform
Confirmed COC:	30013-NO 30018-NO Polynuclear aromatic hydrocarbons (PAHs
	Tetrachloroethylene (PCE TPH-diesel 1,1,1-Trichloroethane (TCA
	Trichloroethylene (TCE Chloroform Carbon tetrachloride TPH-JET FUEL
Potential Description:	OTH, SOIL
Alias Name:	ALESSANDRO ARMY AIR FIELD
Alias Type:	Alternate Name
Alias Name:	
Alias Type:	Alternate Name
Alias Name:	110033608665
Alias Type:	EPA (FRS #)
Alias Name:	DOD100285300
Alias Type:	GeoTracker Global ID
Alias Name:	T1000005654
Alias Type:	GeoTracker Global ID
Alias Name:	T1000005916
Alias Type:	GeoTracker Global ID
Alias Name:	16985
Alias Type:	RB-PCA
Alias Name:	400689
Alias Type:	Project Code (Site Code)
Alias Name:	33970004
Alias Type:	Envirostor ID Number
Completed Info:	
Completed Area Name:	PROJECT WIDE
Completed Sub Area Na	
Completed Document T	ype: Federal Facility Agreement

Database(s)

EDR ID Number EPA ID Number

CH AIR RESERVE BASE (C	ontinued) S104241
Completed Date:	06/28/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/16/2017
comments:	Not reported
Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	PANER
Completed Document Type: Completed Date:	Operation and Maintenance Report 06/17/1996
Comments:	O&M Site 33(PANERO): The Site 33 Pump and Treat System (PTS) consists
	of flow equalization tanks, an oil-water separator, air stripping,
	thermal oxidation of air stripper off-gas, and granular activated
	carbon polishing of the air stripper effluent. An internal combustion
	engine is used to treat vapors recovered by vapor extraction of the pumping wells. The PTS is designed to sustain continuous operation
	without direct operator control. Periodic surveillance and
	maintenance will be required to ensure reliable operation and
	compliance with regulatory requirements. Process performing
	monitoring of the vapor and water treatment systems will be
	conducted. This includes on-site sampling and tests of the influent streams, intermittent treatment points and the effluent streams to
	verify satisfactory operation, and timely change-out of the GAC
	treatment units to maintain regulatory discharge limits and cost
	effectiveness. Preventive equipment maintenance tasks, in accordance
	with the manufacturers recommend -ations, will be performed along
	with routine maintenance and record keeping activities. Normally, one field technician will be required to perform the routine O&M tasks,
	including well inspections and maintenance, pump overhauls, process
	instrument calibrations, equipment repairs and replacements. The
	manufacturer shall have local service representatives capable of
	responding to equipment failures or problems within 3 hours of
	initial contact.
Completed Area Name:	OU 1
Completed Sub Area Name:	SIT31
Completed Document Type:	Operation and Maintenance Plan
Completed Date: Comments:	05/08/1996 Not reported
Johnnenits.	Notrepotted
Completed Area Name:	OU 1
Completed Sub Area Name:	SIT31
Completed Document Type:	* Remedial or Removal Design
	05/08/1996
Completed Date:	DES - SITE 31: This is part of OLL #1. The practice of dis- charging
Completed Date:	DES - SITE 31: This is part of OU #1. The practice of dis- charging solvents on the ground reportedly occurred from about the mid-1950s
Completed Date:	DES - SITE 31: This is part of OU #1. The practice of dis- charging solvents on the ground reportedly occurred from about the mid-1950s to the mid-1970s. In addition, floor drains from maintenance shops
Completed Date:	solvents on the ground reportedly occurred from about the mid-1950s to the mid-1970s. In addition, floor drains from maintenance shops may have leaked solvents to the subsurface. The primary contaminants
Completed Date:	solvents on the ground reportedly occurred from about the mid-1950s to the mid-1970s. In addition, floor drains from maintenance shops may have leaked solvents to the subsurface. The primary contaminants of concern at Site 31 are Trichloro- ethylene (PCE), and traces of
Completed Date:	solvents on the ground reportedly occurred from about the mid-1950s to the mid-1970s. In addition, floor drains from maintenance shops may have leaked solvents to the subsurface. The primary contaminants of concern at Site 31 are Trichloro- ethylene (PCE), and traces of other chlorinated solvents. The contaminants are contained within the
Completed Date:	solvents on the ground reportedly occurred from about the mid-1950s to the mid-1970s. In addition, floor drains from maintenance shops may have leaked solvents to the subsurface. The primary contaminants of concern at Site 31 are Trichloro- ethylene (PCE), and traces of other chlorinated solvents. The contaminants are contained within the soils and the groundwater and will require remediation to prevent
Completed Date:	solvents on the ground reportedly occurred from about the mid-1950s to the mid-1970s. In addition, floor drains from maintenance shops may have leaked solvents to the subsurface. The primary contaminants of concern at Site 31 are Trichloro- ethylene (PCE), and traces of other chlorinated solvents. The contaminants are contained within the soils and the groundwater and will require remediation to prevent further contamination of the OU#1 groundwater. Extensive studies to
Completed Date: Comments:	solvents on the ground reportedly occurred from about the mid-1950s to the mid-1970s. In addition, floor drains from maintenance shops may have leaked solvents to the subsurface. The primary contaminants of concern at Site 31 are Trichloro- ethylene (PCE), and traces of other chlorinated solvents. The contaminants are contained within the soils and the groundwater and will require remediation to prevent

EDR ID Number Database(s) EPA ID Number

MARCH AIR RESERVE BASE (Continued)

dual phase extraction technology coupled with granular activated carbon treatment of extracted groundwater and soil vapor has been selected based on a pilot scale system shown to be a cost- effective method for remediation of this Site. The treatment system shall discharge treated water that will have a daily average concentration of 0.5 ppb TCE or less, and never will exceed a concentration of 5 ppb TCE. Treated groundwater will be reinjected into the aquifer combined with discharge of excess water to the Heacock Storm drain and/or the base sanitary sewer system, as required. Installation of process equipment, surface piping and electrical facilities is planned for the end of April, and startup of the system July 1996. This remedial action complies with the statutory preference for remedies as specified in the Record of Decision (ROD) for OU#1. ' O&M SITE 31: The Site 31 dual phase extraction and treatment system is designed to sustain continuous operation without direct operator control. Periodic surveillance and maintenance will be required to ensure reliable operation and compliance with regulatory requirement. Process performing monitoring of the vapor and water treatment systems will be conducted. This includes on-site sampling and tests of the influent streams, intermittent treatment points and the effluent streams to verify satisfactory operation, and timely change-out of the GAC treat- ment units to maintain regulatory discharge limits and cost effectiveness. Preventive equipment maintenance tasks, in accordance with the manufacturers recommendations, will be performed along with routine maintenance and record keeping activities. It is expected that the carbon change-out frequency will gradually decrease as the soil and groundwater contaminant levels decline with ongoing treatment. Initially the change-outs may occur once every 1-2 months and subsequently may decrease to once or twice a year for the groundwater treatment system. Normally, one field technician will be required to perform the routine O&M tasks, including wells inspections and maintenance, pump overhauls, process instrument calibrations, equipment repairs and replacements. Status reports along with analytical results and discharge records will be prepared and submitted as reqired for satisfactory operating control and regulatory compliance requirements. Qualified supervisory personnel will oversee execution of the O&M tasks to minimize costs, and ensure timely and accurate operating reports.

Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:

OU2

SIT11 Removal Action Completion Report 05/01/1996

RA - SITE 11: Site 11 is part of OU#2. It includes an area designated as the Liquid Fuels Management, Bulk Storage Facility. The leaking fuel line section was between the tank car unloading dock (Fuel Pump Station Building 2202 and Building 2340. These fuel lines transport fuels from the fuel storage tanks tot he flight line to enable refueling of aircraft. Leakage of the fuel line was discovered when March AFB personnel noticed a loss in line pressure during an integrity test of a section of the line between the fuel pump station and the flight line. Visual indications of a fuel leak were also observed in and around the concrete valult located adjacent to the fuel pump station. The objective of the Immediate Response Action was to remove and replace the leaking section of the sub-surface JP-8 fuel line. This was accomplished within a very tight schedule

S104241831

TC6783188.2s Page 84

EDR ID Number Database(s) EPA ID Number

MARCH AIR RESERVE BASE (Continued)

(approx. seven days) to prevent the use of outside trucks for delivery of fuels to the aircrafts. The removal action consisted of trenching to expose the sub-surface fuel lines and associated vault area including the demolishing and removal of overlaying asphalt and concrete, the removal of a 230 foot of JP-8 fuel line and a 210 foot section of an inactive JP-8 line was also removed, the placement of a new 8 inch steel JP-8 fuel line and a 12 inch steel road crossing sleeve and reconstruction of demolished concrete vault. Approximately, 380 cubic yards of contaminated soil was removed and stockpiled at Site 15 for remediation. Upon getting the new pipe section on-line the general site area was landscaped and restored to the original condition to the extent possible. This included the backfilling maximum dry density of the soil, and the replacement of the overlaying asphalt.

Completed Area Name:	(
Completed Sub Area Name:	5
Completed Document Type:	F
Completed Date:	(
Comments:	1

Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments: OU2 STE 1 Feasibility Study Report 03/25/1996 Not reported

OU 1

STE 9

Feasibility Study Report 03/25/1996 RIFS - SITE 9: The removal of the OW/S will eliminate a potential source area for groundwater contamination in the future. This Site Specific Action Memorandum was prepared to evaluate and identify the most effective remedial alternative to remove the OW/S and dispose of the expected 100 cubic yards of oil contaminated soil. On-base consolidation with Site 6 lined waste cell provides the maximum level of regulatory compliance within the lowest cost level and is compatible with land use. Site 9 is recommended for military reuse under the Joint Power Authority preferred alternative. Site 9 vicinity may potentially have Beechy's Squirrel and Burrowing Owl, but excavation activities will be focused on the OW/S. No potential wetlands are located in Site 9 vicinity. ' RIFS - SITE 1: Soil sampling at Site 1 detected polycyclic aromatic hydrocarfons (PAHs) as contaminant of concerns. Ground- water samples detected metals; however, only manganese was detected above US Environmental Protection Agency Preliminary remediation Goals (PRGs). Soil from Site 1 was excavated during construction of the Air National Guard Alert Facility. Approximately, 3,100 cubic yards of PAH contaminated soil has been stockpiled on-site under plastic sheeting pending disposal. The risk assessment for Site 1 determined that no human health risk was present at the site because the exposure pathway was limited. Now that the soil has been disturbed, the soil stockpiled at Site 1 needs to be removed to preclude further exposure. This Site Specific Action Memorandum was prepared to evaluate and identify the most effective disposal alternative. The site is planned for Air National Guard use and will remain in military use. Site 1 is not a habitat for any endangered species and no perennial wetlands are located in its vicinity.

Completed Area Name:OU 1Completed Sub Area Name:STE10Completed Document Type:* Remedial or Removal Design

Database(s)

EDR ID Number **EPA ID Number**

S104241831

Completed Date:	02/02/1996
Comments:	Not reported
Completed Area Name:	OU 1
Completed Sub Area Name:	STE15

Completed Sub Area Name: Completed Document Type: Completed Date: Comments:

MARCH AIR RESERVE BASE (Continued)

* Remedial or Removal Design 02/02/1996

DES - SITE 10: This is part of OU#1. The drainage channel, which was installed prior to 1940, has reportedly received various oils, hydraulic fluids, diesel fuel, jet fuel, waste paints, paint strippers, paint thinners, battery acids and solvents. The drainage channel is concretelined (since the 1960s) up to the eastern boundary of the base where it discharges to the Perris Valley storm drain. The objectives of this remediation of contaminated sediment from Site 10, pursuant to the cleanup criteria set forth in the final OU#1 Record of Decision (ROD). Approximately 15 cubic yards of sediment material will be removed from the concrete-lined channel and transported off-site to Candelaria Environmental for bioremediation. ' DES - SITE 15: This is also part of OU#1. The Fire Training Area (FTA), Site 15, was developed in 1978 and was reportedly constructed by placing an underdrain system and gravel over a clay liner. Firefighting water, solutions of Aqueous Film Forming Form (AFFF) and residual fuel used during training exercises were drained to a formely unlined water holding pond located adjacent to the FTA. Approximately 6000 gallons per year of contaminated JP-4 have been burned in training exercises since the facility was constructed in 1978. The primary contaminants of concern are Benzene, Naphthalene, 2-Methylnaphthalene and Phenanthrene. The remedial actions for Site 15 will require the handling of two streams; the evaporation pond water and soils contaminated with PAHs. Approximately 4,500 gallons of water, from the evaporation pond, will be transferred to a base sewer inlet located one-half mile from Site 15 using a 5,000-gallon vacuum truck supplied by Environmental Dynamic. Approximately 8,950 tons of contaminated soil will be transported off-site to Candelaria Environmental for bioremediation. The objectives of this remedial action were set forth in the final OU# 1 Record of Decision (ROD).

Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	OU-3 Not reported Remedial Action Plan 09/14/1995 RAP OU#3: This ROD/RAP presents the remedial alternative selected to remediate soil and groundwater that is contaminated with petroleum hydrocarbons and solvent beneath Operable Unit #3 (OU#3). OU#3, which encompasses the former Panero Fueling facility, is located on the aircraft apron, between the flightline shops and the taxiway. The major components of the selected alternative include: 1. Institutional control, including fencing, site use restriction, and deed restriction of groundwater use. 2. Quarterly groundwater monitoring. 3. Continued free product recovery. 4. Soil remediation using soil vapor extracion and bioventing. 5. Groundwater source remediation using surfactant and in-situ bioremediation. 6. Groundwater dissolved plume treatment using groundwater pump and treat (Air Strippers) system. The remedy is estimated to achieve cleanup goals within 30 years. Approximate cost: \$22,251,655.00
Completed Area Name:	OU 1

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

`	ON AIR REDERVE DADE (O		010
	Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	STE34 Removal Action Completion Report 07/11/1996 Not reported	
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	OU 1 STE34 Operation and Maintenance Report 07/11/1996 O&N - SITE 34: An area near the oil/water separator, which was improperly installed and is adjacent to Site 34, has been identified as a potential source of the mainly hydrocarbon contamination further to the northwest. In March 1994 the AF installed and began the operation of a bioventing treatability study project at Site 34 to determine the effectiveness of bioventing at this site. This study was completed in July 1996 and successfully demonstrated the effectiveness of bioventing for this site. The Operation and Maintenance (O&M) phase will consist of monthly checks of the bioventing system, completion of operation/maintenance/repair manuals and respiration tests every 6 months of operation. In addition, oxygen, carbon dioxide and hydrocarbon concentrations from the vapor monitoring wells will be monitored on a monthly basis. The O&M of the bioventing system will be performed for a duration of one year after installation and start-up. Data collected from the monthly monitoring is evaluated and used as the basis for adjusting the air flow into the subsurface. Preventive equipment maintenance tasks, in accordance with the manufacturers recommendations, will be performed along with routing maintenance and record keeping activities. Status reports will be prepared and submitted as required for satisfactory operating control and regulatory compliance requirements. Qualified supervisory personnel will oversee execution of the O&M tasks to minimize costs, and ensure timely and accurate operating reports. 'DES -SITE 34: The design of the bioventing system was included in the treatability study document. A Remedial Action Workplan was submitted in July 1996 that considered bioventing the final remedial alternative at Site 34. This is consistent with the Operable Unit #1 (OU#1) signed Record of Decision (ROD). The primary advantage in using bioventing is the process of delivering oxygen by forced air into the soil to stimulate or enhance the natural biodegradation	

EDR ID Number Database(s) EPA ID Number

MARCH AIR RESERVE BASE (Continued) site, and to monitor that the bioremedial approach is achieving groundwater protection standards as established in the OU#1 Record of Decision (ROD). Completed Area Name: OU-3 Completed Sub Area Name: Not reported Completed Document Type: **Remedial Action Plan** Completed Date: 11/13/1996 RAP - OU#3(SITE 33): This Decision Document (DD), which is equivilant Comments: to a Remedial Action Plan (RAP), presents the selected Removal Action upgrade for March Air Reserve Base (MARB) Operable Unit #3 pump and Treat System. This removal action upgrade is selected to increase jet fuel (JP-4) free product recovery rates at OU#3. The State of California, both DTSC and the Santa Ana Regional Water Quality Control Board (RWQCB), signed a Record of Decision (ROD) for OU#3 in September 1995. However, the US Environmental Protection Agency(USEPA) and the Air Force Reserves (AFRs) declined to sign the ROD at the last minute; the USEPA invoking the petroleum exclusion section of CERCLA and the AFRs stating that the preferred alternative in the ROD is too expensive. Therefore, after considerable efforts, all parties agreed to expand and upgrade the existing free product recovery system as an interim remedy for the JP-4 free product beneath OU#3. This action addresses only JP-4 free product and does not address all contamination remaining at the site. the DD went through the RAP requirement of public review and comment. Completed Area Name: PCAS Completed Sub Area Name: STE18 Completed Document Type: **Removal Action Completion Report** Completed Date: 04/07/1999 Comments: Not reported Completed Area Name: OU2 Completed Sub Area Name: STE39 Completed Document Type: **Removal Action Completion Report** Completed Date: 03/12/1999 Comments: Not reported OU2 Completed Area Name: Completed Sub Area Name: STE39 Completed Document Type: * Remedial or Removal Design Completed Date: 02/23/1999 Comments: Not reported Completed Area Name: OU2 Completed Sub Area Name: STE36 Completed Document Type: **Operation and Maintenance Report** Completed Date: 02/07/2000 Comments: Site 36 - OM: A dual phase extraction system, which combines soil vapor extraction with groundwater extraction, is in operation at site 36. This document contains the Operation and Maintenance (O&M) procedures relating to operation and maintenance activities to be conducted at Site 36. Completed Area Name: OU2 STE36 Completed Sub Area Name: Completed Document Type: **Removal Action Completion Report**

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

ARCH AIR RESERVE BASE (Continued) S10		
Completed Date: Comments:	05/26/1999 Not reported	
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PCAS STE18 * Remedial or Removal Design 07/21/1998 Not reported	
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	OU2 Not reported Remedial Investigation Workplan 08/26/2005 Although there are unresolved issues, DTSC agrees the finalization of the work plan and leaves comments on fate and transport of VOCs and on off-base migration of VOC plumes to be discussed/disputed when the RI report becomes available.	
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	OU 1 EGETS Operation and Maintenance Report 10/04/2006 The 1st Quarter 2006 OU1 Process Monitoring report is finalized	
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	OU 1 EGETS Operation and Maintenance Report 12/27/2007 As a secondary document, no comment letter is required.	
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PCAS SITE2 Operation and Maintenance Report 02/05/2007 routine monitoring report	
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PCAS STE18 Operation and Maintenance Report 02/05/2007 routine monitoring report	
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PCAS STE27 Operation and Maintenance Report 02/05/2007 routine monitoring report	
Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PCAS STE33 Operation and Maintenance Report 02/05/2007 Routine monitoring report reviewed by RWQCB	
Completed Area Name: Completed Sub Area Name: Completed Document Type:	OU2 Not reported Remedial Action Plan	

EDR ID Number Database(s) EPA ID Number

MARCH AIR RESERVE BASE (Continued)

ARCH AIR RESERVE BASE (Continued) S1042			S104241
	Completed Date: Comments:	09/29/2005 DTSC has concurred with the OU2A ROD of March Air Reserve Base. Th OU2A ROD addresses Sites 1, 11, 37, and 39. The key provisions of this ROD include institutional controls for Sites 1 and 11 where residual PAHs exist in the soil that are incompatible with unrestricted land use. The Air Force agreed to incorporate institutional control provisions into the base master plan. In case of base closure, the AF will require the purchasers to enter into State land Use Covenants with DTSC as a condition of land transfer. Sites 37 and 39 require no further actions.	e
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	OU 1 STE34 * Remedial or Removal Design 07/11/1996 Not reported	
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PCAS STE33 * Remedial or Removal Design 07/08/1996 Not reported	
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	OU 1 Not reported Application 10/30/2007 Not reported	
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported 5 Year Review Reports 09/02/2009 5 year review report accepted	
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported Monitoring Report 06/08/2010 The report may be finalized	
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	OU 1 EGETS Operations and Maintenance Plan Amendment 01/06/2011 DTSC sent a no-comment letter.	
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date: Comments:	PROJECT WIDE Not reported Monitoring Report 04/19/2011 Secondary document, no approval required.	
	Completed Area Name: Completed Sub Area Name: Completed Document Type: Completed Date:	OU2 SITE8 Pilot/Treatability Study Report 03/29/2012	

MARCH AIR RESERVE BASE (Continued)

MAP FINDINGS

EDR ID Number Database(s) EPA ID Number

Comments: Data to be used in Sites 8 & 36 FFS PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Monitoring Report Completed Date: 05/08/2014 Comments: secondary document for groundwater monitoring data PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Fact Sheets Completed Date: 08/01/2004 Comments: Not reported PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: Fact Sheets Completed Date: 08/01/2003 Comments: Not reported Completed Area Name: OU 1 Completed Sub Area Name: Not reported Completed Document Type: Record of Decision w/ESD Completed Date: 01/29/2014 Comments: The remedy for site soil has been changed to excavation and disposal Completed Area Name: OU 1 Completed Sub Area Name: FT29 Completed Document Type: **Remedial Investigation Report** Completed Date: 08/20/2013 Comments: Not reported Completed Area Name: OU 1 Completed Sub Area Name: Not reported Operation and Maintenance Plan Completed Document Type: Completed Date: 08/19/2013 Comments: Not reported PROJECT WIDE Completed Area Name: Completed Sub Area Name: Not reported Completed Document Type: **Remedial Action Plan** Completed Date: 08/19/2013 Comments: Not reported Completed Area Name: * BASEWIDE Completed Sub Area Name: Not reported Completed Document Type: Quality Assurance Workplan Completed Date: 08/08/2013 Comments: Accepted on Aug 8, 2013 Completed Area Name: * BASEWIDE Completed Sub Area Name: Not reported Completed Document Type: **Operation and Maintenance Report** Completed Date: 07/16/2013 Comments: Not reported Completed Area Name: * BASEWIDE

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)		
Completed Sub Area Name:	Not reported	
Completed Document Type:	Monitoring Report	
Completed Date:	12/18/2013	
Comments:	Not reported	
Completed Area Name:	OU 5	
Completed Sub Area Name:	Site 49	
Completed Document Type:	Monitoring Report	
Completed Date:	08/21/2014	
Comments:	Not reported	
Completed Area Name:	OU 5	
Completed Sub Area Name:	Site 49	
Completed Document Type:	Monitoring Report	
Completed Date:	08/05/2015	
Comments:	Not reported	
Completed Area Name:	OU 5	
Completed Sub Area Name:	Site 49	
Completed Document Type:	Monitoring Report	
Completed Date:	04/27/2017	
Comments:	Not reported	
Completed Area Name:	OU 5	
Completed Sub Area Name:	Site 49	
Completed Document Type:	Record of Decision	
Completed Date:	05/30/2019	
Comments:	Not reported	
Completed Area Name:	PROJECT WIDE	
Completed Sub Area Name:	Not reported	
Completed Document Type:	Land Use Restriction Monitoring Report	
Completed Date:	03/12/2014	
Comments:	Not reported	
Completed Area Name:	OU 5	
Completed Sub Area Name:	Site 49	
Completed Document Type:	Site Characterization Workplan	
Completed Date:	01/06/2016	
Comments:	Not reported	
Completed Area Name:	OU 1	
Completed Sub Area Name:	EGETS	
Completed Document Type:	Operation and Maintenance Report	
Completed Date:	06/10/2015	
Comments:	Not reported	
Completed Area Name:	OU2	
Completed Sub Area Name:	SITE8	
Completed Document Type:	Pilot Study/Treatability Workplan	
Completed Date:	11/12/2015	
Comments:	Not reported	
Completed Area Name:	OU 5	
Completed Sub Area Name:	Site 49	
Completed Document Type:	Remedial Investigation / Feasibility Study	
Completed Date:	09/21/2017	

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments:	Not reported
Completed Area Name:	OU 1
Completed Sub Area Name:	SIT31
Completed Document Type:	Record of Decision
Completed Date:	05/30/2019
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Record of Decision - Amendment
Completed Date:	06/22/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Work Plan
Completed Date:	11/10/2016
Comments:	Not reported
Completed Area Name:	OU 1
Completed Sub Area Name:	FT29
Completed Document Type:	Remedial Investigation Report
Completed Date:	07/13/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Report
Completed Date:	08/03/2017
Comments:	Not reported
Completed Area Name:	OU 1
Completed Sub Area Name:	EGETS
Completed Document Type:	Quality Assurance Workplan
Completed Date:	01/03/2018
Comments:	Not reported
Completed Area Name:	OU2
Completed Sub Area Name:	STE 1
Completed Document Type:	Remedial Action Completion Report
Completed Date:	04/24/2018
Comments:	Not reported
Completed Area Name:	OU 1
Completed Sub Area Name:	FT29
Completed Document Type:	Remedial Action Completion Report
Completed Date:	04/23/2018
Comments:	Not reported
Completed Area Name:	OU 5
Completed Sub Area Name:	Site 49
Completed Document Type:	Proposed Plan
Completed Date:	07/05/2018
Comments:	Not reported
Completed Area Name:	OU 1

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Completed Sub Area Nan Completed Document Typ Completed Date: Comments:			
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Future Area Name: Future Sub Area Name: Future Document Type: Future Due Date: Schedule Area Name: Schedule Sub Area Name Schedule Document Type Schedule Due Date: Schedule Revised Date:			
Calsite: Name: Address: City: Region: Facility ID:	March Air Reserve Base 3,545 ACRES; EAST OF RIVERSIDE RIVERSIDE GLENDALE 33970004		

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

OPEN Facility Type: **OPEN MILITARY BASE** Type: Branch: SO Branch Name: **OMF-SOUTHERN CALIF** File Name: Not reported State Senate District: 07131998 ANNUAL WORKPLAN (AWP) - ACTIVE SITE Status: Status Name: ANNUAL WORKPLAN - ACTIVE SITE ENVIRONMENTAL PROTECTION AGENCY Lead Agency: NPL: Listed SIC Code: 97 NATIONAL SECURITY/INTERNATIONAL AFFAIRS SIC Name: Access: Not reported Cortese: Not reported Hazardous Ranking Score: Not reported Date Site Hazard Ranked: Not reported Groundwater Contamination: Confirmed SNIOU Staff Member Responsible for Site: Supervisor Responsible for Site: Not reported Region Water Control Board: SA Region Water Control Board Name: SANTA ANA Lat/Long Direction: Not reported Lat/Long (dms): 000/000 Lat/long Method: Not reported Lat/Long Description: Not reported State Assembly District Code: 62 State Senate District Code: 32 Facility ID: 33970004 Activity: RAP REMEDIAL ACTION PLAN / RECORD OF DECISION Activity Name: AWP Code: OU2 Proposed Budget: 0 AWP Completion Date: 12312004 Revised Due Date: 06302006 Not reported Comments Date: Est Person-Yrs to complete: 0 Not reported Estimated Size: Request to Delete Activity: Not reported AWP Activity Status: ANNUAL WORKPLAN - ACTIVE SITE Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Not reported Well Decommissioned: Not reported Action Included Fencing: **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: DES Activity Name: DESIGN AWP Code: STE34 Proposed Budget: 0 AWP Completion Date: 07111996

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Revised Due Date: Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Request to Delete Activity: Activity Status: AWP Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: Activity: DES Activity Name: DESIGN AWP Code: STE33 Proposed Budget: 0 AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Request to Delete Activity: Activity Status: AWP Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Well Decommissioned: Action Included Fencing: Removal Action Certification: Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 0 For Residential Reuse: Unknown Type: 0 Facility ID: Activity: OM Activity Name: AWP Code: PANER Proposed Budget: 0 AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Request to Delete Activity: Activity Status: AWP Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0

Not reported 07111996 Not reported Not reported ANNUAL WORKPLAN - ACTIVE SITE Not reported Not reported Not reported Not reported Not reported 33970004 07081996 Not reported 07081996 Not reported Not reported ANNUAL WORKPLAN - ACTIVE SITE Not reported Not reported Not reported Not reported Not reported 33970004 **OPERATION & MAINTENANCE** 06171996 Not reported 06171996 Not reported Not reported ANNUAL WORKPLAN - ACTIVE SITE

Map ID Direction Distance Elevation Site MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

Action Included Capping: Not reported Not reported Well Decommissioned: Action Included Fencing: Not reported Removal Action Certification: Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: OM **OPERATION & MAINTENANCE** Activity Name: AWP Code: SIT31 Proposed Budget: 0 AWP Completion Date: 05081996 Revised Due Date: Not reported Comments Date: 05081996 Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP ANNUAL WORKPLAN - ACTIVE SITE Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: DES Activity Name: DESIGN AWP Code: SIT31 Proposed Budget: 0 AWP Completion Date: 05081996 Not reported Revised Due Date: 05081996 Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP ANNUAL WORKPLAN - ACTIVE SITE Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Well Decommissioned: Not reported Not reported Action Included Fencing: **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0

Database(s)

EDR ID Number **EPA ID Number**

S104241831 Facility ID: 33970004 Activity: RA Activity Name: **REMOVAL ACTION** AWP Code: SIT11 Proposed Budget: 0 AWP Completion Date: 05011996 Revised Due Date: Not reported 05011996 Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 380 Liquids Treated (Gals): 0 Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported **Removal Action Certification:** Ν CONTAMINATED SOIL REMOVED AND STOCKPILED AT SITE 15 FOR REMEDIATION Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 33970004 Facility ID: Activity: RIFS Activity Name: **REMEDIAL INVESTIGATION / FEASIBILITY STUDY** AWP Code: STE 1 Proposed Budget: 0 AWP Completion Date: 03251996 Revised Due Date: Not reported Comments Date: 03251996 Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: RIFS **REMEDIAL INVESTIGATION / FEASIBILITY STUDY** Activity Name: AWP Code: STE 9 Proposed Budget: 0 AWP Completion Date: 03251996 Revised Due Date: Not reported 03251996 Comments Date: Est Person-Yrs to complete: 0

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Estimated Size: Not reported Not reported Request to Delete Activity: Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Not reported Well Decommissioned: Action Included Fencing: Not reported **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: DES Activity Name: DESIGN AWP Code: STE10 Proposed Budget: 0 AWP Completion Date: 02021996 Revised Due Date: Not reported Comments Date: 02021996 Est Person-Yrs to complete: 0 Estimated Size: Not reported Not reported Request to Delete Activity: Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported **Removal Action Certification:** Not reported Not reported Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 33970004 Facility ID: Activity: DES Activity Name: DESIGN AWP Code: STE15 Proposed Budget: 0 AWP Completion Date: 02021996 Revised Due Date: Not reported Comments Date: 02021996 Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE 0 Liquids Removed (Gals): Liquids Treated (Gals): 0 Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported

Database(s)

EDR ID Number **EPA ID Number**

MARCH AIR RESERVE BASE (Continued)

Removal Action Certification: Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 33970004 Facility ID: Activity: RAP Activity Name: AWP Code: OU-3 Proposed Budget: 0 AWP Completion Date: 09141995 Revised Due Date: Comments Date: 09141995 Est Person-Yrs to complete: Estimated Size: Request to Delete Activity: AWP Activity Status: Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Well Decommissioned: Action Included Fencing: Removal Action Certification: Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 33970004 Facility ID: Activity: RA Activity Name: AWP Code: STE34 Proposed Budget: 0 AWP Completion Date: 07111996 Revised Due Date: Comments Date: 07111996 Est Person-Yrs to complete: 0 Estimated Size: Request to Delete Activity: Activity Status: AWP Definition of Status: 0 Liquids Removed (Gals): Liquids Treated (Gals): 0 Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 0 For Residential Reuse: Unknown Type: 0 Facility ID: 33970004 Activity: OM Activity Name: **OPERATION & MAINTENANCE**

Not reported Not reported REMEDIAL ACTION PLAN / RECORD OF DECISION Not reported Not reported Not reported ANNUAL WORKPLAN - ACTIVE SITE Not reported Not reported Not reported Not reported Not reported **REMOVAL ACTION** Not reported Not reported Not reported ANNUAL WORKPLAN - ACTIVE SITE Not reported Not reported Not reported Not reported Not reported

Database(s)

EDR ID Number **EPA ID Number**

MARCH AIR RESERVE BASE (Continued)

AWP Code:

STE34 0 07111996 Not reported 07111996 0 Not reported Not reported AWP ANNUAL WORKPLAN - ACTIVE SITE 0 0 Not reported Not reported Not reported Not reported Not reported 0 0 0 0 33970004 RAP REMEDIAL ACTION PLAN / RECORD OF DECISION OU-3 0 11131996 Not reported 11131996 0 Not reported Not reported AWP ANNUAL WORKPLAN - ACTIVE SITE 0 0 Not reported Not reported Not reported

S104241831

Proposed Budget: AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: Estimated Size: Request to Delete Activity: Activity Status: Definition of Status: Liquids Removed (Gals): Liquids Treated (Gals): Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Activity Comments: For Commercial Reuse: For Industrial Reuse: For Residential Reuse: Unknown Type: Facility ID: Activity: Activity Name: AWP Code: Proposed Budget: AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: Estimated Size: Request to Delete Activity: Activity Status: Definition of Status: Liquids Removed (Gals): Liquids Treated (Gals): Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: RA **REMOVAL ACTION** Activity Name: AWP Code: SITEB Proposed Budget: 0 AWP Completion Date: 04102000 Revised Due Date: Not reported 04102000 Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP

Map ID Direction Distance Elevation Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported Removal Action Certification: Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 33970004 Facility ID: Activity: RA Activity Name: **REMOVAL ACTION** AWP Code: SITE8 Proposed Budget: 0 AWP Completion Date: 12312006 Revised Due Date: Not reported Not reported Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported Removal Action Certification: Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 0 For Residential Reuse: Unknown Type: 0 Facility ID: 33970004 Activity: RA **REMOVAL ACTION** Activity Name: AWP Code: STE18 Proposed Budget: 0 AWP Completion Date: 04071999 Revised Due Date: Not reported 04071999 Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Not reported Well Decommissioned: Action Included Fencing: Not reported **Removal Action Certification:** Ν Activity Comments: GROUNDWATER LEVELS ARE DEPRESSED TO EXPOSE CONTAMINATED SATURATED SOIL FOR CLEANUP BY COMBINED SOIL VAPOR EXTRACTION, AND SOIL AERATION/BIO-

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

For Commercial Reuse: For Industrial Reuse: For Residential Reuse: Unknown Type: Facility ID: Activity: Activity Name: AWP Code: Proposed Budget: AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: Estimated Size: Request to Delete Activity: Activity Status: Definition of Status: Liquids Removed (Gals): Liquids Treated (Gals): Action Included Capping: Well Decommissioned: Action Included Fencina: **Removal Action Certification:** Activity Comments: For Commercial Reuse: For Industrial Reuse: For Residential Reuse: Unknown Type: Facility ID: Activity: Activity Name: AWP Code: Proposed Budget: AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: Estimated Size: Request to Delete Activity: Activity Status: Definition of Status: Liquids Removed (Gals): Liquids Treated (Gals): Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Activity Comments: For Commercial Reuse: For Industrial Reuse: For Residential Reuse: 0 Unknown Type: 0

Facility ID:

Activity:

VENTING. SVE = 137 SCFM 0 0 0 0 33970004 OM **OPERATION & MAINTENANCE** SITE8 0 12312005 06302007 Not reported Not reported Not reported AWP ANNUAL WORKPLAN - ACTIVE SITE 0 0 Not reported Not reported Not reported Not reported Not reported 0 0 0 0 33970004 RA REMOVAL ACTION STE39 0 03121999 Not reported 03121999 0 Not reported Not reported AWP ANNUAL WORKPLAN - ACTIVE SITE 3000 3000 Not reported Not reported Not reported Ν A BIOVENTING (AIR INJECTION) WELL, TWO BIOVENTING MONITORING PROBES, CONVEYANCE PIPING, AN AIR BLOWER, AND MECHANICAL AND ELECTRICAL APPURTENANCES. 1 0

33970004

DES

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Activity Name: DESIGN AWP Code: STE39 Proposed Budget: 0 AWP Completion Date: 02231999 Revised Due Date: Not reported Comments Date: 02231999 Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP ANNUAL WORKPLAN - ACTIVE SITE Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Not reported Well Decommissioned: Action Included Fencing: Not reported **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 0 For Industrial Reuse: For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: DES DESIGN Activity Name: AWP Code: SITE8 Proposed Budget: 0 AWP Completion Date: 12312004 Revised Due Date: 12312006 Comments Date: Not reported Est Person-Yrs to complete: 0 Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Not reported Well Decommissioned: Action Included Fencing: Not reported **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 0 For Residential Reuse: Unknown Type: 0 Facility ID: 33970004 Activity: OM Activity Name: **OPERATION & MAINTENANCE** AWP Code: STE36 Proposed Budget: 0 AWP Completion Date: 02072000 Revised Due Date: Not reported Comments Date: 02072000 Est Person-Yrs to complete: 0 Not reported Estimated Size: Request to Delete Activity: Not reported

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
	0
Unknown Type:	-
Facility ID:	33970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	STE36
Proposed Budget:	0
AWP Completion Date:	05261999
Revised Due Date:	Not reported
Comments Date:	05261999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Ν
Activity Comments:	INSTALLATION OF A GROUNDWATER EXTRACTION AND TREATMENT SYSTEM IN
	COMBINATION WITH A SYSTEM FOR SOIL VAPOR EXTRACTION(SVE).
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	33970004
Activity:	DES
Activity Name:	DESIGN
AWP Code:	STE18
Proposed Budget:	0
AWP Completion Date:	07211998
Revised Due Date:	Not reported
Comments Date:	07211998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

Database(s)

EDR ID Number EPA ID Number

Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 33970004 Facility ID: CERT Activity: CERTIFICATION Activity Name: AWP Code: STE33 Proposed Budget: 0 AWP Completion Date: 12312007 Revised Due Date: Not reported Comments Date: Not reported Est Person-Yrs to complete: Estimated Size: Not reported Request to Delete Activity: Not reported Activity Status: AWP ANNUAL WORKPLAN - ACTIVE SITE Definition of Status: Liquids Removed (Gals): 0 0 Liquids Treated (Gals): Action Included Capping: Not reported Well Decommissioned: Not reported Action Included Fencing: Not reported **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: CERT Activity Name: CERTIFICATION AWP Code: STE27 Proposed Budget: 0 12312006 AWP Completion Date: Revised Due Date: Not reported Not reported Comments Date: Est Person-Yrs to complete: 0 Not reported Estimated Size: Not reported Request to Delete Activity: Activity Status: AWP Definition of Status: ANNUAL WORKPLAN - ACTIVE SITE Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Not reported Not reported Well Decommissioned: Action Included Fencing: Not reported **Removal Action Certification:** Not reported Activity Comments: Not reported For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: 33970004 Activity: CERT Activity Name: CERTIFICATION AWP Code: SITE8

Database(s)

EDR ID Number EPA ID Number

Proposed Budget: 0 AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Request to Delete Activity: Activity Status: Definition of Status: Liquids Removed (Gals): 0 Liquids Treated (Gals): 0 Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: Activity: Activity Name: AWP Code: Proposed Budget: 0 AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Request to Delete Activity: Activity Status: Definition of Status: Liquids Removed (Gals): 0 0 Liquids Treated (Gals): Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Activity Comments: For Commercial Reuse: 0 For Industrial Reuse: 0 For Residential Reuse: 0 Unknown Type: 0 Facility ID: Activity: Activity Name: AWP Code: Proposed Budget: 0 AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: 0 Estimated Size: Request to Delete Activity: Activity Status: Definition of Status:

12312006 Not reported Not reported Not reported Not reported AWP ANNUAL WORKPLAN - ACTIVE SITE Not reported Not reported Not reported Not reported Not reported 33970004 CERT CERTIFICATION SITE2 12312006 Not reported Not reported Not reported Not reported AWP ANNUAL WORKPLAN - ACTIVE SITE Not reported Not reported Not reported Not reported Not reported 33970004 CERT CERTIFICATION B2307 06302007 Not reported Not reported Not reported Not reported AWP ANNUAL WORKPLAN - ACTIVE SITE

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Liquids Removed (Gals): 0 Liquids Treated (Gals): Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Activity Comments: For Commercial Reuse: For Industrial Reuse: For Residential Reuse: Unknown Type: Facility ID: Activity: Activity Name: AWP Code: Proposed Budget: AWP Completion Date: Revised Due Date: Comments Date: Est Person-Yrs to complete: Estimated Size: Request to Delete Activity: Activity Status: Definition of Status: Liquids Removed (Gals): Liquids Treated (Gals): Action Included Capping: Well Decommissioned: Action Included Fencing: **Removal Action Certification:** Activity Comments: For Commercial Reuse: For Industrial Reuse: For Residential Reuse: Unknown Type: Alternate Address: Alternate City, St, Zip: Alternate Address: Alternate City, St, Zip: Alternate Address: Alternate City, St, Zip: Background Info:

0 Not reported Not reported Not reported Not reported Not reported 0 0 0 0 33970004 CERT CERTIFICATION STE18 0 12312007 Not reported Not reported 0 Not reported Not reported AWP ANNUAL WORKPLAN - ACTIVE SITE 0 0 Not reported Not reported Not reported Not reported Not reported 0 0 0 0 2374 ACRES; EAST OF RIVERSIDE RIVERSIDE, CA 92518 2990 GRAEBER STREET MORENO VALLEY, CA 92518 3,545 ACRES; EAST OF RIVERSIDE RIVERSIDE, CA 92518 This facility is an active U.S. Air Reserve Base part of the the Air Mobility Command (AMC). The Base's mission is to maintain an effective air to air refueling operation capability. Operations at the Base include: maintenance and repair of air- craft, vehicl es and equipment; operation of a photo lab and printing plant; an d fuel management. March AFB has historically generated the follo wing hazardous wastes: petroleum, oil and lubricants (POLs), chlo rinated and nonclorinated solvents, corrosives, antifreeze, paint and paint strippers, carbon removers and photographic chemicals. Past activities which have resulted in contamination at the base include burning waste in fire fighting training exercises and di scharges to sanitary sewers and storm drains. Groundwater has bee n contaminated with trichloroethylene (TCE). Groundwater is the p rimary source of potable water in this area. There is a potential for contamination of soils and surface water. This base was incl uded on the NPL in 1989. A Federal Facilities Agreement (FFA) was

EDR ID Number Database(s) EPA ID Number

MARCH AIR RESERVE BASE (Continued)

	signed between EPA, DHS, the Santa Ana RWQCB and the Air Force i n September 1990, to provide for the remediation of the Base. The Base has been divided into three groups, or operable units, whic h are similar to the State's removal actions, for remediation. Th ese groups are: 1) ground- water and soil for areas along the eas t boundary and off base plume, 2) groundwater and soil for areas not included in units 1 & 3, and 3) groundwater and soil in area 33.
Comments Date:	02021996
Comments:	the final OU#1 Record of Decision (ROD). Approximately 15 cubic y
Comments Date:	02021996
Comments:	ards of sediment material will be removed from the concrete-lined
Comments Date:	02021996
Comments:	channel and transported off-site to Candelaria Environmental for
Comments Date:	02021996
Comments: Comments Date:	bioremediation. DES - SITE 15: This is also part of OU#1. The 07241998
Comments:	DES - SITE18: The remediation technology for Site 18 is based
Comments Date:	07241998
Comments:	on depressing the groundwater levels to expose contaminated
Comments Date:	07241998
Comments:	saturated soils for cleanup by combined soil vapor extraction,
Comments Date:	
Comments:	(Fuel Pump Station Building 2202 and Building 2340. These fuel I 05011996
Comments Date: Comments:	ines transport fuels from the fuel storage tanks tot he flight li
Comments Date:	05011996
Comments:	ne to enable refueling of aircraft. Leakage of the fuel line was
Comments Date:	06011999
Comments:	five extraction wells, 2) Constructing a small concrete pad to
Comments Date:	06011999
Comments:	support process equipment. 3) Installing groundwater and vapor
Comments Date: Comments:	06011999 conveyance piping and other necessary equipment to convey soil
Comments Date:	01311996
Comments:	RIFS - SITE L: This EE/CA has been prepared to address a removal
Comments Date:	01311996
Comments:	action proposed for Site L. The swimming pool was converted to a
Comments Date:	01311996
Comments: Comments Date:	waste disposal area for various base wastes including wastes oils 01311996
Comments:	, solvents, asbestos-containing material, and polychlorinated
Comments Date:	01311996
Comments:	biphenyls (PCBs). The primary sources of contamination are the
Comments Date:	01311996
Comments:	drums, transformers, or other bulk containers which may have been
Comments Date: Comments:	01311996 disposed of into the former swimming pool, the secondary source
Comments Date:	01311996
Comments:	of contamination is soil or debris saturated with or containing
Comments Date:	01311996
Comments:	high concentrations of contaminants in the immediate areas
Comments Date:	01311996
Comments:	surrounding the primary source, and the concrete containment of 01311996
Comments Date: Comments:	the swimming pool area is also considered as a possible secondary
Comments Date:	01311996
E E E E E E E E E E E E E E E E E E E	

EDR ID Number Database(s) EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments: source. The actual type and quantity of wastes in the pool are Comments Date: 01311996 Comments: unknown at this time. If the wastes are not currently adequately Comments Date: 01311996 Comments: contained, there is a likelihood that both the subsurface soils Comments Date: 01311996 Comments: and/or groundwater may continue to be impacted by the wastes. Due 01311996 Comments Date: Comments: to the variety of wastes which may be encountered and the Comments Date: 01311996 Comments: differences in treating or disposing of those wastes, a 01311996 Comments Date: Comments: combination of alternatives is proposed. Comments Date: 02021996 DES - SITE 10: This is part of OU#1. The drainage channel, which Comments: Comments Date: 02021996 was installed prior to 1940, has reportedly received various oils Comments: Comments Date: 02021996 Comments: , hydraulic fluids, diesel fuel, jet fuel, waste paints, paint s Comments Date: 02021996 trippers, paint thinners, battery acids and solvents. The draina Comments: Comments Date: 02021996 Comments: ge channel is concretelined (since the 1960s) up to the eastern b Comments Date: 02021996 Comments: oundary of the base where it discharges to the Perris Valley stor Comments Date: 02021996 Comments: m drain. The objectives of this remediation of contaminated sedi Comments Date: 02021996 Comments: ment from Site 10, pursuant to the cleanup criteria set forth in Comments Date: 02021996 Comments: Fire Training Area (FTA), Site 15, was developed in 1978 and was Comments Date: 02021996 reportedly constructed by placing an underdrain system and grave Comments: Comments Date: 02021996 I over a clay liner. Firefighting water, solutions of Aqueous Fil Comments: Comments Date: 02021996 Comments: m Forming Form (AFFF) and residual fuel used during training exer Comments Date: 02021996 Comments: cises were drained to a formely unlined water holding pond locate Comments Date: 02021996 d adjacent to the FTA. Approximately 6000 gallons per year of co Comments: Comments Date: 02021996 Comments: ntaminated JP-4 have been burned in training exercises since the Comments Date: 02021996 Comments: facility was constructed in 1978. The primary contaminants of co Comments Date: 02021996 ncern are Benzene, Naphthalene, 2-Methylnaphthalene and Phenanthr Comments: Comments Date: 02021996 Comments: ene. The remedial actions for Site 15 will require the handling 02021996 Comments Date: of two streams; the evaporation pond water and soils contaminated Comments: Comments Date: 02021996 Comments: with PAHs. Approximately 4,500 gallons of water, from the evapo Comments Date: 02021996 Comments: ration pond, will be transferred to a base sewer inlet located on Comments Date: 02021996 e-half mile from Site 15 using a 5,000-gallon vacuum truck suppli Comments:

Database(s) EPA ID

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MARCH AIR RESERVE BASE (Continued)

Comments Date: 02021996 ed by Environmental Dynamic. Approximately 8,950 tons of contami Comments: Comments Date: 02021996 Comments: nated soil will be transported off-site to Candelaria Environment Comments Date: 02021996 Comments: al for bioremediation. The objectives of this remedial action we Comments Date: 02021996 re set forth in the final OU# 1 Record of Decision (ROD). Comments: Comments Date: 02072000 Comments: to be conducted at Site 36. Comments Date: 02072000 Site 36 - OM: A dual phase extraction system, which combines soi Comments: Comments Date: 02072000 I vapor extraction with groundwater extraction, is in operation a Comments: Comments Date: 02072000 Comments: t site 36. This document contains the Operation and Maintenance 02072000 Comments Date: (O&M) procedures relating to operation and maintenance activities Comments: Comments Date: 02241999 Comments: DES - Site 39: The remedial design objective for Site 39 is to Comments Date: 02241999 Comments: reduce the contaminant concentrations in the subsurface soil and Comments Date: 02241999 prevent further degradation of groundwater through contaminant Comments: Comments Date: 02241999 migration. The remedial system will include the installation of Comments: Comments Date: 02241999 Comments: a soil bioventing system. The system will be comprised of a Comments Date: 02241999 Comments: bioventing (air injection) well, two bioventing monitoring Comments Date: 02241999 Comments: proves, conveyance piping, an air blower, and mechanical and Comments Date: 02241999 Comments: mechanical and electrical appurtenances. The estimated remedial Comments Date: 02241999 time is 2 years and the volume of soil to be treated is approx. Comments: Comments Date: 02241999 Comments: 3000 cubic yards. Comments Date: 03251996 RIFS - SITE 9: The removal of the OW/S will eliminate a potential Comments: Comments Date: 03251996 Comments: source area for groundwater contamination in the future. This S Comments Date: 03251996 Comments: ite Specific Action Memorandum was prepared to evaluate and ident 03251996 Comments Date: Comments: ify the most effective remedial alternative to remove the OW/S an Comments Date: 03251996 Comments: d dispose of the expected 100 cubic yards of oil contaminated soi Comments Date: 03251996 I. On-base consolidation with Site 6 lined waste cell provides t Comments: Comments Date: 03251996 Comments: he maximum level of regulatory compliance within the lowest cost Comments Date: 03251996 level and is compatible with land use. Site 9 is recommended for Comments: Comments Date: 03251996 Comments: military reuse under the Joint Power Authority preferred alterna 03251996 Comments Date:

EDR ID Number Database(s)

EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments: tive. Site 9 vicinity may potentially have Beechy's Squirrel and Comments Date: 03251996 Burrowing Owl, but excavation activities will be focused on the Comments: Comments Date: 03251996 Comments: OW/S. No potential wetlands are located in Site 9 vicinity. RIF Comments Date: 03251996 Comments: S - SITE 1: Soil sampling at Site 1 detected polycyclic aromatic 03251996 Comments Date: Comments: hydrocarfons (PAHs) as contaminant of concerns. Ground- water sam Comments Date: 03251996 ples detected metals; however, only manganese was detected above Comments: 03251996 Comments Date: Comments: US Environmental Protection Agency Preliminary remediation Goals Comments Date: 03251996 Comments: (PRGs). Soil from Site 1 was excavated during construction of th Comments Date: 03251996 e Air National Guard Alert Facility. Approximately, 3,100 cubic y Comments: Comments Date: 03251996 Comments: ards of PAH contaminated soil has been stockpiled on-site under p Comments Date: 03251996 lastic sheeting pending disposal. The risk assessment for Site 1 Comments: Comments Date: 03251996 Comments: determined that no human health risk was present at the site beca Comments Date: 03251996 Comments: use the exposure pathway was limited. Now that the soil has been Comments Date: 03251996 Comments: disturbed, the soil stockpiled at Site 1 needs to be removed to p Comments Date: 03251996 Comments: reclude further exposure. This Site Specific Action Memorandum w Comments Date: 03251996 Comments: as prepared to evaluate and identify the most effective disposal Comments Date: 03251996 alternative. The site is planned for Air National Guard use and w Comments: Comments Date: 03251996 ill remain in military use. Site 1 is not a habitat for any enda Comments: Comments Date: 03251996 Comments: ngered species and no perennial wetlands are located in its vicin Comments Date: 03251996 Comments: ity. Comments Date: 04081999 RA - SITE 18: The construction of the remedial action for Site 18 Comments: Comments Date: 04081999 Comments: was completed on February 23, 1999 and the system started on Comments Date: 04081999 Comments: Friday 26, 1999. The remediation technology for Site 18 is based Comments Date: 04081999 Comments: on depressing the groundwater levels to expose contaminated Comments Date: 04081999 Comments: saturated soils for cleanup by combined soil vapor extraction, and 04081999 Comments Date: soil aeration/bioventing, free product removal by vaporization Comments: Comments Date: 04081999 Comments: and phase separation as necessary, and dissolved through the Comments Date: 04081999 Comments: groundwater pump and treat and by natural attenuation/biochemical Comments Date: 04081999 degradation mechanisms. The extracted groundwater is pre-treated Comments:

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments Date: 04081999 to remove any free product before transfer by pipline to the Site Comments: Comments Date: 04081999 Comments: 31 treatment facility for treatment by granular activated carbon. Comments Date: 04081999 Comments: Any free product is collected via skimmer pump and contained for Comments Date: 04081999 Comments: disposal. A soil vapor extraction and treatment system (thermal Comments Date: 04081999 Comments: oxidizer) unit was installed at site 18 to treat the recovered Comments Date: 04081999 hydrocarbon vapors locally, before discharging to the atmosphere. Comments: Comments Date: 05011996 RA - SITE 11: Site 11 is part of OU#2. It includes an area design Comments: Comments Date: 05011996 Comments: ated as the Liquid Fuels Management, Bulk Storage Facility. The I Comments Date: 05011996 eaking fuel line section was between the tank car unloading dock Comments: Comments Date: 06011999 Comments: vapor and groundwater to the treatment pad. 4)Installing process Comments Date: 06011999 Comments: equipment for treating contaminated soil vapor and groundwater. Comments Date: 06011999 5) Performing system startup including sampling of vapor and Comments: Comments Date: 06011999 groundwater, and system optimization. Comments: Comments Date: 06171996 Comments: O&M Site 33(PANERO): The Site 33 Pump and Treat System (PTS) cons Comments Date: 06171996 Comments: ists of flow equalization tanks, an oil-water separator, air stri Comments Date: 06171996 Comments: pping, thermal oxidation of air stripper off-gas, and granular ac Comments Date: 06171996 Comments: tivated carbon polishing of the air stripper effluent. An interna Comments Date: 06171996 I combustion engine is used to treat vapors recovered by vapor ex Comments: Comments Date: 06171996 Comments: traction of the pumping wells. The PTS is designed to sustain co Comments Date: 06171996 ntinuous operation without direct operator control. Periodic surv Comments: Comments Date: 06171996 Comments: eillance and maintenance will be required to ensure reliable oper Comments Date: 06171996 Comments: ation and compliance with regulatory requirements. Process perfor 06171996 Comments Date: ming monitoring of the vapor and water treatment systems will be Comments: Comments Date: 06171996 Comments: conducted. This includes on-site sampling and tests of the influ Comments Date: 06171996 ent streams, intermittent treatment points and the effluent strea Comments: Comments Date: 06171996 Comments: ms to verify satisfactory operation, and timely change-out of the Comments Date: 06171996 GAC treatment units to maintain regulatory discharge limits and Comments: Comments Date: 06171996 Comments: cost effectiveness. Preventive equipment maintenance tasks, in a Comments Date: 06171996

EDR ID Number Database(s) EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments: ccordance with the manufacturers recommend -ations, will be perfo Comments Date: 06171996 rmed along with routine maintenance and record keeping activities Comments: Comments Date: 06171996 Comments: . Normally, one field technician will be required to perform the Comments Date: 06171996 Comments: routine O&M tasks, including well inspections and maintenance, p Comments Date: 06171996 Comments: ump overhauls, process instrument calibrations, equipment repairs Comments Date: 06171996 and replacements. The manufacturer shall have local service rep Comments: 06171996 Comments Date: Comments: resentatives capable of responding to equipment failures or probl Comments Date: 06171996 ems within 3 hours of initial contact. Comments: Comments Date: 07111996 O&M - SITE 34: An area near the oil/water separator, which was im Comments: Comments Date: 07111996 Comments: properly installed and is adjacent to Site 34, has been identifie Comments Date: 07111996 d as a potential source of the mainly hydrocarbon contamination f Comments: Comments Date: 07111996 Comments: urther to the northwest. In March 1994 the AF installed and bega Comments Date: 07111996 Comments: n the operation of a bioventing treatability study project at Sit 07111996 Comments Date: Comments: e 34 to determine the effectiveness of bioventing at this site. Comments Date: 07111996 Comments: This study was completed in July 1996 and successfully demonstrat Comments Date: 07111996 Comments: ed the effectiveness of bioventing for this site. The Operation a Comments Date: 07111996 nd Maintenance (O&M) phase will consist of monthly checks of the Comments: Comments Date: 07111996 bioventing system, completion of operation/maintenance/repair man Comments: Comments Date: 07111996 Comments: uals and respiration tests every 6 months of operation. In addit Comments Date: 07111996 Comments: ion, oxygen, carbon dioxide and hydrocarbon concentrations from t Comments Date: 07111996 he vapor monitoring wells will be monitored on a monthly basis. T Comments: Comments Date: 07111996 Comments: he O&M of the bioventing system will be performed for a duration Comments Date: 07111996 Comments: of one year after installation and start-up. Data collected from Comments Date: 07111996 Comments: the monthly monitoring is evaluated and used as the basis for ad Comments Date: 07111996 Comments: justing the air flow into the subsurface. Preventive equipment m 07111996 Comments Date: aintenance tasks, in accordance with the manufacturers recommenda Comments: Comments Date: 07111996 Comments: tions, will be performed along with routing maintenance and recor Comments Date: 07111996 Comments: d keeping activities. Status reports will be prepared and submit Comments Date: 07111996 ted as required for satisfactory operating control and regulatory Comments:

Database(s) EF

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments Date: 07111996 compliance requirements. Qualified supervisory personnel will o Comments: Comments Date: 07111996 Comments: versee execution of the O&M tasks to minimize costs, and ensure t Comments Date: 07111996 Comments: imely and accurate operating reports. DES -SITE 34: The design Comments Date: 07111996 Comments: of the bioventing system was included in the treatability study d Comments Date: 07111996 Comments: ocument. A Remedial Action Workplan was submitted in July 1996 t Comments Date: 07111996 hat considered bioventing the final remedial alternative at Site Comments: Comments Date: 07111996 34. This is consistent with the Operable Unit #1 (OU#1) signed R Comments: Comments Date: 07111996 Comments: ecord of Decision (ROD). The primary advantage in using bioventi Comments Date: 07111996 ng is the low cost to install, operate, maintain and monitor the Comments: Comments Date: 07111996 Comments: system as compared to other remediation technology. The treatabi Comments Date: 07111996 Comments: lity study has demonstrated that the bioventing at Site 34 of the Comments Date: 07111996 hydrocarbon contamination is cost effective, has minimal environ Comments: Comments Date: 07111996 mental impact and will achieve the cleanup standards set in the O Comments: Comments Date: 07111996 Comments: U#1 ROD. Bioventing is the process of delivering oxygen by force Comments Date: 07111996 Comments: d air into the soil to stimulate or enhance the natural biodegrad Comments Date: 07111996 Comments: ation process of petroleum hydrocarbon contaminants within the so Comments Date: 07111996 Comments: il. The existing bioventing system at Site 34 was designed with Comments Date: 07111996 excess air injection capacity, therefore, it may be possible to t Comments: Comments Date: 07111996 Comments: ap into this system for use at the adjacent sites. RA - SITE 34 Comments Date: 07111996 : Soil contaminants detected during the RI/FS conducted at Site 3 Comments: Comments Date: 07111996 Comments: 4 include VOCs, SVOCs, Pesticides/PCBs, Oil and Grease, JP-4 and Comments Date: 07111996 Comments: Diesel Fuel. The Air Force (AF) will characterize the newly disc Comments Date: 07111996 Comments: overed contamination at Site 34 using a soil gas survey which wil Comments Date: 07111996 Comments: I provide potential locations for soil borings based on contamina Comments Date: 07111996 nt concentrations. The AF installed and successfully demonstrated Comments: Comments Date: 07111996 Comments: the effectiveness of a bioventing system at this Site. The obje Comments Date: 07111996 Comments: ctives of this remedial action is to determine the extent of the Comments Date: 07111996 Comments: new hydrocarbon contamination at the oil/water separator, to eval Comments Date: 07111996

EDR ID Number Database(s) EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments: uate and select the best approach to biovent the site, and to mon Comments Date: 07111996 itor that the bioremedial approach is achieving groundwater prote Comments: Comments Date: 07111996 Comments: ction standards as established in the OU#1 Record of Decision (RO Comments Date: 07111996 Comments: D). 07241998 Comments Date: Comments: and soil aeration/bioventing, free product removal by vaporiza-Comments Date: 07241998 Comments: tion and phase separation as necessary, and dissolved through the 07241998 Comments Date: groundwater pump and treat and by natural attenuation/biochemical Comments: Comments Date: 07241998 degradation mechanisms. The extracted groundwater would be pre-Comments: Comments Date: 07241998 treated to remove any free product before transfer by pipeline to Comments: Comments Date: 07241998 Comments: the Site 31 treatment facility for treatment by granular acti-Comments Date: 07241998 vated carbon. Any free product would be collected via skimmer Comments: Comments Date: 07241998 Comments: pump and contained for disposal. A soil vapor extraction and Comments Date: 07241998 Comments: treatment system(thermal oxidizer) unit will be installed at site 07241998 Comments Date: Comments: 18 to treat the recovered hydrocarbon vapors locally, before Comments Date: 07241998 Comments: discharging to the atmosphere. Comments Date: 09141995 Comments: RAP OU#3: This ROD/RAP presents the remedial alternative selected Comments Date: 09141995 to remediate soil and groundwater that is contaminated with petr Comments: Comments Date: 09141995 oleum hydrocarbons and solvent beneath Operable Unit #3 (OU#3). O Comments: Comments Date: 09141995 Comments: U#3, which encompasses the former Panero Fueling facility, is loc Comments Date: 09141995 Comments: ated on the aircraft apron, between the flightline shops and the Comments Date: 09141995 taxiway. The major components of the selected alternative include Comments: Comments Date: 09141995 Comments: : 1. Institutional control, including fencing, site use restri Comments Date: 09141995 Comments: ction, and deed restriction of groundwater use. 2. Quarterly grou Comments Date: 09141995 Comments: ndwater monitoring. 3. Continued free product recovery. 4. Soil r Comments Date: 09141995 Comments: emediation using soil vapor extracion and bioventing. 5. Groundwa 09141995 Comments Date: ter source remediation using surfactant and in-situ bioremediatio Comments: Comments Date: 09141995 Comments: n. 6. Groundwater dissolved plume treatment using groundwater pum Comments Date: 09141995 Comments: p and treat (Air Strippers) system. The remedy is estimated to ac Comments Date: 09141995 hieve cleanup goals within 30 years. Approximate cost: \$22,251 Comments:

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

KCH AIR RESERVE BAS	E (Continued)
Comments Date:	09141995
Comments:	,655.00
Comments Date:	11131996
Comments:	RAP - OU#3(SITE 33): This Decision Document (DD), which is equivi
Comments Date:	11131996
Comments:	lant to a Remedial Action Plan (RAP), presents the selected Remov
Comments Date:	11131996
Comments:	al Action upgrade for March Air Reserve Base (MARB) Operable Unit
Comments Date:	11131996
Comments:	#3 pump and Treat System. This removal action upgrade is select
Comments Date:	11131996
Comments:	ed to increase jet fuel (JP-4) free product recovery rates at OU# 11131996
Comments Date: Comments:	3. The State of California, both DTSC and the Santa Ana Regional
Comments Date:	11131996
Comments:	Water Quality Control Board (RWQCB), signed a Record of Decision
Comments Date:	11131996
Comments:	(ROD) for OU#3 in September 1995. However, the US Environmental
Comments Date:	11131996
Comments:	Protection Agency(USEPA) and the Air Force Reserves (AFRs) decli
Comments Date:	11131996
Comments:	ned to sign the ROD at the last minute; the USEPA invoking the pe
Comments Date:	11131996
Comments:	troleum exclusion section of CERCLA and the AFRs stating that the
Comments Date:	11131996
Comments:	preferred alternative in the ROD is too expensive. Therefore, a
Comments Date:	11131996
Comments:	fter considerable efforts, all parties agreed to expand and upgra
Comments Date:	11131996
Comments:	de the existing free product recovery system as an interim remedy
Comments Date:	11131996 for the JP-4 free product beneath OU#3. This action addresses o
Comments: Comments Date:	11131996
Comments:	nly JP-4 free product and does not address all contamination rema
Comments Date:	11131996
Comments:	ining at the site. the DD went through the RAP requirement of pu
Comments Date:	11131996
Comments:	blic review and comment.
Comments Date:	05011996
Comments:	discovered when March AFB personnel noticed a loss in line press
Comments Date:	05011996
Comments:	ure during an integrity test of a section of the line between the
Comments Date:	05011996
Comments:	fuel pump station and the flight line. Visual indications of a
Comments Date:	
Comments:	fuel leak were also observed in and around the concrete valult lo
Comments Date:	05011996
Comments: Comments Date:	cated adjacent to the fuel pump station. The objective of the Imm 05011996
Comments:	ediate Response Action was to remove and replace the leaking sect
Comments Date:	05011996
Comments:	ion of the sub-surface JP-8 fuel line. This was accomplished with
Comments Date:	05011996
Comments:	in a very tight schedule (approx. seven days) to prevent the use
Comments Date:	05011996
Comments:	of outside trucks for delivery of fuels to the aircrafts. The re
Comments Date:	05011996

Database(s) EPA ID Nur

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments: moval action consisted of trenching to expose the sub-surface fue Comments Date: 05011996 I lines and associated vault area including the demolishing and r Comments: Comments Date: 05011996 Comments: emoval of overlaying asphalt and concrete, the removal of a 230 f Comments Date: 05011996 oot of JP-8 fuel line and a 210 foot section of an inactive JP-8 Comments: Comments Date: 05011996 Comments: line was also removed, the placement of a new 8 inch steel JP-8 f Comments Date: 05011996 Comments: uel line and a 12 inch steel road crossing sleeve and reconstruct 05011996 Comments Date: Comments: ion of demolished concrete vault. Approximately, 380 cubic yards Comments Date: 05011996 of contaminated soil was removed and stockpiled at Site 15 for r Comments: Comments Date: 05011996 emediation. Upon getting the new pipe section on-line the general Comments: Comments Date: 05011996 Comments: site area was landscaped and restored to the original condition Comments Date: 05011996 to the extent possible. This included the backfilling maximum dr Comments: Comments Date: 05011996 Comments: y density of the soil, and the replacement of the overlaying asph 05011996 Comments Date: Comments: alt. Comments Date: 05081996 DES - SITE 31: This is part of OU #1. The practice of dis- charg Comments: Comments Date: 05081996 Comments: ing solvents on the ground reportedly occurred from about the mid Comments Date: 05081996 -1950s to the mid-1970s. In addition, floor drains from maintenan Comments: Comments Date: 05081996 Comments: ce shops may have leaked solvents to the subsurface. The primary Comments Date: 05081996 contaminants of concern at Site 31 are Trichloro- ethylene (PCE), Comments: Comments Date: 05081996 Comments: and traces of other chlorinated solvents. The contaminants are Comments Date: 05081996 Comments: contained within the soils and the groundwater and will require r Comments Date: 05081996 emediation to prevent further contamination of the OU#1 groundwat Comments: Comments Date: 05081996 Comments: er. Extensive studies to identify source locations, determine si Comments Date: 05081996 Comments: te characteristics and evaluate cost effective remedial alternati Comments Date: 05081996 Comments: ves have been performed. A dual phase extraction technology coup 05081996 Comments Date: Comments: led with granular activated carbon treatment of extracted groundw Comments Date: 05081996 ater and soil vapor has been selected based on a pilot scale syst Comments: Comments Date: 05081996 Comments: em shown to be a cost- effective method for remediation of this S Comments Date: 05081996 Comments: ite. The treatment system shall discharge treated water that wi Comments Date: 05081996 Il have a daily average concentration of 0.5 ppb TCE or less, and Comments:

Database(s)

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments Date:	05081996
Comments:	never will exceed a concentration of 5 ppb TCE. Treated groundw
Comments Date:	05081996
Comments:	ater will be reinjected into the aquifer combined with discharge
Comments Date:	05081996
Comments:	of excess water to the Heacock Storm drain and/or the base sanita
Comments Date:	05081996
Comments:	ry sewer system, as required. Installation of process equipment,
Comments Date: Comments:	05081996 surface piping and electrical facilities is planned for the end
Comments Date:	05081996
Comments:	of April, and startup of the system July 1996. This remedial act
Comments Date:	05081996
Comments:	ion complies with the statutory preference for remedies as specif
Comments Date:	05081996
Comments:	ied in the Record of Decision (ROD) for OU#1. O&M SITE 31: The
Comments Date:	05081996
Comments:	Site 31 dual phase extraction and treatment system is designed to
Comments Date:	05081996
Comments:	sustain continuous operation without direct operator control. P
Comments Date:	05081996
Comments:	eriodic surveillance and maintenance will be required to ensure r
Comments Date:	05081996
Comments:	eliable operation and compliance with regulatory requirement. Pr
Comments Date:	05081996
Comments:	ocess performing monitoring of the vapor and water treatment syst
Comments Date:	05081996
Comments:	ems will be conducted. This includes on-site sampling and tests
Comments Date:	05081996
Comments:	of the influent streams, intermittent treatment points and the ef
Comments Date: Comments:	05081996 fluent streams to verify satisfactory operation, and timely chang
Comments Date:	05081996
Comments:	e-out of the GAC treat- ment units to maintain regulatory dischar
Comments Date:	05081996
Comments:	ge limits and cost effectiveness. Preventive equipment maintenan
Comments Date:	05081996
Comments:	ce tasks, in accordance with the manufacturers recommendations, w
Comments Date:	05081996
Comments:	ill be performed along with routine maintenance and record keepin
Comments Date:	05081996
Comments:	g activities. It is expected that the carbon change-out frequenc
Comments Date:	05081996
Comments:	y will gradually decrease as the soil and groundwater contaminant
Comments Date:	05081996
Comments:	levels decline with ongoing treatment. Initially the change-out
Comments Date:	05081996
Comments:	s may occur once every 1-2 months and subsequently may decrease t
Comments Date: Comments:	05081996 o once or twice a year for the groundwater treatment system. Norm
Comments Date:	05081996
Comments:	ally, one field technician will be required to perform the routin
Comments Date:	05081996
Comments:	e O&M tasks, including wells inspections and maintenance, pump ov
Comments Date:	05081996
Comments:	erhauls, process instrument calibrations, equipment repairs and r
Comments Date:	05081996

Database(s) E

EDR ID Number EPA ID Number

MARCH AIR RESERVE BASE (Continued)

Comments: eplacements. Status reports along with analytical results and di 05081996 Comments Date: scharge records will be prepared and submitted as reqired for sat Comments: 05081996 Comments Date: Comments: isfactory operating control and regulatory compliance requirement Comments Date: 05081996 Comments: s. Qualified supervisory personnel will oversee execution of the Comments Date: 05081996 Comments: O&M tasks to minimize costs, and ensure timely and accurate oper Comments Date: 05081996 Comments: ating reports. 06011999 Comments Date: Comments: RA - SITE 36: The remedial action for Site 36 was completed on Comments Date: 06011999 Comments: March 15, 1999. It included the installation of a groundwater Comments Date: 06011999 extraction and treatment system in combination with a system for Comments: Comments Date: 06011999 Comments: soil vapor extraction (SVE). A remedial design of this system Comments Date: 06011999 was approved by DTSC on April 7, 1998. The Site 36 system Comments: Comments Date: 06011999 Comments: includes conveyance piping, process vessels, and electrical and Comments Date: 06011999 Comments: mechanical appurtenances. The remedial activities conducted at Comments Date: 06011999 Site 36 included: 1) Installing a submersible pump into each of Comments: ID Name: Not reported ID Value: Not reported ALESSANDRO ARMY AIR FIELD Alternate Name: Alternate Name: Alternate Name: March Air Reserve Base Alternate Name: Not reported Special Programs Code: DSMOA Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

Count: 2 records. ORPHAN SUMMARY		ORPHAN SUMMARY			
City	EDR ID	Site Name	Site Address	Zip	Database(s)
MORENO VALLEY PERRIS	S125638995 S107540243	FUTURE TRUCK TERMINAL	17205 HEACOCK STREET PATTERSON AVE AND MARKMAN ST,	92551 92570	

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: 12/01/2021 Next Scheduled EDR Contact: 01/10/2022 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 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

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: 12/01/2021 Next Scheduled EDR Contact: 01/10/2022 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: 12/01/2021 Next Scheduled EDR Contact: 01/10/2022 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	Source
Date Data Arrived at EDR: 06/24/2021	Teleph
Date Made Active in Reports: 09/20/2021	Last El
Number of Days to Update: 88	Next S

Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 10/01/2021 Next Scheduled EDR Contact: 01/10/2022 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: 12/01/2021 Next Scheduled EDR Contact: 01/24/2022 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: 12/01/2021 Next Scheduled EDR Contact: 01/24/2022 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	Source: EPA
Date Data Arrived at EDR: 09/15/2021	Telephone: 800-424-9346
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 09/15/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/03/2022
	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: 09/15/2021 Next Scheduled EDR Contact: 01/03/2022 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: 09/15/2021 Next Scheduled EDR Contact: 01/03/2022 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: 09/15/2021 Next Scheduled EDR Contact: 01/03/2022 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: 09/15/2021 Next Scheduled EDR Contact: 01/03/2022 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	Source: Department of the Navy
Date Data Arrived at EDR: 08/06/2021	Telephone: 843-820-7326
Date Made Active in Reports: 10/22/2021	Last EDR Contact: 11/08/2021
Number of Days to Update: 77	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 11/12/2021	Last EDR Contact: 11/18/2021
Number of Days to Update: 81	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: 06/14/2021 Date Data Arrived at EDR: 06/17/2021 Date Made Active in Reports: 08/17/2021 Number of Days to Update: 61 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 09/21/2021 Next Scheduled EDR Contact: 01/03/2022 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: 07/22/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/22/2021	Telephone: 916-323-3400
Date Made Active in Reports: 10/08/2021	Last EDR Contact: 10/26/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/07/2022
	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: 07/22/2021 Date Data Arrived at EDR: 07/22/2021 Date Made Active in Reports: 10/08/2021 Number of Days to Update: 78 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 10/26/2021 Next Scheduled EDR Contact: 02/07/2022 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 inventory 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 2: Fuel Leak List Leaking Underground Storage Tank locations. Clara, Solano, Sonoma counties.	Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa
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 4: Underground Storage Tank Leak List Los Angeles, Ventura counties. For more curre Board's LUST database.	ent information, please refer to the State Water Resources Control
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
Dorado, Fresno, Glenn, Kern, Kings, Lake, Las	Database Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El ssen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, anislaus, 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 C Leaking Underground Storage Tank locations.	Case Listing 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 to the State Water Resources Control Board's I	d Santa Ana Region (8). For more current information, please refer
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 REG 9: Leaking Underground Storage Tank F Orange, Riverside, San Diego counties. For mo Control Board's LUST database.	Report ore current information, please refer to the State Water Resources
Date of Government Version: 03/01/2001 Date Data Arrived at EDR: 04/23/2001 Date Made Active in Reports: 05/21/2001 Number of Days to Update: 28	Source: California Regional Water Quality Control Board San Diego Region (9) Telephone: 858-637-5595 Last EDR Contact: 09/26/2011 Next Scheduled EDR Contact: 01/09/2012 Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

system for sites that imp	act, or have the potent	ial to impact, water quality in California, with emphasis on groundwater.
Date of Government Ver Date Data Arrived at ED Date Made Active in Rep Number of Days to Upda	R: 09/07/2021 ports: 11/29/2021	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
	ke, Mendocino, Modoc	, Siskiyou, Sonoma, Trinity counties. For more current information, trol Board's LUST database.
Date of Government Ver Date Data Arrived at ED Date Made Active in Rep Number of Days to Upda	R: 02/28/2001 ports: 03/29/2001	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 6L: Leaking Unde For more current informa		Case Listing e State Water Resources Control Board's LUST database.
Date of Government Ver Date Data Arrived at EDI Date Made Active in Rep Number of Days to Upda	R: 09/10/2003 ports: 10/07/2003	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 6V: Leaking Unde Leaking Underground St		: Case Listing Inyo, Kern, Los Angeles, Mono, San Bernardino counties.
Date of Government Ver Date Data Arrived at ED Date Made Active in Rep Number of Days to Upda	R: 06/07/2005 ports: 06/29/2005	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 Under Leaking Underground St		Database Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.
Date of Government Ver Date Data Arrived at ED Date Made Active in Rep Number of Days to Upda	R: 05/19/2003 ports: 06/02/2003	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 R7: Leaking Ur LUSTs on Indian land in		
Date of Government Ver Date Data Arrived at ED Date Made Active in Rep Number of Days to Upda	R: 06/11/2021 ports: 09/07/2021	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
INDIAN LUST R1: Leaking Ur A listing of leaking under		
Date of Government Ver Date Data Arrived at EDI Date Made Active in Rep Number of Days to Upda	R: 06/11/2021 ports: 09/07/2021	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
A listing of leaking under Date of Government Ver Date Data Arrived at ED Date Made Active in Rep	rground storage tank lo sion: 04/28/2021 R: 06/11/2021 ports: 09/07/2021	ocations on Indian Land. Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022

INDIAN LUST R6: Leaking Underground Storage Ta LUSTs on Indian land in New Mexico and Okla	
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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
INDIAN LUST R8: Leaking Underground Storage Ta LUSTs on Indian land in Colorado, Montana, N	anks on Indian Land orth 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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
INDIAN LUST R4: Leaking Underground Storage Ta LUSTs on Indian land in Florida, Mississippi an	
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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
INDIAN LUST R9: Leaking Underground Storage Ta LUSTs on Indian land in Arizona, California, Ne	
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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
INDIAN LUST R5: Leaking Underground Storage Ta Leaking underground storage tanks located on	inks on Indian Land 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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
INDIAN LUST R10: Leaking Underground Storage T LUSTs on Indian land in Alaska, Idaho, Oregon	
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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
and Cleanups [SLIC] sites) included in GeoTrac	ite Cleanups [SC] and formerly known as Spills, Leaks, Investigations, cker. GeoTracker is the Water Boards data management system for ct, 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 & Cleanu The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	p Cost Recovery Listing leanup) program is designed to protect and restore water quality	
	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 & Cleanu The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	p Cost Recovery Listing leanup) program is designed to protect and restore water quality	
	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 & Cleanu The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	p Cost Recovery Listing leanup) program is designed to protect and restore water quality	
	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 & Clean The SLIC (Spills, Leaks, Investigations and C from spills, leaks, and similar discharges.	hup Cost Recovery Listing leanup) program is designed to protect and restore water quality	
	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 Cle from spills, leaks, and similar discharges.	eanup) program is designed to protect and restore water quality	
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 The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	o Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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	Source: FEMA
Date Data Arrived at EDR: 02/17/2021	Telephone: 202-646-5797
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 11/01/2021
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/17/2022
	Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/07/2021	Source: SWRCB
Date Data Arrived at EDR: 09/07/2021	Telephone: 916-341-5851
Date Made Active in Reports: 11/30/2021	Last EDR Contact: 12/07/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 03/21/2022
	Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOT Military ust sites	RACKER)
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 Executiv 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 Ap 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
AST: Aboveground Petroleum Storage Tank Facil A listing of aboveground storage tank petrole	
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 R10: Underground Storage Tanks or The Indian Underground Storage Tank (UST Iand in EPA Region 10 (Alaska, Idaho, Orego) database provides information about underground storage tanks on Indian
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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
INDIAN UST R5: Underground Storage Tanks on The Indian Underground Storage Tank (UST Iand in EPA Region 5 (Michigan, Minnesota a) database provides information about underground storage tanks on Indian
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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
INDIAN UST R7: Underground Storage Tanks on The Indian Underground Storage Tank (UST Iand in EPA Region 7 (Iowa, Kansas, Missou) database provides information about underground storage tanks on Indian
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 Lindate: 88	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022

Next Scheduled EDR Contact: 01/31/2022

Data Release Frequency: Varies

Number of Days to Update: 88

TC6783188.2s Page GR-11

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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 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	Source: EPA Region 9
Date Data Arrived at EDR: 06/11/2021	Telephone: 415-972-3368
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 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: 11/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/15/2021
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/03/2022
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/22/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/22/2021	Telephone: 916-323-3400
Date Made Active in Reports: 10/08/2021	Last EDR Contact: 10/26/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/07/2022
	Data Release Frequency: Quarterly

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	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: 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: 09/21/2021 Next Scheduled EDR Contact: 01/03/2022 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	Source: State Water Resources Control Board Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000 Number of Days to Update: 30	Last EDR Contact: 10/22/2021 Next Scheduled EDR Contact: 02/07/2022 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 Location of open dumps on Indian land.	on Indian Lands
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: 10/22/2021 Next Scheduled EDR Contact: 02/07/2022 Data Release Frequency: Varies
ODI: Open Dump Inventory An open dump is defined as a disposal facility Subtitle D Criteria.	that does not comply with one or more of the Part 257 or Part 258
Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39	Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned
DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.	
Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009 Number of Days to Update: 137	Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 10/14/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: No Update Planned
IHS OPEN DUMPS: Open Dumps on Indian Land A listing of all open dumps located on Indian L	and 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	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/18/2021	Telephone: 202-307-1000
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 11/16/2021
Number of Days to Update: 77	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: 07/22/2021 Date Data Arrived at EDR: 07/22/2021 Date Made Active in Reports: 10/08/2021 Number of Days to Update: 78 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 10/26/2021 Next Scheduled EDR Contact: 02/07/2022 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: 11/11/2021 Next Scheduled EDR Contact: 01/17/2022 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: 07/15/2021	
Date Data Arrived at EDR: 07/15/2021	
Date Made Active in Reports: 10/06/2021	
Number of Days to Update: 83	

Source: CalEPA Telephone: 916-323-2514 Last EDR Contact: 10/19/2021 Next Scheduled EDR Contact: 01/31/2022 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: 08/19/2021 Next Scheduled EDR Contact: 12/20/2021 Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	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: 08/05/2021	Source: San Francisco County Department of Public Health
Date Data Arrived at EDR: 08/05/2021	Telephone: 415-252-3896
Date Made Active in Reports: 10/29/2021	Last EDR Contact: 10/31/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 02/14/2022
	Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/15/2021	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/15/2021	Telephone: 916-323-2514
Date Made Active in Reports: 10/06/2021	Last EDR Contact: 10/19/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/25/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/03/2021	Telephone: 916-323-3400
Date Made Active in Reports: 11/22/2021	Last EDR Contact: 11/22/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 03/13/2022
	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: 12/01/2021 Next Scheduled EDR Contact: 01/10/2022 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	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 09/13/2021	Telephone: 202-366-4555
Date Made Active in Reports: 09/28/2021	Last EDR Contact: 09/13/2021
Number of Days to Update: 15	Next Scheduled EDR Contact: 01/03/2022
	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: 06/30/2021	Source: Office of Emergency Services
Date Data Arrived at EDR: 07/15/2021	Telephone: 916-845-8400
Date Made Active in Reports: 10/06/2021	Last EDR Contact: 10/19/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 01/31/2022
	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 Quality 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: 06/06/2012Source: FirstSearchDate Data Arrived at EDR: 01/03/2013Telephone: N/ADate Made Active in Reports: 02/22/2013Last EDR Contact: 01/03/2013Number of Days to Update: 50Next Scheduled EDR Contact: N/AData 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: 09/15/2021 Next Scheduled EDR Contact: 01/03/2022 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: 10/15/2021 Next Scheduled EDR Contact: 01/24/2022 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: 10/05/2021 Next Scheduled EDR Contact: 01/17/2022 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: 09/15/2021 Next Scheduled EDR Contact: 01/03/2022 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: 09/17/2021 Next Scheduled EDR Contact: 12/27/2021 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

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: 07/19/2021 Date Data Arrived at EDR: 07/19/2021 Date Made Active in Reports: 10/12/2021 Number of Days to Update: 85 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 10/20/2021 Next Scheduled EDR Contact: 01/31/2022 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: 10/18/2021 Next Scheduled EDR Contact: 01/31/2022 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 Pa	rties
Date of Government Version: 12/30/2020 Date Data Arrived at EDR: 01/14/2021 Date Made Active in Reports: 03/05/2021 Number of Days to Update: 50	Source: EPA Telephone: 202-564-6023 Last EDR Contact: 12/01/2021 Next Scheduled EDR Contact: 02/14/2022 Data Release Frequency: Quarterly
PADS: PCB Activity Database System PCB Activity Database. PADS Identifies gener of PCB's who are required to notify the EPA o	rators, transporters, commercial storers and/or brokers and disposers f 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: 10/08/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: Annually
	m (ICIS) supports the information needs of the national enforcement e needs of the National Pollutant Discharge Elimination System (NPDES)
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: 09/30/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: Quarterly
FTTS tracks administrative cases and pesticic	deral Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) le enforcement actions and compliance activities related to FIFRA, Community Right-to-Know Act). To maintain currency, EDR contacts the
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 - FIFR A listing of FIFRA/TSCA Tracking System (FT	A (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) TS) 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
	y Commission and contains a list of approximately 8,100 sites which ch are subject to NRC licensing requirements. To maintain currency, s.
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: 10/18/2021 Next Scheduled EDR Contact: 01/31/2022 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	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 11/30/2021
Number of Days to Update: 70	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.

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Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 12/02/2021
Number of Days to Update: 251	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 11/05/2021
Number of Days to Update: 96	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: 09/27/2021 Next Scheduled EDR Contact: 01/10/2022 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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/200 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/200 Number of Days to Update: 40	Telephone: 202-564-2501	
DOT OPS: Incident and Accident Data Department of Transporation, Office of Pipeline Safety Incident and Accident data.		
Date of Government Version: 01/02/202 Date Data Arrived at EDR: 01/28/2020 Date Made Active in Reports: 04/17/202 Number of Days to Update: 80	Telephone: 202-366-4595	
CONSENT: Superfund (CERCLA) Consent Decrees Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.		
Date of Government Version: 06/30/202 Date Data Arrived at EDR: 07/14/2021 Date Made Active in Reports: 07/16/202 Number of Days to Update: 2	Telephone: 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: 12/31/20 Date Data Arrived at EDR: 06/22/2020 Date Made Active in Reports: 11/20/202 Number of Days to Update: 151	Telephone: 800-424-9346	
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: 12/31/207 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/207 Number of Days to Update: 546	Telephone: 202-208-3710	
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: 07/26/202 Date Data Arrived at EDR: 07/27/2021 Date Made Active in Reports: 10/22/202 Number of Days to Update: 87	Telephone: 202-586-3559	
UMTRA: Uranium Mill Tailings Sites Uranium ore was mined by private com	panies for federal government use in national defense programs. When the mills	

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: 11/29/2021 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: 11/30/2021 Next Scheduled EDR Contact: 01/10/2022 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: 11/24/2021 Next Scheduled EDR Contact: 03/14/2022 Data Release Frequency: Quarterly	
US MINES: Mines Master Index File	d for mines active or opened since 1971. The data also includes	

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	Source: USGS
Date Data Arrived at EDR: 05/27/2020	Telephone: 703-648-7709
Date Made Active in Reports: 08/13/2020	Last EDR Contact: 11/22/2021
Number of Days to Update: 78	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: 06/15/2021 Date Data Arrived at EDR: 06/16/2021 Date Made Active in Reports: 08/17/2021 Number of Days to Update: 62 Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 12/02/2021 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

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: 10/07/2021 Next Scheduled EDR Contact: 01/24/2022 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.		
Date of Government Version: 06/26/2021 Date Data Arrived at EDR: 07/01/2021 Date Made Active in Reports: 09/28/2021 Number of Days to Update: 89	Source: Environmental Protection Agency Telephone: 202-564-2280 Last EDR Contact: 10/05/2021 Next Scheduled EDR Contact: 01/17/2022 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	
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: 09/21/2021 Next Scheduled EDR Contact: 01/03/2022 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	
power laundries, family and commercial; garme	PA ID numbers. These are facilities with certain SIC codes: ent pressing and cleaner's agents; linen supply; coin-operated laundries carpet and upholster cleaning; industrial launderers; laundry and	

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: 12/08/2021 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 A listing of dry cleaners in the Antelope Valley	5 F	
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 co	pllected 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: 09/17/2021 Next Scheduled EDR Contact: 12/27/2021 Data Release Frequency: Varies	
ENF: Enforcement Action Listing A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice 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: 11/04/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies	
Financial Assurance 1: Financial Assurance Information Listing Financial Assurance information		
Date of Government Version: 04/14/2021 Date Data Arrived at EDR: 04/15/2021 Date Made Active in Reports: 07/06/2021 Number of Days to Update: 82	Source: Department of Toxic Substances Control Telephone: 916-255-3628 Last EDR Contact: 10/05/2021 Next Scheduled EDR Contact: 01/31/2022 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 Belease Frequency: Varies	

Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 04/15/2020	Telephone: 916-255-1136
Date Made Active in Reports: 07/02/2020	Last EDR Contact: 10/08/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 01/17/2022
	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	Source: Department of Toxic Subsances Control
Date Data Arrived at EDR: 08/13/2021	Telephone: 877-786-9427
Date Made Active in Reports: 11/08/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 87	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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/13/2021	Telephone: 916-323-3400
Date Made Active in Reports: 11/08/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 87	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: 07/01/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/01/2021	Telephone: 916-440-7145
Date Made Active in Reports: 09/24/2021	Last EDR Contact: 10/05/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 01/17/2022
	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	Source: Department of Conservation
Date Data Arrived at EDR: 09/07/2021	Telephone: 916-322-1080
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 12/07/2021
Number of Days to Update: 83	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	Source: Department of Public Health
Date Data Arrived at EDR: 08/31/2021	Telephone: 916-558-1784
Date Made Active in Reports: 11/19/2021	Last EDR Contact: 11/30/2021
Number of Days to Update: 80	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: 05/10/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/11/2021	Telephone: 916-445-9379
Date Made Active in Reports: 07/27/2021	Last EDR Contact: 11/09/2021
Number of Days to Update: 77	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	Source: Department of Conservation

Date of Government Version: 06/04/2021Source: Department of ConservationDate Data Arrived at EDR: 06/04/2021Telephone: 916-323-3836Date Made Active in Reports: 08/27/2021Last EDR Contact: 11/29/2021Number of Days to Update: 84Next Scheduled EDR Contact: 03/21/2022Data 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	Source: Deaprtment of Conservation
Date Data Arrived at EDR: 06/03/2021	Telephone: 916-445-2408
Date Made Active in Reports: 08/25/2021	Last EDR Contact: 12/07/2021
Number of Days to Update: 83	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: 10/08/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 11/15/2021
Number of Days to Update: 9	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.

Da	ate of Government Version: 07/03/2009	Source: Los Angeles Water Quality Control Board
Da	ate Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Da	ate Made Active in Reports: 08/03/2009	Last EDR Contact: 09/14/2021
Nu	umber of Days to Update: 13	Next Scheduled EDR Contact: 01/03/2022
		Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER) Military privatized sites

Date of Government Version: 09/07/2021Source: State WatDate Data Arrived at EDR: 09/07/2021Telephone: 866-48Date Made Active in Reports: 11/29/2021Last EDR Contact:Number of Days to Update: 83Next Scheduled EDData Release Freq

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

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: 07/15/2021 Date Data Arrived at EDR: 07/15/2021 Date Made Active in Reports: 10/06/2021 Number of Days to Update: 83 Source: California Environmental Protection Agency Telephone: 916-323-2514 Last EDR Contact: 10/19/2021 Next Scheduled EDR Contact: 01/31/2022 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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/07/2021	Telephone: 866-480-1028
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 12/07/2021
Number of Days to Update: 83	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

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: 09/30/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: Varies

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: 09/30/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: Semi-Annually

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: 09/30/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: Semi-Annually

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

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: 09/30/2021 Next Scheduled EDR Contact: 01/17/2022 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: 09/30/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2021Source: Alameda County Environmental Health ServicesDate Data Arrived at EDR: 06/30/2021Telephone: 510-567-6700Date Made Active in Reports: 09/22/2021Last EDR Contact: 09/30/2021Number of Days to Update: 84Next Scheduled EDR Contact: 01/17/2022Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List Cupa Facility List

> Date of Government Version: 08/05/2021 Date Data Arrived at EDR: 08/06/2021 Date Made Active in Reports: 09/17/2021 Number of Days to Update: 42

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: 09/30/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

> Date of Government Version: 06/15/2021 Date Data Arrived at EDR: 06/16/2021 Date Made Active in Reports: 07/02/2021 Number of Days to Update: 16

Source: Calveras County Environmental Health Telephone: 209-754-6399 Last EDR Contact: 09/14/2021 Next Scheduled EDR Contact: 01/03/2022 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: 07/20/2021 Date Data Arrived at EDR: 07/20/2021 Date Made Active in Reports: 10/11/2021 Number of Days to Update: 83 Source: Contra Costa Health Services Department Telephone: 925-646-2286 Last EDR Contact: 10/22/2021 Next Scheduled EDR Contact: 02/07/2022 Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

> Date of Government Version: 06/29/2021 Date Data Arrived at EDR: 07/23/2021 Date Made Active in Reports: 10/08/2021 Number of Days to Update: 77

Source: Del Norte County Environmental Health Division Telephone: 707-465-0426 Last EDR Contact: 10/29/2021 Next Scheduled EDR Contact: 02/07/2022 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: 11/16/2021 Next Scheduled EDR Contact: 02/07/2022 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: 10/01/2021 Next Scheduled EDR Contact: 01/10/2022 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: 07/13/2021 Next Scheduled EDR Contact: 11/01/2021 Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

> Date of Government Version: 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: 07/13/2021 Date Data Arrived at EDR: 07/15/2021 Date Made Active in Reports: 10/06/2021 Number of Days to Update: 83

Source: San Diego Border Field Office Telephone: 760-339-2777 Last EDR Contact: 10/15/2021 Next Scheduled EDR Contact: 01/31/2022 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 F	łazardous 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 & Ta Kern County Sites and Tanks Listing.	ank 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:	
for Environmental Protection established the u	ied Unified Program Agency database. California's Secretary unified hazardous materials and hazardous waste regulatory program lealth and Safety Code. The Unified Program consolidates the administration, es.
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: 11/11/2021 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: 07/27/2021 Date Data Arrived at EDR: 07/28/2021 Date Made Active in Reports: 10/21/2021 Number of Days to Update: 85

Source: Lake County Environmental Health Telephone: 707-263-1164 Last EDR Contact: 10/06/2021 Next Scheduled EDR Contact: 01/24/2022 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: 11/11/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies
LOS ANGELES COUNTY:	
	ination is at or above the MCL as designated by region 9 EPA office. Date area is a cleanup plan of lead-impacted soil surrounding the former
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 Ta	ank Sites.
Date of Government Version: 07/08/2021 Date Data Arrived at EDR: 07/09/2021 Date Made Active in Reports: 09/29/2021 Number of Days to Update: 82	Source: Department of Public Works Telephone: 626-458-3517 Last EDR Contact: 10/15/2021 Next Scheduled EDR Contact: 01/17/2022 Data Release Frequency: Semi-Annually
LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.	
Date of Government Version: 07/09/2021 Date Data Arrived at EDR: 07/09/2021 Date Made Active in Reports: 09/29/2021 Number of Days to Update: 82	Source: La County Department of Public Works Telephone: 818-458-5185 Last EDR Contact: 10/08/2021 Next Scheduled EDR Contact: 01/24/2022 Data Release Frequency: Varies
LF LOS ANGELES CITY: City of Los Angeles Land Landfills owned and maintained by the City of	
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: 10/05/2021 Next Scheduled EDR Contact: 01/24/2022 Data Release Frequency: Varies
LOS ANGELES AST: Active & Inactive AST Invent A listing of active & inactive above ground per Angeles.	tory troleum storage tank site locations, located in the City of Los
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 Davs to Undate: 58	Source: Los Angeles Fire Department Telephone: 213-978-3800 Last EDR Contact: 09/24/2021 Next Scheduled EDR Contact: 01/03/2022

Next Scheduled EDR Contact: 01/03/2022

Data Release Frequency: Varies

Number of Days to Update: 58

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 04/16/2021	Telephone: 626-458-6973
Date Made Active in Reports: 04/21/2021	Last EDR Contact: 10/08/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 01/24/2022
	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: 09/24/2021 Next Scheduled EDR Contact: 01/03/2022 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: 09/24/2021 Next Scheduled EDR Contact: 01/03/2022 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: 10/15/2021 Next Scheduled EDR Contact: 01/24/2022 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: 10/06/2021 Next Scheduled EDR Contact: 01/24/2022 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: 04/22/2019Source: City of Long Beach Fire DepartmentDate Data Arrived at EDR: 04/23/2019Telephone: 562-570-2563Date Made Active in Reports: 06/27/2019Last EDR Contact: 10/14/2021Number of Days to Update: 65Next Scheduled EDR Contact: 01/31/2022Data 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: 10/15/2021 Next Scheduled EDR Contact: 01/31/2022 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: 09/23/2021 Next Scheduled EDR Contact: 01/10/2022 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: 12/02/2021 Next Scheduled EDR Contact: 06/06/3021 Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021 Date Data Arrived at EDR: 06/23/2021 Date Made Active in Reports: 06/24/2021 Number of Days to Update: 1 Source: Monterey County Health Department Telephone: 831-796-1297 Last EDR Contact: 09/23/2021 Next Scheduled EDR Contact: 01/10/2022 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	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 09/09/2019	Telephone: 707-253-4269
Date Made Active in Reports: 10/31/2019	Last EDR Contact: 11/16/2021
Number of Days to Update: 52	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: 07/28/2021 Date Data Arrived at EDR: 07/28/2021 Date Made Active in Reports: 10/21/2021 Number of Days to Update: 85

Source: Community Development Agency Telephone: 530-265-1467 Last EDR Contact: 10/22/2021 Next Scheduled EDR Contact: 02/07/2022 Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Petroleum and non-petroleum spills.

Date of Government Version: 07/09/2021
Date Data Arrived at EDR: 08/03/2021
Date Made Active in Reports: 10/26/2021
Number of Days to Update: 84

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: 07/09/2021 Date Data Arrived at EDR: 08/03/2021 Date Made Active in Reports: 10/26/2021 Number of Days to Update: 84	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	
T ORANGE: List of Underground Storage Tank Facilities		

UST ORANGE: List of Underground Storage Tank Facilities Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/09/2021 Date Data Arrived at EDR: 07/29/2021 Date Made Active in Reports: 10/19/2021 Number of Days to Update: 82 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: 10/14/2021 Next Scheduled EDR Contact: 01/31/2022 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: 06/29/2021 Date Data Arrived at EDR: 06/30/2021 Date Made Active in Reports: 07/14/2021 Number of Days to Update: 14 Source: Department of Environmental Health Telephone: 951-358-5055 Last EDR Contact: 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: 06/29/2021	Source: Department of Environmental Health
Date Data Arrived at EDR: 06/30/2021	Telephone: 951-358-5055
Date Made Active in Reports: 07/14/2021	Last EDR Contact: 12/08/2021
Number of Days to Update: 14	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: 03/30/2021 Date Data Arrived at EDR: 04/01/2021 Date Made Active in Reports: 06/23/2021 Number of Days to Update: 83 Source: Sacramento County Environmental Management Telephone: 916-875-8406 Last EDR Contact: 09/28/2021 Next Scheduled EDR Contact: 01/10/2022 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.

Source: Sacramento County Environmental Management Telephone: 916-875-8406 Last EDR Contact: 10/01/2021 Next Scheduled EDR Contact: 01/10/2022 Data Release Frequency: Quarterly

SAN BENITO COUNTY:

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CUPA SAN BENITO: CUPA Facility List
Cupa facility list
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Date of Government Version: 07/27/2021 Date Data Arrived at EDR: 07/28/2021 Date Made Active in Reports: 10/21/2021 Number of Days to Update: 85 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	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 08/12/2021	Telephone: 909-387-3041
Date Made Active in Reports: 11/08/2021	Last EDR Contact: 11/01/2021
Number of Days to Update: 88	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: 12/08/2021 Next Scheduled EDR Contact: 01/31/2022

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020 Date Data Arrived at EDR: 07/16/2020 Date Made Active in Reports: 09/29/2020 Number of Days to Update: 75 Source: Department of Environmental Health Telephone: 858-505-6874 Last EDR Contact: 10/15/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies

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	Source: Department of Public Health
Date Data Arrived at EDR: 08/05/2021	Telephone: 415-252-3920
Date Made Active in Reports: 10/29/2021	Last EDR Contact: 10/31/2021
Number of Days to Update: 85	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	Source: Environmental Health Department Telephone: N/A
Date Made Active in Reports: 07/11/2018	Last EDR Contact: 09/09/2021
Number of Days to Update: 15	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	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 02/20/2020	Telephone: 650-363-1921
Date Made Active in Reports: 04/24/2020	Last EDR Contact: 09/10/2021
Number of Days to Update: 64	Next Scheduled EDR Contact: 12/20/2021
	Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 03/29/2019	Telephone: 650-363-1921
Date Made Active in Reports: 05/29/2019	Last EDR Contact: 12/02/2021
Number of Days to Update: 61	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
SAN	TA CLARA COUNTY:	
CUP	A 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		k Site Activity Report nd storage tanks. This listing is no longer updated by the county andled 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
LUS	T 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 Ta A listing of leaking underground storage tank		
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: 06/22/2021 Date Data Arrived at EDR: 06/23/2021 Date Made Active in Reports: 09/17/2021 Number of Days to Update: 86	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: 09/14/2021 Next Scheduled EDR Contact: 01/03/2022 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: 09/14/2021 Next Scheduled EDR Contact: 01/03/2022 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: 10/06/2021 Next Scheduled EDR Contact: 01/24/2022 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: 12/08/2021 Next Scheduled EDR Contact: 02/14/2022 Data Release Frequency: Varies

Source: Department of Toxic Substances Control

Next Scheduled EDR Contact: 01/31/2022

Telephone: 760-352-0381

Last EDR Contact: 10/15/2021

Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List Cupa facility list

> Date of Government Version: 07/14/2021 Date Data Arrived at EDR: 07/15/2021 Date Made Active in Reports: 10/06/2021 Number of Days to Update: 83

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: 11/01/2021 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: 10/14/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste The BWT list indicates by site address whethe Producer (W), and/or Underground Tank (T) ir	er the Environmental Health Division has Business Plan (B), Waste	
Date of Government Version: 05/26/2021 Date Data Arrived at EDR: 07/19/2021 Date Made Active in Reports: 10/08/2021 Number of Days to Update: 81	Source: Ventura County Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 10/18/2021 Next Scheduled EDR Contact: 01/31/2022 Data Release Frequency: Quarterly	
LF VENTURA: Inventory of Illegal Abandoned and Ventura County Inventory of Closed, Illegal Ab		
Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012 Number of Days to Update: 49	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 09/23/2021 Next Scheduled EDR Contact: 01/10/2022 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: 05/26/2021 Date Data Arrived at EDR: 07/19/2021 Date Made Active in Reports: 10/07/2021 Number of Days to Update: 80	Source: Ventura County Resource Management Agency Telephone: 805-654-2813 Last EDR Contact: 10/18/2021 Next Scheduled EDR Contact: 01/31/2022 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: 06/22/2021 Date Data Arrived at EDR: 06/28/2021 Date Made Active in Reports: 09/21/2021 Number of Days to Update: 85	Source: Yolo County Department of Health Telephone: 530-666-8646 Last EDR Contact: 09/23/2021 Next Scheduled EDR Contact: 01/10/2022 Data Release Frequency: Annually	

YUBA COUNTY:

CUPA YUBA: CUPA Facility List CUPA facility listing for Yuba County.

> Date of Government Version: 07/20/2021 Date Data Arrived at EDR: 07/20/2021 Date Made Active in Reports: 10/08/2021 Number of Days to Update: 80

Source: Yuba County Environmental Health Department Telephone: 530-749-7523 Last EDR Contact: 10/22/2021 Next Scheduled EDR Contact: 02/07/2022 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: 10/05/2021 Next Scheduled EDR Contact: 01/17/2022 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: 04/29/2020 Date Made Active in Reports: 07/10/2020 Number of Days to Update: 72	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 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: 10/07/2021 Next Scheduled EDR Contact: 01/24/2022 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information Hazardous waste manifest information.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 09/03/2019 Number of Days to Update: 76 Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 12/06/2021 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

DUKE - PATTERSON AVENUE PATTERSON AVENUE **PERRIS, CA 92571**

TARGET PROPERTY COORDINATES

Latitude (North):	33.854856 - 33 51' 17.48"
Longitude (West):	117.252128 - 117 15' 7.66"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	476676.4
UTM Y (Meters):	3745897.5
Elevation:	1498 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12015925 STEELE PEAK, CA
Version Date:	2018
Southeast Map:	12015907 PERRIS, 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:

- Groundwater flow direction, and
 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.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

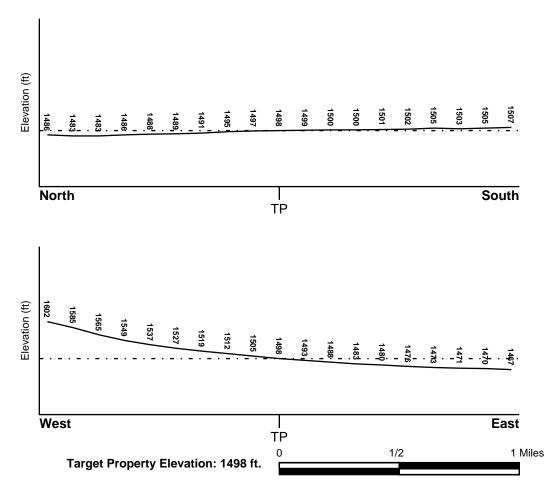
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

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
06065C1410G	FEMA FIRM Flood data
Additional Panels in search area:	FEMA Source Type
06065C1430H	FEMA FIRM Flood data
NATIONAL WETLAND INVENTORY	
NWI Quad at Target Property NOT AVAILABLE	NWI Electronic <u>Data Coverage</u> 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 Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

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

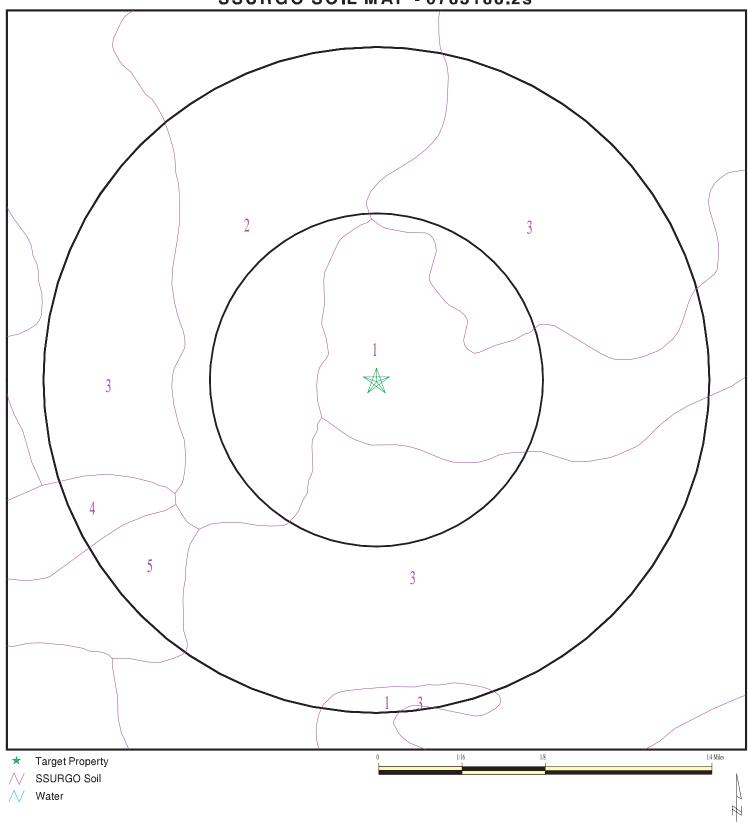
GEOLOGIC AGE IDENTIFICATION

Plutonic and Intrusive Rocks

Era:	Mesozoic	Category:
System:	Cretaceous	
Series:	Cretaceous granitic rocks	
Code:	Kg (decoded above as Era, System	& Series)

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).





ADDRESS:	Duke - Patterson Avenue Patterson Avenue Perris CA 92571 33.854856 / 117.252128
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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:	РАСНАРРА
Soil Surface Texture:	fine sandy loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Low
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information							
	Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.8 Min: 6.6	
2	20 inches	62 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.8 Min: 6.6	

Soil Map ID: 2	
Soil Component Name:	GREENFIELD
Soil Surface Texture:	sandy loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Boundary Classification				Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	25 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	25 inches	42 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
3	42 inches	59 inches	loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
4	59 inches	72 inches	stratified loamy sand to sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 3	
Soil Component Name:	RAMONA
Soil Surface Texture:	sandy loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Bou	indary		Classif	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	14 inches	22 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	22 inches	68 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	68 inches	74 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 4	
Soil Component Name:	HANFORD
Soil Surface Texture:	coarse sandy loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information						
	Βοι	Indary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
3	40 inches	59 inches	stratified loamy sand to coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

Soil Map ID: 5	
Soil Component Name:	GREENFIELD
Soil Surface Texture:	sandy loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Low
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information						
Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	25 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	25 inches	42 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
3	42 inches	59 inches	loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
4	59 inches	72 inches	stratified loamy sand to sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

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
A2 B7	USGS40000138614 USGS40000138620	1/8 - 1/4 Mile East 1/4 - 1/2 Mile ENE
E41	USGS40000138615	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

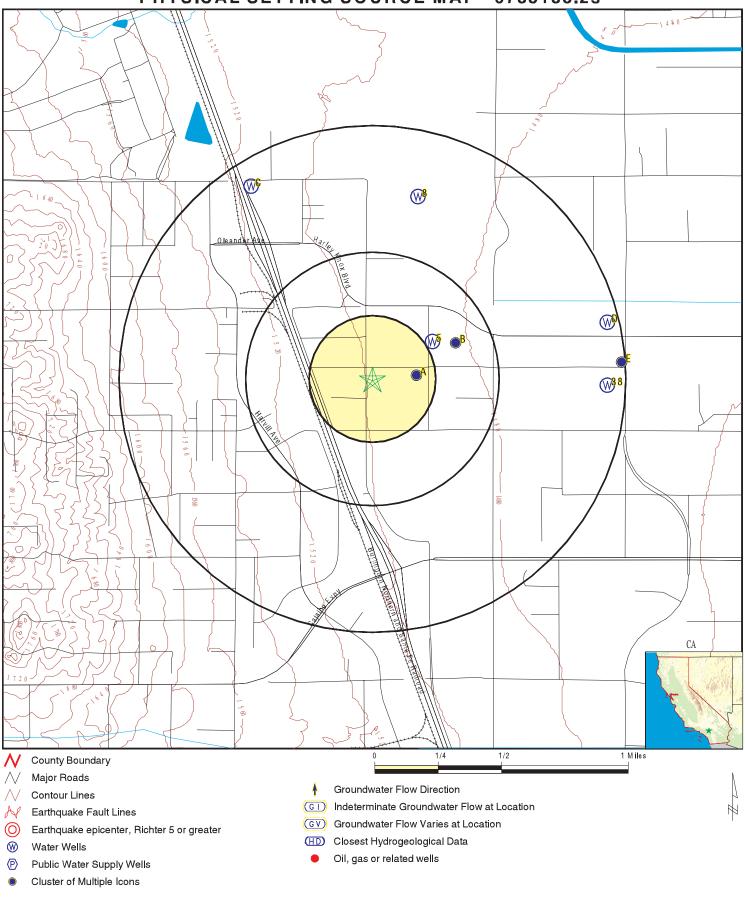
STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
A1	CAUSGSN00002987	1/8 - 1/4 Mile East
A3	CADWR0000037413	1/8 - 1/4 Mile East
A4	CADWR9000005902	1/8 - 1/4 Mile East
5	CADWR9000005915	1/4 - 1/2 Mile ENE
B6	CAUSGSN00003468	1/4 - 1/2 Mile ENE
8	CADWR0000027443	1/2 - 1 Mile NNE
C9	CAEDF0000022393	1/2 - 1 Mile NNW
C10	CAEDF0000043356	1/2 - 1 Mile NNW
C11	CAEDF0000115797	1/2 - 1 Mile NNW
C12	CAEDF0000118926	1/2 - 1 Mile NNW
C13	CAEDF0000031052	1/2 - 1 Mile NNW
C14	CAEDF0000048298	1/2 - 1 Mile NNW
C15	CAEDF0000108797	1/2 - 1 Mile NNW
C16	CAEDF0000097222	1/2 - 1 Mile NNW
C17	CAEDF0000133212	1/2 - 1 Mile NNW
C18	CAEDF0000080414	1/2 - 1 Mile NNW
C19	CAEDF0000035156	1/2 - 1 Mile NNW
C20	CAEDF0000040148	1/2 - 1 Mile NNW
C21 C22	CAEDF0000005173 CAEDF0000061536	1/2 - 1 Mile NNW 1/2 - 1 Mile NNW
C22 C23	CAEDF0000081538 CAEDF0000129092	1/2 - 1 Mile NNW
C23 C24	CAEDF0000129092 CAEDF0000117529	1/2 - 1 Mile NNW
C24 C25	CAEDF0000092047	1/2 - 1 Mile NNW
C25 C26	CAEDF0000092047 CAEDF0000119358	1/2 - 1 Mile NNW
C20 C27	CAEDF0000085382	1/2 - 1 Mile NNW
C28	CAEDF0000072358	1/2 - 1 Mile NNW
C29	CAEDF0000100210	1/2 - 1 Mile NNW
C30	CAEDF000000743	1/2 - 1 Mile NNW
C31	CAEDF0000073962	1/2 - 1 Mile NNW
C32	CAEDF0000012342	1/2 - 1 Mile NNW
C33	CAEDF0000133677	1/2 - 1 Mile NNW
C34	CAEDF0000096670	1/2 - 1 Mile NNW
C35	CAEDF0000019985	1/2 - 1 Mile NNW
C36	CAEDF0000076742	1/2 - 1 Mile NNW

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C37 38 D39 D40	CAEDF0000132144 CADWR0000029072 CADWR0000025427 CADWR0000017765	1/2 - 1 Mile NNW 1/2 - 1 Mile East 1/2 - 1 Mile ENE 1/2 - 1 Mile ENE
E42	CAUSGSN00010020	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 6783188.2s



ADDRESS:	Duke - Patterson Avenue Patterson Avenue Perris CA 92571 33.854856 / 117.252128	CONTACT: INQUIRY #:	APEX Environmental Tania Cowden 6783188.2s December 09, 2021 6:05 pm
		Copyri	ght © 2021 EDR, Inc. © 2015 TomTom Rel. 2015.

Distance Elevation			Database	EDR ID Number
A1				CAUCOCN0000007
East 1/8 - 1/4 Mile			CA WELLS	CAUSGSN00002987
Lower				
Well ID:	USGS-335119117145401	Well Type:	UNK	
Source:	United States Geological Survey			
Other Name:	USGS-335119117145401	GAMA PFAS Testing:		
Groundwater Quality Data:	https://gamagroundwater.waterboard amp_date=&global_id=&assigned_na			
GeoTracker Data:	Not Reported			
A2 East 1/8 - 1/4 Mile Lower			FED USGS	USGS40000138614
Organization ID:	USGS-CA			
Organization Name:	USGS California Water Science Cen			
Monitor Location: Description:	004S004W01G001S	Type: HUC:	Well 18070	202
Drainage Area:	Not Reported Not Reported	Drainage Area Units:		eported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area L		eported
Aquifer:	California Coastal Basin aquifers			
Formation Type:	Not Reported	Aquifer Type:		eported
Construction Date: Well Depth Units:	Not Reported Not Reported	Well Depth: Well Hole Depth:		eported eported
Well Hole Depth Units:	Not Reported	· · · · · · · · · · · · · · · · · · ·		
A3 East 1/8 - 1/4 Mile Lower			CA WELLS	CADWR0000037413
Well ID: Source:	04S04W01G001S Department of Water Resources	Well Type:	UNK	
Other Name:	04S04W01G001S	GAMA PFAS Testing:	Not R	eported
Groundwater Quality Data:	https://gamagroundwater.waterboard date=&global_id=&assigned_name=(aDisplay.asp?dataset=DWR&samp
GeoTracker Data: A4 East 1/8 - 1/4 Mile	Not Reported		CA WELLS	CADWR9000005902
Lower				_
State Well #: Well Name:	Not Reported EMWD12474	Station ID: Basin Name:	48247 San J	7 lacinto
Well Use:	Irrigation	Well Type:	San J Single	
Well Depth:	0	Well Completion Rpt #:	Not R	eported

Distance Elevation			Database	EDR ID Number
5 ENE 1/4 - 1/2 Mile Lower			CA WELLS	CADWR9000005915
State Well #: Well Name: Well Use: Well Depth:	Not Reported EMWD12471 Irrigation 0	Station ID: Basin Name: Well Type: Well Completion Rpt #:	Single	6 lacinto e Well eported
B6 ENE 1/4 - 1/2 Mile Lower			CA WELLS	CAUSGSN00003468
Well ID: Source: Other Name:	USGS-335125117144401 United States Geological Survey USGS-335125117144401	Well Type: GAMA PFAS Testing:		eported
Groundwater Quality Data: GeoTracker Data:	https://gamagroundwater.waterboar amp_date=&global_id=&assigned_r Not Reported			
ENE 1/4 - 1/2 Mile			FED USGS	USGS40000138620
ENE 1/4 - 1/2 Mile Lower	USGS-CA		FED USGS	USGS40000138620
ENE 1/4 - 1/2 Mile	USGS-CA USGS California Water Science Cer	ıter	FED USGS	USGS40000138620
ENE I/4 - 1/2 Mile Lower Organization ID: Organization Name: Monitor Location:	USGS California Water Science Cer 004S004W01A001S	Туре:	Well	
ENE I/4 - 1/2 Mile _ower Organization ID: Organization Name: Monitor Location: Description:	USGS California Water Science Cer 004S004W01A001S Not Reported	Type: HUC:	Well 18070	0202
ENE 1/4 - 1/2 Mile Lower Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area:	USGS California Water Science Cer 004S004W01A001S Not Reported Not Reported Not Reported Not Reported	Туре:	Well 18070 Not R	
ENE 1/4 - 1/2 Mile Lower Organization ID: Organization Name: Monitor Location: Description: Drainage Area:	USGS California Water Science Cer 004S004W01A001S Not Reported Not Reported	Type: HUC: Drainage Area Units:	Well 1807(Not R Jnts: Not R	0202 eported
Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date:	USGS California Water Science Cer 004S004W01A001S Not Reported Not Reported Not Reported California Coastal Basin aquifers Not Reported Not Reported	Type: HUC: Drainage Area Units: Contrib Drainage Area U Aquifer Type: Well Depth:	Well 1807(Not R Jnts: Not R Not R Not R	0202 eported eported eported eported
ENE 1/4 - 1/2 Mile Lower Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type:	USGS California Water Science Cer 004S004W01A001S Not Reported Not Reported Not Reported California Coastal Basin aquifers Not Reported	Type: HUC: Drainage Area Units: Contrib Drainage Area U Aquifer Type:	Well 1807(Not R Jnts: Not R Not R Not R	0202 eported eported eported
ENE I/4 - 1/2 Mile Lower Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units: Well Hole Depth Units: Well Hole Depth Units:	USGS California Water Science Cer 004S004W01A001S Not Reported Not Reported California Coastal Basin aquifers Not Reported Not Reported Not Reported Not Reported	Type: HUC: Drainage Area Units: Contrib Drainage Area U Aquifer Type: Well Depth:	Well 1807(Not R Jnts: Not R Not R Not R	0202 eported eported eported eported
ENE 1/4 - 1/2 Mile Lower Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date: Well Depth Units:	USGS California Water Science Cer 004S004W01A001S Not Reported Not Reported California Coastal Basin aquifers Not Reported Not Reported Not Reported Not Reported	Type: HUC: Drainage Area Units: Contrib Drainage Area U Aquifer Type: Well Depth:	Well 18070 Not R Jnts: Not R Not R Not R Not R	D202 eported eported eported eported

Map ID Direction Distance				
Elevation			Database	EDR ID Number
C9 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000022393
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=MW13&s	MW1 nap/public/GamaDa store_num=	ITORING 3 taDisplay.asp?dataset=EDF&samp s&global_id=T0606500307&assi
C10 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000043356
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030)7&assigned_name=MW 7&s	MW 7 nap/public/GamaDa tore_num=	IITORING 7 taDisplay.asp?dataset=EDF&samp s&global_id=T0606500307&assi
C11 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000115797
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030)7&assigned_name=MW7&st	MW7 nap/public/GamaDa ore_num=	IITORING taDisplay.asp?dataset=EDF&samp s&global_id=T0606500307&assi
C12 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000118926
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030)7&assigned_name=MW11&s	MW1 nap/public/GamaDa store_num=	IITORING 1 taDisplay.asp?dataset=EDF&samp. s&global_id=T0606500307&assi

Map ID Direction Distance				
Elevation			Database	EDR ID Number
C13 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000031052
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=MW 11&	MW [^] nap/public/GamaDa store_num=	ITORING 11 taDisplay.asp?dataset=EDF&samp_ s&global_id=T0606500307&assi
C14 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000048298
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=MW5&st	MW5 nap/public/GamaDa ore_num=	ITORING taDisplay.asp?dataset=EDF&samp_ s&global_id=T0606500307&assi
C15 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000108797
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=MW 5&s	MW s nap/public/GamaDa tore_num=	ITORING 5 taDisplay.asp?dataset=EDF&samp_ s&global_id=T0606500307&assi
C16 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000097222
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=MW6&st	MW6 nap/public/GamaDa ore_num=	ITORING taDisplay.asp?dataset=EDF&samp_ s&global_id=T0606500307&assi

Direction Distance Elevation			Database	EDR ID Number
C17 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000133212
Well ID: Source: GAMA PFAS Testing:	T0606500307-MW 6 EDF Not Reported	Well Type: Other Name:	MON MW 6	ITORING
Groundwater Quality Data: GeoTracker Data:	https://gamagroundwater.wate date=&global_id=T060650030	7&assigned_name=MW 6&s	store_num=	taDisplay.asp?dataset=EDF&sam &global_id=T0606500307&assi
C18 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000080414
Well ID: Source:	T0606500307-MW 12 EDF	Well Type: Other Name:	MON MW 1	ITORING 12
GAMA PFAS Testing:	Not Reported			
	date=&global_id=T060650030	7&assigned_name=MW 128	store_num=	taDisplay.asp?dataset=EDF&sam i&global_id=T0606500307&assi
GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data: C19 NNW 1/2 - 1 Mile	https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboards	7&assigned_name=MW 128	store_num=	
GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data: C19 NNW 1/2 - 1 Mile Higher Well ID:	https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboards gned_name=MW 12 T0606500307-MW12	7&assigned_name=MW 12& c.ca.gov/profile_report.asp?c Well Type:	&store_num= md=MWEDFResults CA WELLS MON	s&global_id=T0606500307&assi CAEDF0000035156
GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data: C19 NNW 1/2 - 1 Mile Higher	https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboards gned_name=MW 12 T0606500307-MW12 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060650030	7&assigned_name=MW 12& c.a.gov/profile_report.asp?c Well Type: Other Name: rboards.ca.gov/gama/gama 7&assigned_name=MW12&	Astore_num= md=MWEDFResults CA WELLS MON MW1 map/public/GamaDa store_num=	s&global_id=T0606500307&assi CAEDF0000035156
GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data: C19 NNW 1/2 - 1 Mile Higher Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data:	https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboards gned_name=MW 12 T0606500307-MW12 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboards	7&assigned_name=MW 12& c.a.gov/profile_report.asp?c Well Type: Other Name: rboards.ca.gov/gama/gama 7&assigned_name=MW12&	Astore_num= md=MWEDFResults CA WELLS MON MW1 map/public/GamaDa store_num=	s&global_id=T0606500307&assi CAEDF0000035156 ITORING 2 taDisplay.asp?dataset=EDF&sam
GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data: C19 NNW I/2 - 1 Mile Higher Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data: C20 NNW I/2 - 1 Mile	https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboards gned_name=MW 12 T0606500307-MW12 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboards	7&assigned_name=MW 12& c.a.gov/profile_report.asp?c Well Type: Other Name: rboards.ca.gov/gama/gama 7&assigned_name=MW12&	Astore_num= md=MWEDFResults CA WELLS MON MW1 map/public/GamaDa store_num= md=MWEDFResults CA WELLS	CAEDF0000035156 ITORING 2 taDisplay.asp?dataset=EDF&sam &global_id=T0606500307&assi

Direction Distance				
Elevation			Database	EDR ID Number
C21 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000005173
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data:			DPE: map/public/GamaDa	ITORING 3 taDisplay.asp?dataset=EDF&samp
GeoTracker Data:	date=&global_id=T060650030 https://geotracker.waterboard gned_name=DPE3			&global_id=T0606500307&assi
C22 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000061536
Well ID: Source: GAMA PFAS Testing:	T0606500307-MW2 EDF Not Reported	Well Type: Other Name:	MON MW2	ITORING
Groundwater Quality Data:	https://gamagroundwater.wate date=&global id=T060650030			taDisplay.asp?dataset=EDF&samp
GeoTracker Data:	5 =	0 =		&global_id=T0606500307&assi
C23 NNW 1/2 - 1 Mile	https://geotracker.waterboard	0 =		&global_id=T0606500307&assi
C23 NNW	https://geotracker.waterboard	0 =	md=MWEDFResults	CAEDF0000129092
C23 NNW 1/2 - 1 Mile Higher Well ID:	https://geotracker.waterboard gned_name=MW2 T0606500307-DPE6 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060650030	Well Type: Other Name: 07&assigned_name=DPE6&s	md=MWEDFResults CA WELLS MON DPE6 map/public/GamaDa store_num=	CAEDF0000129092
C23 NNW 1/2 - 1 Mile Higher Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data:	https://geotracker.waterboard gned_name=MW2 T0606500307-DPE6 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboard	Well Type: Other Name: 07&assigned_name=DPE6&s	md=MWEDFResults CA WELLS MON DPE6 map/public/GamaDa store_num=	CAEDF0000129092 ITORING 5 taDisplay.asp?dataset=EDF&samp
C23 NNW 1/2 - 1 Mile Higher Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data: C24 NNW 1/2 - 1 Mile	https://geotracker.waterboard gned_name=MW2 T0606500307-DPE6 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboard	Well Type: Other Name: 07&assigned_name=DPE6&s	Md=MWEDFResults CA WELLS MON DPEG map/public/GamaDa store_num= md=MWEDFResults CA WELLS	CAEDF0000129092 ITORING taDisplay.asp?dataset=EDF&samp &global_id=T0606500307&assi CAEDF0000117529
C23 NNW 1/2 - 1 Mile Higher Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data: C24 NNW 1/2 - 1 Mile Higher Well ID:	https://geotracker.waterboard gned_name=MW2 T0606500307-DPE6 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060650030 https://geotracker.waterboard gned_name=DPE6 T0606500307-MW 2 EDF Not Reported	Well Type: Other Name: erboards.ca.gov/gama/gamar D7&assigned_name=DPE6&s s.ca.gov/profile_report.asp?c Well Type: Other Name: erboards.ca.gov/gama/gamar	Md=MWEDFResults CA WELLS MON DPE6 map/public/GamaDa store_num= md=MWEDFResults CA WELLS MON MW 2 map/public/GamaDa	CAEDF0000129092 ITORING taDisplay.asp?dataset=EDF&samp &global_id=T0606500307&assi CAEDF0000117529

Map ID Direction				
Distance Elevation			Database	EDR ID Number
C25 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000092047
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=MW 10&	MW ^ nap/public/GamaDa store_num=	ITORING I0 taDisplay.asp?dataset=EDF&samp_ &global_id=T0606500307&assi
C26 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000119358
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=MW10&s	MW1 nap/public/GamaDa store_num=	ITORING 0 taDisplay.asp?dataset=EDF&samp_ &global_id=T0606500307&assi
C27 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000085382
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=DPE1&s	DPE ⁻ nap/public/GamaDa tore_num=	ITORING I taDisplay.asp?dataset=EDF&samp_ &global_id=T0606500307&assi
C28 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000072358
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	7&assigned_name=MW 3&s	MW 3 nap/public/GamaDa tore_num=	ITORING } taDisplay.asp?dataset=EDF&samp_ &global_id=T0606500307&assi

Distance Elevation			Database	EDR ID Number
C29 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000100210
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	07&assigned_name=MW3&s	MW3 map/public/GamaDa tore_num=	ITORING taDisplay.asp?dataset=EDF&samp &global_id=T0606500307&assi
C30 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF000000743
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	07&assigned_name=DPE5&s	DPE map/public/GamaDa store_num=	ITORING 5 taDisplay.asp?dataset=EDF&samp :&global_id=T0606500307&assi
C31 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000073962
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	07&assigned_name=DPE4&s	DPE4 map/public/GamaDa store_num=	ITORING t taDisplay.asp?dataset=EDF&samp &global_id=T0606500307&assi
C32 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000012342
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data:	T0606500307-MW 8 EDF Not Reported https://gamagroundwater.wate date=&global_id=T060650030	07&assigned_name=MW 8&s	MW 8 map/public/GamaDa store_num=	ITORING 3 taDisplay.asp?dataset=EDF&samp &global_id=T0606500307&assi

Distance Elevation			Database	EDR ID Number
C33 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000133677
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030)7&assigned_name=MW 1&s	MW [^] map/public/GamaDa store_num=	IITORING 1 taDisplay.asp?dataset=EDF&samp s&global_id=T0606500307&assi
C34 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000096670
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030)7&assigned_name=MW1&s	MW1 map/public/GamaDa tore_num=	ITORING taDisplay.asp?dataset=EDF&samp s&global_id=T0606500307&assi
C35 NNW I/2 - 1 Mile Higher			CA WELLS	CAEDF0000019985
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030	07&assigned_name=MW 4&s	MW 4 map/public/GamaDa store_num=	IITORING 4 taDisplay.asp?dataset=EDF&samp s&global_id=T0606500307&assi
C36 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000076742
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	date=&global_id=T060650030)7&assigned_name=MW9&s	MW9 map/public/GamaDa tore_num=	IITORING taDisplay.asp?dataset=EDF&samp s&global_id=T0606500307&assi

Map ID Direction				
Distance Elevation			Database	EDR ID Number
C37 NNW 1/2 - 1 Mile Higher			CA WELLS	CAEDF0000132144
Well ID: Source: GAMA PFAS Testing: Groundwater Quality Data: GeoTracker Data:	T0606500307-MW 9 EDF Not Reported https://gamagroundwater.waterboard date=&global_id=T0606500307&ass https://geotracker.waterboards.ca.go gned_name=MW 9	signed_name=MW 9&store	MW s /public/GamaDat e_num=	taDisplay.asp?dataset=EDF&samp_
38 East 1/2 - 1 Mile Lower			CA WELLS	CADWR0000029072
Well ID: Source: Other Name: Groundwater Quality Data: GeoTracker Data:	04S03W06F001S Department of Water Resources 04S03W06F001S https://gamagroundwater.waterboard date=&global_id=&assigned_name= Not Reported		/public/GamaDat	Reported taDisplay.asp?dataset=DWR&samp
D39 ENE 1/2 - 1 Mile Lower			CA WELLS	CADWR0000025427
Well ID: Source: Other Name: Groundwater Quality Data: GeoTracker Data:	04S03W06C002S Department of Water Resources 04S03W06C002S https://gamagroundwater.waterboard date=&global_id=&assigned_name= Not Reported		/public/GamaDat	Reported taDisplay.asp?dataset=DWR&samp
D40 ENE 1/2 - 1 Mile Lower			CA WELLS	CADWR0000017765
Well ID: Source: Other Name: Groundwater Quality Data: GeoTracker Data:	04S03W06C001S Department of Water Resources 04S03W06C001S https://gamagroundwater.waterboard date=&global_id=&assigned_name= Not Reported		/public/GamaDat	Reported taDisplay.asp?dataset=DWR&samp

Map ID Direction Distance Elevation E41 East 1/2 - 1 Mile Lower			Database FED USGS	EDR ID Number USGS40000138615	
Organization ID: Organization Name: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units:	USGS-CA USGS California Water Science Cer 004S003W06C001S Not Reported Not Reported California Coastal Basin aquifers Not Reported Not Reported Not Reported Not Reported Not Reported	tter Type: HUC: Drainage Area Units: Contrib Drainage Area Aquifer Type: Well Depth: Well Hole Depth:	Not Unts: Not Not Not	ll 170202 Reported Reported Reported Reported	
E42 East 1/2 - 1 Mile Lower Well ID:	USGS-335121117140301	Well Type:	CA WELLS	CAUSGSN00010020	
Well ID: Source: Other Name: Groundwater Quality Data: GeoTracker Data:	USGS-335121117140301 United States Geological Survey USGS-335121117140301 https://gamagroundwater.waterboard amp_date=&global_id=&assigned_n Not Reported		Not /public/GamaD	Reported DataDisplay.asp?dataset=USG	SNEW&s

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92571	1	0

Federal EPA Radon Zone for RIVERSIDE County: 2

```
Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.
```

Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

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.

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

ENVIRONMENTAL LIENS AND ACTIVITY USE LIMITATIONS REPORT

Duke - Patterson Expansion Not Reported Perris, CA 92571

Inquiry Number: 6641725.7 September 01, 2021

EDR Environmental Lien and AUL Search



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- · search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- · access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

Not Reported Duke - Patterson Expansion Perris, CA 92571

ENVIRONMENTAL LIEN					
Environmental Lien:	Found		Not Found	×	
OTHER ACTIVITY AND USE LIMITATIONS (AULs)					
AULs:	Found		Not Found	×	

RESEARCH SOURCE

Source 1: Riverside Recorder Riverside, CA

PROPERTY INFORMATION

Deed 1:

-	Type of Dood:	deed
	Type of Deed : Title is vested in:	Duke Realty Patterson LP
	Title received from:	Linkup LLC
	Deed Dated	1/8/2021
	Deed Recorded:	1/13/2021
	Book:	NA
	Page:	na
	Volume:	na
	Instrument	
	Docket	na NA
	Land Record Comments:	
	Miscellaneous Comments:	
	Legal Description:	See Exhibit
I	Legal Current Owner:	Duke Realty Patterson LP
I	Parcel # / Property Identifier:	314-153-015 thru 018, 314-153-022 thru 29, 314153-033 thru 40, 314-153-042
(Comments:	See Exhibit
Deed	d 2:	
-	Type of Deed:	deed
-	Title is vested in:	Duke Realty Patterson LP
-	Title received from:	Robert A& Joan K Gibel Trustees
I	Deed Dated	1/8/2021
I	Deed Recorded:	1/13/2021
I	Book:	NA
I	Page:	na
١	Volume:	na
I	Instrument	na
	Docket	NA
	Land Record Comments:	
I	Miscellaneous Comments:	
I	Legal Description:	See Exhibit
I	Legal Current Owner:	Duke Realty Patterson LP
I	Parcel # / Property Identifier:	314-153-019 thru 021
(Comments:	See Exhibit
Deed	d 3:	
-	Type of Deed:	deed
	Title is vested in:	Duke Realty Patterson LP
-	Title received from:	Bern ardita Pascual
I	Deed Dated	4/19/2021

Deed Recorded: Book: Page: Volume: Instrument: Docket Land Record Comments: Miscellaneous Comments: Legal Description:	4/22/2021 NA na na na NA See Exhibit
Legal Current Owner:	Duke Realty Patterson LP
Parcel # / Property Identifier:	314-153-044, 314-153-046
Comments:	See Exhibit
Deed 4:	
Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume: Instrument: Docket Land Record Comments: Miscellaneous Comments: Legal Description: Legal Current Owner: Parcel # / Property Identifier: Comments:	deed Duke Realty Patterson LP Lilly E Deng 4/20/2021 4/22/2021 NA na na na NA See Exhibit Duke Realty Patterson LP 314-153-030 See Exhibit
Deed 5:	
Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume: Instrument: Docket Land Record Comments:	deed Duke Realty Patterson LP Melanie AConnell 4/7/2021 4/21/2021 NA na na na NA

Miscellaneous Comments:

Legal Description:	See Exhibit
Legal Current Owner:	Duke Realty Patterson LP
Parcel # / Property Identifier:	314-153-031
Comments:	See Exhibit

Deed 6:

Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume: Instrument: Docket Land Record Comments:	deed Duke Realty Patterson LP Geoffrey MK Bonny castle Jia Lu 1/8/2021 1/13/2021 NA na na na NA
Legal Description:	See Exhibit
Legal Current Owner:	Duke Realty Patterson LP
Parcel # / Property Identifier:	314-153-032
Comments:	See Exhibit
Deed 7:	
Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume: Instrument: Docket Land Record Comments: Miscellaneous Comments:	deed Duke Realty Patterson LP Susan Burnside Trustee etal 4/6/2021 5/5/2021 NA na na na NA
Legal Description:	See Exhibit
Legal Current Owner:	Duke Realty Patterson LP
Parcel # / Property Identifier:	314-153-048

Comments:	
-----------	--

See Exhibit

Deed 8:

Deed 8:	
Type of Deed:	deed
Title is vested in:	Chin Yen Hung Trustee
Title received from:	Chin Yen Hung
Deed Dated	3/31/2008
Deed Recorded:	2/26/2009
Book:	NA
Page:	na
Volume:	na
Instrument	na
Docket	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Chin Yen Hung Trustee
Parcel # / Property Identifier:	314-160-005
Comments:	See Exhibit
Comments: Deed 9:	See Exhibit
Deed 9:	See Exhibit deed
Deed 9: Type of Deed:	deed
Deed 9: Type of Deed: Title is vested in:	deed GNA Realty LLC
Deed 9: Type of Deed: Title is vested in: Title received from:	deed GNA Realty LLC Velur Land Investments Inc
Deed 9: Type of Deed: Title is vested in: Title received from: Deed Dated	deed GNA Realty LLC Velur Land Investments Inc 4/13/2004
Deed 9: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded:	deed GNA Realty LLC Velur Land Investments Inc 4/13/2004 5/6/2004
Deed 9: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book:	deed GNA Realty LLC Velur Land Investments Inc 4/13/2004 5/6/2004 NA
Deed 9: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page:	deed GNA Realty LLC Velur Land Investments Inc 4/13/2004 5/6/2004 NA na
Deed 9: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume:	deed GNA Realty LLC Velur Land Investments Inc 4/13/2004 5/6/2004 NA na na
Deed 9: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume: Instrument	deed GNA Realty LLC Velur Land Investments Inc 4/13/2004 5/6/2004 NA na na na
Deed 9: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume: Instrument: Docket	deed GNA Realty LLC Velur Land Investments Inc 4/13/2004 5/6/2004 NA na na na
Deed 9: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume: Instrument: Docket Land Record Comments:	deed GNA Realty LLC Velur Land Investments Inc 4/13/2004 5/6/2004 NA na na na

Parcel # / Property Identifier: 314-160-006

Comments:

Deed 10:

Type of Deed:	deed
Title is vested in:	Hsiu Mei Yang
Title received from:	Velur Land Investments Inc
Deed Dated	4/16/2004

See Exhibit

Deed Recorded:	5/13/2004
Book:	NA
Page:	na
Volume:	na
Instrument	na
Docket	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Hsiu Mei Yang
Parcel # / Property Identifier:	314-160-007
Comments:	See Exhibit
ed 11:	
Type of Deed:	deed
Title is vested in:	Jun & Toshiko Yokota Kensuke Daniel Yokota
Title received from:	Velur Land Investments Inc
Deed Dated	4/13/2004
Deed Recorded:	5/3/2004
Book:	NA
Page:	na
Volume:	
volume.	na

Dee

	Title received from:	Velur Land Investments Inc
	Deed Dated	4/13/2004
	Deed Recorded:	5/3/2004
	Book:	NA
	Page:	na
	Volume:	na
	Instrument	na
	Docket	NA
	Land Record Comments:	
	Miscellaneous Comments:	
	Legal Description:	See Exhibit
	Legal Current Owner:	Jun & Toshiko Yokota Kensuke Daniel Yokota
	Parcel # / Property Identifier:	314-160-008
	Comments:	See Exhibit
De	Comments: ed 12:	See Exhibit
De	ed 12:	See Exhibit deed
De		
De	ed 12: Type of Deed:	dæd Roger Gill
De	ed 12: Type of Deed: Title is vested in:	deed
De	ed 12: Type of Deed: Title is vested in: Title received from:	deed Roger Gill Won Kyun Moon
De	ed 12: Type of Deed: Title is vested in: Title received from: Deed Dated	deed Roger Gill Won Kyun Moon 9/24/2019
De	ed 12: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded:	deed Roger Gill Won Kyun Moon 9/24/2019 10/5/2019
De	ed 12: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book:	deed Roger Gill Won Kyun Moon 9/24/2019 10/5/2019 NA
De	ed 12: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page:	deed Roger Gill Won Kyun Moon 9/24/2019 10/5/2019 NA na
De	ed 12: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume:	deed Roger Gill Won Kyun Moon 9/24/2019 10/5/2019 NA na na
De	ed 12: Type of Deed: Title is vested in: Title received from: Deed Dated Deed Recorded: Book: Page: Volume: Instrument	deed Roger Gill Won Kyun Moon 9/24/2019 10/5/2019 NA na na na

Miscellaneous Comments:

Legal Description:	See Exhibit
Legal Current Owner:	Roger Gill
Parcel # / Property Identifier:	314-160-009
Comments:	See Exhibit

Deed 13:

Type of Deed:	deed
Title is vested in:	Feng Mei Ruin Di Wang
Title received from:	Velur Land Investments LLC
Deed Dated	4/1/2004
Deed Recorded:	4/20/2004
Book:	NA
Page:	na
Volume:	na
Instrument	na
Docket	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Feng Mei Ruan Di Wang
Parcel # / Property Identifier:	314-160-010
Comments:	See Exhibit
Deed 14:	
Type of Deed:	deed
Title is vested in:	Armando & Maria E Lovera Jesus & Maricela Mendoza
Title received from:	Armando Lovera Jesus Mendoza
Deed Dated	11/1/2007
Deed Recorded:	12/4/2007
Book:	na
Page:	na
Volume:	NA
Instrument	na
Docket	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Armando & Maria E Lovera Jesus & Maricela Mendoza
Parcel # / Property Identifier:	314-160-011

See Exhibit

Deed 15:

Type of Deed:	deed
Title is vested in:	Lucia Deng
Title received from:	ZieZhang
Deed Dated	5/14/2021
Deed Recorded:	6/9/2021
Book:	NA
Page:	na
Volume:	na
Instrument	na
Docket	NA
Land Record Comments:	
Miscellaneous Comments:	
Legal Description:	See Exhibit
Legal Current Owner:	Lucia Deng
Parcel # / Property Identifier:	314-160-012
Comments:	See Exhibit

Deed Exhibit 1

RECORDING REQUESTED BY: First American Title Company, National Commercial Services	Page 1 of 5 Recorded in Official Records County of Riverside Peter Aldana Assessor-County Clerk-Recorder
AND WHEN RECORDED MAIL TO: First American Title Insurance Company Chicago National Commercial Services 30 North LaSalle Street, Suite 2700 Chicago, Illinois 60602 Attn: Melanie Watson	**This document was electronically submitted to the County of Riverside for recording** Receipted by: MARIA #309
MAIL TAX STATEMENTS TO: Duke Realty LP c/o Real Estate Tax Advisors LLC P.O. Box 40509	DTT approved by NB
Indianapolis, IN 46240	THIS SPACE FOR RECORDER'S USE ONLY:
APN#: 314-153-015; 314-153-016; 314-153-017; 314-153-018; 314-153-022; 314-153-023; 314-153-024; 314-153-025; 314-153-026; 314-153-027; 314-153-028; 314-153-029; 314-153-033; 314-153-034; 314-153-035; 314-153-036; 314-153-037; 314-153-038; 314-153-039; 314-153-040; and 314-153-042	File No.: NCS-1039684
TRA 008-051 GRANT DE	ED
The Undersigned Grantor(s) Declare(s): DOCUMENTARY TRANSFER TAX \$ 21, [~] computed on the consideration or full value of pro [] computed on the consideration or full value less va [] unincorporated area; [] City of Perris, and EXEMPT FROM BUILDING HOMES AND JOBS ACTS FEE PER GOVE	perty conveyed, OR alue of liens and/or encumbrances remaining at time of sale,
FOR A VALUABLE CONSIDERATION, RECEIPT OF LLC, a California limited liability company (together, "Grantor"), I Delaware limited partnership ("Grantee"), all of Grantor's right, tit Perris, County of Riverside County, State of California, as more p made a part hereof.	hereby grants to DUKE REALTY PATTERSON LP, a le and interest in that certain real property in the City of
This Deed and the conveyance hereinabove set forth is exe those matters set forth on <u>Exhibit "B"</u> , incorporated by reference to survey as of the date hereof.	
DATED: January <u>8</u> , 2021	

DOC **# 2021-0021360** 01/13/2021 08:00 AM Fees: \$26.00

PLEASE SEE PAGE TWO FOR GRANTOR'S SIGNATURE.

MAIL TAX STATEMENTS TO PARTY SHOWN BELOW: IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE:

.

GRANT DEED - PAGE TWO GRANTOR SIGNATURE:

LINKUP LLC, a California limited liability company

By: Name: lan Manager Title:

[Notary acknowledgement on following page]

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ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of <u>People's Republic of</u> China) Municipality of Shanghai)SS:	
Consulate General of the States of America)	Tyrell Walker Vice Consul U.S. Consulate General Shanghai
On <u>18 DEC 2020</u> , befor	re me, (insert name of notary)
	Han, who proved to me on the basis
-	his authorized capacity, and that by his signature on
the instrument he executed the instrument on beh	alf of the
•	under the laws of the State of California that the
foregoing paragraph is true and correct.	THE WALLS
WITNESS my hand and official seal.	
Signature	(Seal)
	American Consulate General PRESIDENTIAL COMMISSIONS DO NOT FADIDE

EXHIBIT "A" LEGAL DESCRIPTION

The Land referred to herein below is situated in the City of Perris, County of Riverside, State of California, and is described as follows:

PARCEL A:

LOTS 13, 14, 15, 16 AND 17, BLOCK A OF GOLDEN VALLEY FARMS, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH THOSE PORTIONS OF CALIFORNIA STREET THAT WOULD PASS WITH A CONVEYANCE OF SAID LOT, AS PER MAP RECORDED IN BOOK 14 OF MAPS, PAGE 78, IN THE OFFICE OF THE COUNTY RECORDED OF SAID COUNTY.

EXCEPTING THOSE PORTIONS CONTAINED IN THE DEED TO THE UNITED STATES OF AMERICA RECORDED JANUARY 31, 1995 AS INSTRUMENT NO. 032244 IN THE RECORDS OF THE RIVERSIDE COUNTY RECORDER'S OFFICE.

PARCEL B:

LOTS 1, 2, 3, 4, 5, 6, 7, 8, 13, 14, 15, 16, 17, 18, 19 AND 20, BLOCK D OF GOLDEN VALLEY FARMS, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH THOSE PORTIONS OF CALIFORNIA STREET, NANCE STREET AND PATTERSON AVENUE THAT WOULD PASS WITH A CONVEYANCE OF SAID LOTS, AS PER MAP RECORDED IN BOOK 14 OF MAPS, PAGE 78, RECORDS OF RIVERSIDE COUNTY.

EXCEPTING THOSE PORTIONS CONTAINED IN THE DEED TO THE UNITED STATES OF AMERICA RECORDED JANUARY 31, 1995 AS INSTRUMENT NO. 032244 IN THE RECORDS OF THE RIVERSIDE COUNTY RECORDER'S OFFICE.

For conveyancing purposes only: APN 314-153-015 (Affects Lot 14 of Parcel A);

314-153-016 (Affects Lot 15 of Parcel A); 314-153-017 (Affects Lot 16 of Parcel A); 314-153-018 (Affects Lot 17 of Parcel A); 314-153-022 (Affects Lot 1 of Parcel B); 314-153-023 (Affects Lot 2 of Parcel B); 314-153-024 (Affects Lot 3 of Parcel B); 314-153-025 (Affects Lot 4 of Parcel B); 314-153-026 (Affects Lot 5 of Parcel B); 314-153-027 (Affects Lot 6 of Parcel B); 314-153-028 (Affects Lot 7 of Parcel B); 314-153-029 (Affects Lot 8 of Parcel B); 314-153-033 (Affects Lot 13 of Parcel B); 314-153-034 (Affects Lot 14 of Parcel B); 314-153-035 (Affects Lot 15 of Parcel B); 314-153-036 (Affects Lot 16 of Parcel B); 314-153-037 (Affects Lot 17 of Parcel B); 314-153-038 (Affects Lot 18 of Parcel B); 314-153-039 (Affects Lot 19 of Parcel B);

314-153-040 (Affects Lot 20 of Parcel B); and 314-153-042 (Affects Lot 13 of Parcel A)

EXHIBIT "B"

PERMITTED EXCEPTIONS

- 1. General and special taxes and assessments for the fiscal year <u>2020 · 2021</u>, a lien not yet due or payable.
- 2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.
- 3. Water rights, claims or title to water, whether or not shown by the public records.
- 4. An easement for pipe lines and incidental purposes, recorded December 14, 1923 in Book 589 of Deeds, Page 504.
- Covenants, conditions and restrictions and the reservation of blanket easements for the conveyance of water, common to said tract, as set forth in the Deed recorded June 7, 1933, in Book 126, Page 96, Official Records, and other Deeds of record.
- 6. Covenants, conditions, restrictions and easements in the document recorded October 23, 1933 as Instrument No. 885 in Book 144 Page 217 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 3604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.
- 7. Covenants, conditions, restrictions and easements in the document recorded January 08, 1937 as Instrument No. 370 of Official Records, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status, national origin, sexual orientation, marital status, ancestry, source of income or disability, to the extent such covenants, conditions or restrictions violate Title 42, Section 604(c), of the United States Codes. Lawful restrictions under state and federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status.
- 8. The effect of a map purporting to show the land and other property, filed Book 134 Page 48 through 50 of Record of Surveys.

Deed Exhibit 2

RECORDING REQUESTED	BY:		
First American Title Company,	National	Commercial	Services

AND WHEN RECORDED MAIL TO:

First American Title Insurance Company Chicago National Commercial Services 30 North LaSalle Street, Suite 2700 Chicago, Illinois 60602 Attn: Melanie Watson

MAIL TAX STATEMENTS TO:

Duke Realty LP c/o Real Estate Tax Advisors LLC P.O. Box 40509 Indianapolis, IN 46240

DOC # 2021-0021313

01/13/2021 08:00 AM Fees: \$29.00 Page 1 of 6 **Recorded in Official Records** County of Riverside Peter Aldana Assessor-County Clerk-Recorder

This document was electronically submitted to the County of Riverside for recording Receipted by: MARIA #309

THIS SPACE FOR RECORDER'S USE ONLY:

APN#: 314-153-019;	314-153	3-020; and 314-153-021	File No.: NCS-1039685
TRA 008-051			
		GRANT DEED	
The Undersigned Gra	antor(s)	Declare(s): DOCUMENTARY TRANSFER TAX \$ 3,157.00	; CITY TRANSFER TAX \$;
[}	computed on the consideration or full value of property conve	
[]	computed on the consideration or full value less value of liens	and/or encumbrances remaining at time of sale,
[]	unincorporated area; [] City of Perris, and	
EXEM	PT FRO	M BUILDING HOMES AND JOBS ACTS FEE PER GOVERNMENT C	ODE 27388.1(a)(2)

FOR A VALUABLE CONSIDERATION, RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED, ROBERT A. GIBEL & JOAN K. GIBEL, Trustees of The Gibel Family Trust dated August 5, 2004 (together, "Grantor"), hereby grants to DUKE REALTY PATTERSON LP, a Delaware limited partnership ("Grantee"), all of Grantor's right, title and interest in that certain real property in the City of Perris, County of Riverside County, State of California, as more particularly described in Exhibit "A" attached hereto and made a part hereof.

This Deed and the conveyance hereinabove set forth is executed by Grantor and accepted by Grantee subject to those matters set forth on Exhibit "B", incorporated by reference to this document, and apparent from an inspection or survey as of the date hereof.

DATED: January 8, 2021

PLEASE SEE PAGE TWO FOR GRANTOR'S SIGNATURE.

MAIL TAX STATEMENTS TO PARTY SHOWN BELOW; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE:

.

GRANT DEED - PAGE TWO GRANTOR SIGNATURE:

Robert A. Gibel, Trustee of The Gibel Family Trust dated August 5, 2004

Joan K. Gibel, Trustee, Trustee of The Gibel Family Trust

dated August 5, 2004

[Notary acknowledgement on following page]

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A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California County of <u>San Diego</u>

On <u>Dec 31, 2020</u> before me, <u>Robert Giran many</u>, who Notary Public, personally appeared <u>Robert Allen Gibel</u>, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official scal-

Signature

(Seal)

ROBERT GIRAMMA Commission No. 2237178 NOTARY PUBLIC - CALIFORNIA SAN DIEGO COUNTY Commission Expires April 7, 2022

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California County of San Diego

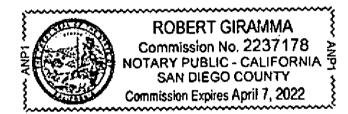
On <u>Dec 31</u>, 2020 before me, <u>Robert Giramma</u>, Notary Public, personally appeared <u>Joan Kathleen Gibel</u>, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s). or the entity upon behalf of which the person(s) acted. executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

(Seal)



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EXHIBIT "A" LEGAL DESCRIPTION

The Land referred to herein below is situated in the City of Perris, County of Riverside, State of California and is described as follows:

LOTS 18, 19 AND 20 IN BLOCK "A" OF GOLDEN VALLEY FARMS, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH THOSE PORTIONS OF CALIFORNIA STREET THAT WOULD PASS WITH A CONVEYANCE OF SAID LOTS, AS PER MAP RECORDED IN BOOK 14, PAGE 78 OF MAPS, RECORDS OF RIVERSIDE COUNTY

For conveyancing purposes only: APN(S) 314-153-019(Affects Lot 18), 314-153-020(Affects Lot 19) and 314-153-021(Affects Lot 20)

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EXHIBIT "B"

PERMITTED EXCEPTIONS

- 1. General and special taxes and assessments for the fiscal year <u>2020-2012</u>, a lien not yet due or payable. Second Installment
- 2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.
- 3. Water rights, claims or title to water, whether or not shown by the public records.
- 4. An easement for pipe lines and incidental purposes, recorded December 14, 1923 in Book 589 of Deeds, Page 504.
- 5. The terms and provisions contained in the document entitled "Notice High Water Pressure Condition" recorded December 21, 2005 as Instrument No. 2005-1053605 of Official Records.

Deed Exhibit 3

DOC # 2021-0249921

04/22/2021 08:00 AM Fees: \$26.00 Page 1 of 5 Recorded in Official Records County of Riverside Peter Aldana Assessor-County Clerk-Recorder

This document was electronically submitted to the County of Riverside for recording Receipted by: TONI #642

File No.: NCS-1038553

THIS SPACE FOR RECORDER'S USE ONLY:

APN#: 314-153-044 and 314-153-046

TRA: 008-051

GRANT DEED

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The Undersigned	Grantor(s) Declare(s): DOCUMENTARY TRANSFER TAX \$	_ <u>462.00</u> _;	CITY TRANSFER TAX \$.0.00;
Г	Χı	computed on the consideration or full value of	f property conveyed,	OR	

computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale, 1

unincorporated area; [X] City of Perris, and 1

EXEMPT FROM BUILDING HOMES AND JOBS ACTS FEE PER GOVERNMENT CODE 27388.1(a)(2)

FOR A VALUABLE CONSIDERATION, RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED BERNARDITA PASCUAL, as Trustee of the Bernardita Pascual Family Trust dated 7/1/11 ("Grantor"), hereby grants to DUKE REALTY PATTERSON LP, a Delaware limited partnership ("Grantee"), all of Grantor's right, title and interest in that certain real property in the City of Perris, County of Riverside County, State of California, as more particularly described in Exhibit "A" attached hereto and made a part hereof.

This Deed and the conveyance hereinabove set forth is executed by Grantor and accepted by Grantee subject to those matters set forth on Exhibit "B", incorporated by reference to this document, and apparent from an inspection or survey as of the date hereof.

DATED: April <u>19</u>,2021

RECORDING REQUESTED BY:

First American Title Company, National Commercial Services

AND WHEN RECORDED MAIL TO:

First American Title Insurance Company Chicago National Commercial Services Chicago, Illinois 60602

30 North LaSalle Street, Suite 2700

Attn: Melanie Watson

MAIL TAX STATEMENTS TO:

Duke Realty LP c/o Real Estate Tax Advisors LLC P.O. Box 40509

Indianapolis, IN 46240

PLEASE SEE PAGE TWO FOR GRANTOR'S SIGNATURE.

MAIL TAX STATEMENTS TO PARTY SHOWN BELOW; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE:

GRANT DEED - PAGE TWO **GRANTOR SIGNATURE:**

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Bernardita Pascual, Trustee of the Bernardita Pascual

Family Trust, dated 7/1/11

[Notary acknowledgement on following page]

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A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California County of LOS Angeles Pril 6 tone before me, enni On *I* BERNARDITA Notary Public, personally appeared P4SC who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their

the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

l certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal. Signature

(Seal)



EXHIBIT "A" LEGAL DESCRIPTION

The Land referred to herein below is situated in the City of Perris, County of Riverside, State of California and is described as follows:

LOTS 11 AND 12, BLOCK A OF GOLDEN VALLEY FARMS, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH PORTIONS OF CALIFORNIA STREET AND NEVADA AVENUE THAT WOULD PASS A CONVEYANCE OF SAID LOTS, AS PER MAP RECORDED IN BOOK 14 OF MAPS, PAGE 78, RECORDS OF RIVERSIDE COUNTY.

EXCEPTING THEREFROM THAT PORTION OF LOTS 11 AND 12 CONVEYED TO THE UNITED STATES OF AMERICA, BY DEED RECORDED JANUARY 31, 1995, AS INSTRUMENT NO. 32244, OFFICIAL RECORDS.

For conveyancing purposes only: APN 314-153-044 (Affects Lot 12); 314-153-046 (Affects Lot 11)

EXHIBIT "B"

PERMITTED EXCEPTIONS

- 1. General and special taxes and assessments for the fiscal year 2021-2022, a lien not yet due or payable.
- 2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.
- 3. Water rights, claims or title to water, whether or not shown by the public records.
- 4. An easement for pipe lines and incidental purposes, recorded December 14, 1923 in Book 589 of Deeds, Page 504.

Deed Exhibit 4

DOC # 2021-0249735

04/22/2021 08:00 AM Fees: \$20.00 Page 1 of 3 Recorded in Official Records County of Riverside Peter Aldana Assessor-County Clerk-Recorder

This document was electronically submitted to the County of Riverside for recording Receipted by: MARIA VICTORIA #411

File No.: NCS

RECORDING REQUESTED BY AND WHEN RECORDED MAIL TO:

First American Title Insurance Company Chicago National Commercial Services 30 North LaSalle Street, Suite 2700 Chicago, Illinois 60602 Attn: Melanie Watson

AND MAIL TAX STATEMENTS TO:

Duke Realty LP c/o Real Estate Tax Advisors LLC P.O. Box 40509 Indianapolis, IN 46240

GRANT DEED

APN: 314-153-030 TRA: 008-051

The Undersigned Grantor Declares:

DOCUMENTARY TRANSFER TAX \$2,343.00;

CITY TRANSFER TAX \$0;

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[X] computed on the consideration or full value of property conveyed, OR

-] computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale,
- [] unincorporated area; [X] City of Perris, and

EXEMPT FROM BUILDING HOMES AND JOBS ACTS FEE PER GOVERNMENT CODE 27388.1(a)(2)

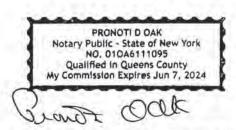
FOR A VALUABLE CONSIDERATION, RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED, LILLY E. DENG, a married woman, as her sole and separate property ("Grantor"), hereby grants to DUKE REALTY PATTERSON LP, a Delaware limited partnership ("Grantee"), all of Grantor's right, title and interest in that certain real property in the City of Perris, County of Riverside County, State of California, as more particularly described in Exhibit "A" attached hereto and made a part hereof (the "Property").

UNDER AND SUBJECT TO all easements, rights of way, reservations, restrictions, conditions and matters of record that are contained and/or conveyed in prior instruments of record or are apparent upon inspection of the Property described herein.

Date: April 20, 2021

MAIL TAX STATEMENTS AS DIRECTED ABOVE.

GRANT DEED - PAGE TWO GRANTOR SIGNATURE:



GRANTOR: Lilly E. Deng

The undersigned is the spouse of the Grantor and by his signature below joins in the transfer of all of his right, title and interest in the Property to the Grantee.

PRONOTI D OAK Notary Public - State of New York NO. 010A6111095 Qualified in Queens County My Commission Expires Jun 7, 2024	Long Deng
Lean Stall	ACKNOWLEDGMENT
STATE OF NEW YORK)
COUNTY OF NASSAU	

On the <u>l</u> (day of April, in the year 2021, before me, the undersigned, personally appeared Lilly E. Deng and Long Deng, personally known to me or proved to me on the basis of satisfactory evidence to be the individuals whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their capacities, and that by their signatures on the instrument, the individuals, or the person upon behalf of which the individuals acted, executed the instrument.

Lund	Oour
Notary Public	
Printed Name: 10000	the Odur
My Commission Expires:	6/7/24

EXHIBIT A

LEGAL DESCRIPTION

The Land referred to herein below is situated in the City of Perris, County of Riverside, State of California and is described as follows:

LOT 9 OF BLOCK "D" OF GOLDEN VALLEY FARMS, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 14, PAGE 78 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

For conveyancing purposes only: APN 314-153-030

Deed Exhibit 5

DOC # 2021-0246801

04/21/2021 08:00 AM Fees: \$26.00 Page 1 of 5 Recorded in Official Records County of Riverside Peter Aldana Assessor-County Clerk-Recorder

This document was electronically submitted to the County of Riverside for recording Receipted by: LISA #580

THIS SPACE FOR RECORDER'S USE ONLY

RECORDING REQUESTED	DBX:
irst American Title Company	National Commercial Service

AND WHEN RECORDED MAIL TO: First American Title Insurance Company Chicago National Commercial Services 30 North LaSalle Street, Suite 2700 Chicago, Illinois 60602 Attn: Melanie Watson

MAIL TAX STATEMENTS TO: Duke Realty LP c/o Real Estate Tax Advisors LLC P.O. Box 40509 Indianapolis, IN 46240

APN#: 314-153-031

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TRA: 008-051

File No.: NCS-1038552

GRANT DEED

586.85 ; CITY TRANSFER TAX \$ 0.00 The Undersigned Grantor(s) Declare(s): DOCUMENTARY TRANSFER TAX \$ ٢ x 1

computed on the consideration or full value of property conveyed, OR

computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale, 1

unincorporated area; [x] City of Perris, and 1

EXEMPT FROM BUILDING HOMES AND JOBS ACTS FEE PER GOVERNMENT CODE 27388.1(a)(2)

FOR A VALUABLE CONSIDERATION, RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED, MELANIE A. CONNELL, a married woman, as her sole and separate property ("Grantor"), hereby grants to DUKE REALTY PATTERSON LP, a Delaware limited partnership ("Grantee"), all of Grantor's right, title and interest in that certain real property in the City of Perris, County of Riverside County, State of California, as more particularly described in Exhibit "A" attached hereto and made a part hereof.

This Deed and the conveyance hereinabove set forth is executed by Grantor and accepted by Grantee subject to those matters set forth on Exhibit "B", incorporated by reference to this document, and apparent from an inspection or survey as of the date hereof.

DATED: April

PLEASE SEE PAGE TWO FOR GRANTOR'S SIGNATURE.

MAIL TAX STATEMENTS TO PARTY SHOWN BELOW; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE:

GRANT DEED - PAGE TWO GRANTOR SIGNATURE:

Juni A. Cenacel Melanie A. Connell

[Notary acknowledgement on following page]

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness. accuracy, or validity of that document.

State of Cattfornia County of 4

On

before me Notary Public, personally appeared_

Notary Public, personally appeared <u>Mclanic A consell</u>, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

(Seal)

Commonwealth of Pennsylvania - Notary Seal Jason Handyside, Notary Public **Butler County** My commission expires January 24, 2023 Commission number 1339905 Member, Pennaylvania Association of Notaries

lommesen Expis,

EXHIBIT "A" LEGAL DESCRIPTION

The Land referred to herein below is situated in the City of Perris, County of Riverside, State of California and is described as follows:

LOT 11 BLOCK D OF GOLDEN VALLEY FARMS, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH THOSE PORTIONS OF NANCE STREET AND NEVADA AVENUE THAT WOULD PASS WITH A CONVEYANCE OF SAID LOTS, AS PER MAP RECORDED IN BOOK 14 OF MAPS, PAGE 78, RECORDS OF RIVERSIDE COUNTY.

For conveyancing purposes only: APN 314-153-031

EXHIBIT "B"

PERMITTED EXCEPTIONS

- General and special taxes and assessments for the fiscal year 2021-2022, a lien not yet due or payable.
- 2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.
- 3. Water rights, claims or title to water, whether or not shown by the public records.
- An easement for pipe lines and incidental purposes, recorded December 14, 1923 in Book 589 of Deeds, Page 504.
- An easement for pipe lines and incidental purposes, recorded June 28, 1979 as instrument No. 135182 of Official Records.

Deed Exhibit 6

DOC # 2021-0021315

01/13/2021 08:00 AM Fees: \$29.00 Page 1 of 6 Recorded in Official Records County of Riverside Peter Aldana Assessor-County Clerk-Recorder

This document was electronically submitted to the County of Riverside for recording Receipted by: LISA #580

THIS SPACE FOR RECORDER'S USE ONLY:

APN#: 314-153-032

TRA 008-051

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GRANT DEED

The Undersigned Grantor(s) Declare(s): DOCUMENTARY TRANSFER TAX \$_____; CITY TRANSFER TAX \$_____;

] computed on the consideration or full value of property conveyed, OR

] computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale,

unincorporated area; [] City of Perris, and

EXEMPT FROM BUILDING HOMES AND JOBS ACTS FEE PER GOVERNMENT CODE 27388.1(a)(2)

FOR A VALUABLE CONSIDERATION, RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED, GEOFFREY M. K. BONNYCASTLE and JIA LU, as husband and wife as Joint Tenants (together, "Grantor"), hereby grants to DUKE REALTY PATTERSON LP, a Delaware limited partnership ("Grantee"), all of Grantor's right, title and interest in that certain real property in the City of Perris, County of Riverside County, State of California, as more particularly described in Exhibit "A" attached hereto and made a part hereof.

This Deed and the conveyance hereinabove set forth is executed by Grantor and accepted by Grantee subject to those matters set forth on <u>Exhibit "B"</u>, incorporated by reference to this document, and apparent from an inspection or survey as of the date hereof.

DATED: January 8, 2021

PLEASE SEE PAGE TWO FOR GRANTOR'S SIGNATURE.

MAIL TAX STATEMENTS TO PARTY SHOWN BELOW; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE:

RECORDING REQUESTED BY: First American Title Company, National Commercial Services

AND WHEN RECORDED MAIL TO: First American Title Insurance Company Chicago National Commercial Services 30 North LaSalle Street, Suite 2700 Chicago, Illinois 60602 Attn: Melanie Watson

MAIL TAX STATEMENTS TO: Duke Realty LP c/o Real Estate Tax Advisors LLC P.O. Box 40509 Indianapolis, IN 46240

File No.: NCS-1038551

¥1.

GRANT DEED - PAGE TWO GRANTOR SIGNATURE:

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Soundcastle.

Geoffrey M. K. Bonnycastle

FOR 2 Jia Lu

[Notary acknowledgement on following page]

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California County of <u>SAAL DIEGO</u>

On <u>JAN 05</u>, <u>MD1</u> before me, <u>ENAEAJEET CINEN</u>, <u>NDFALY l'4Byic</u> Notary Public, personally appeared <u>GEOFFLEY M. BONNY CASTLE</u> — who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that (he/she/they executed the same in (hisher/their authorized capacity(jes), and that by (hisher/their signature(s) on the instrument the person(s); or the entity upon behalf of which the person(s) acted, executed the instrument.

Icertify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official scal.

Signature

(Scal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California County of SAN DICR 0

On JAN OS, 2021 before me. INDENSEET SINTH NOTART PUBLIC. Notary Public, personally appeared JIA UU - , who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he(she/hey executed the same in his/her/heir authorized capacity(ies), and that by his/her/heir signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Icertify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

(Seal)

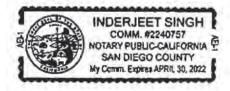


EXHIBIT "A" LEGAL DESCRIPTION

The Land referred to herein below is situated in the City of Perris, County of Riverside, State of California and is described as follows:

LOT 12, BLOCK D OF GOLDEN VALLEY FARMS, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH THOSE PORTIONS OF NANCE STREET, THAT WOULD PASS WITH A CONVEYANCE OF SAID LOT, AS PER MAP RECORDED IN BOOK 14 OF MAPS, PAGE 78, RECORDS OF RIVERSIDE COUNTY.

For conveyancing purposes only: APN 314-153-032

EXHIBIT "B"

PERMITTED EXCEPTIONS

- 1. General and special taxes and assessments for the fiscal year ²⁰²⁰⁻²⁰²¹/_{Second Installment}, a lien not yet
- 2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.
- 3. Water rights, claims or title to water, whether or not shown by the public records.
- An easement for ingress and egress over said land and incidental purposes, recorded as Book 14, Page 78 of Maps of Official Records.
- An easement for pipe lines and incidental purposes, recorded December 14, 1923 in Book 589 of Deeds, Page 504.
- An easement for pipe lines and incidental purposes, recorded June 28, 1979 as instrument No. 135182 of Official Records.

DOC # 2021-0278797

05/05/2021 08:00 AM Fees: \$74.00 Page 1 of 11 Recorded in Official Records County of Riverside Peter Aldana Assessor-County Clerk-Recorder

This document was electronically submitted to the County of Riverside for recording Receipted by: MARIA #309

File No.: NCS-1038550

THIS SPACE FOR RECORDER'S USE ONLY:

APN#: 314-153-048

TRA: 008-051

GRANT DEED

The Undersig	ned (Grant	tor(s)	Declare(s): DOCUMENTARY TRANSFER TAX $\frac{537.90}{37.90}$; CITY TRANSFER TAX $\frac{0.00}{37.90}$;
	{	х]	computed on the consideration or full value of property conveyed, OR
	[]	computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale,
	[]	unincorporated area; $[X]$ City of Perris, and
	EXE	ЕМРТ		M BUILDING HOMES AND JOBS ACTS FEE PER GOVERNMENT CODE 27388.1(a)(2)

FOR A VALUABLE CONSIDERATION, RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED SUSAN BURNSIDE, as Trustee of THE BURNSIDE TRUST dated November 1st 2006, Eli G Anderson and Nicole Sheppard Anderson, Trustees of the Eli G. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22, 2020, Equity Trust Company Custodian FBO Peggy A. Renker, IRA, Equity Trust Company Custodian FBO Mary Klosterman, IRA, , ALL AS TENANTS IN COMMON (collectively, "Grantor"), hereby grants to DUKE REALTY **PATTERSON LP**, a Delaware limited partnership ("Grantee"), all of Grantor's right, title and interest in that certain real property in the City of Perris, County of Riverside County, State of California, as more particularly described in Exhibit "A" attached hereto and made a part hereof.

This Deed and the conveyance hereinabove set forth is executed by Grantor and accepted by Grantee subject to those matters set forth on Exhibit "B", incorporated by reference to this document, and apparent from an inspection or survey as of the date hereof.

DATED: April 6,2021

RECORDING REQUESTED BY: First American Title Company, National Commercial Services

AND WHEN RECORDED MAIL TO:

First American Title Insurance Company Chicago National Commercial Services 30 North LaSalleStreet, Suite2700. Chicago, Illinois 60602 Attn: Melanie Watson

MAIL TAX STATEMENTS TO: Duke Realty LP c/o Real Estate Tax Advisors LLC P.O. Box 40509

Indianapolis, IN 46240

PLEASE SEE PAGE TWO FOR GRANTOR'S SIGNATURE

MAIL TAX STATEMENTS TO PARTY SHOWN BELOW; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE:

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Susan Burnside, as Trustee of The Burnside Trust dated November 1, 2006

EliG. Anderson, as Trustee of the EliG. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22, 2020

Nicole Shepperd Anderson, as Trustee of the Eli G. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22

Equity Trust Company, Custodian, FBO Peggy A. Renker, IRA

By: Name: Title:

Equity Trust Company, Custodian, FBO Mary Klosterman, IRA

By:	
Name:	
Title:	

[Notary acknowledgements on following pages]

Susan Burnside, as Trustee of The Burnside Trust dated November 1, 2006

4. MA

Eli G. Anderson, as Trustee of the Eli G. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22, 2020

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Nicole Shepperd Anderson, as Trustee of the Eli G. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22

Equity Trust Company, Custodian, FBO Peggy A. Renker, IRA

By:	
Name:	
Title:	

Equity Trust Company, Custodian, FBO Mary Klosterman, IRA

By:	
Name:	
Title:	

[Notary acknowledgements on following pages]

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> Susan Burnside, as Trustee of The Burnside Trust dated November 1, 2006

Eli G. Anderson, as Trustee of the Eli G. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22, 2020

Nicole Shepperd Anderson, as Trustee of the Eli G. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22

Equity Trust Company, Custodian, FBO Peggy A. Renker, IRA

By: ______ Name: ______ Title:

Equity Trust Company, Custodian, FBO Mary Klosterman, IRA KEUN rttu By: IRI MATTHEW COLLIER Name: Corporate Alternate Signer Title:

[Notary acknowledgements on following pages]

-

Susan Burnside, as Trustee of The Burnside Trust dated November 1, 2006

Eli G. Anderson, as Trustee of the Eli G. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22, 2020

Nicole Shepperd Anderson, as Trustee of the Eli G. Anderson and Nicole Shepperd Anderson Revocable Living Trust dated May 22

Equity Trust Company, Custodian, FBO Peggy A. Renker, IRA By: Name: <u>MATTHEW COLLIER</u> Title: Corporate Alternate Signer

Equity Trust Company, Custodian, FBO Mary Klosterman, IRA

By:	
Name:	
Title:	

[Notary acknowledgements on following pages]

•



All-purpose Acknowledgment California

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California	
County of Riverside	····
On 04/22/2021 before me, <u>Claudia Arteaga</u> , N the officer),	Jotary PJLIic (here insert name and title of
personally appeared <u>Susan Burnsida</u>	
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal.	CLAUDIA ARTEAGA COMM. #2294681 NOTARY PUBLIC - CALIFORNIA RIVERSIDE COUNTY My Commission Expires 06/24/2023 Notary Seal
Signature	
For Bank Purposes Only	
Description of Attached Document	
Type or Title of Document Grant Deed	

Document Date 04 22 2021 Number of Pages 2

,

Signer(s) Other Than Named Above

Account Number (if applicable) <u>NA</u>



1

DSG5350CA/595577 (Rev 04 - 09/20)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Colorado State of California Jo County of <u>Penver</u>

On <u>April 9th 2021</u> before me, <u>JaJuan Owens</u> Notary Public, personally appeared <u>Eli G. Anderson & Nicole Shepperd Anderson</u> who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

Colorado l certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

(Seal)

JAJUAN OWENS NGTARY PUBLIC **STATE OF COLORADO** NOTARY ID 20204003089 MY COMMISSION EXPIRES 01/23/2024

. . . .

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A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

OHIO State of California CUYAHOGA

On

pril 09, 2021

LAURA G DEITZ

Notary Public, personally appeared Matthew Collier. CORPORATE ALTERNATE SIGNER who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) (is Pare-subscribed to the within instrument and acknowledged to me that he she/they executed the same in hisher/their authorized capacity(ies), and that by higher/their-signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

before me.

OHIO

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal. Laura G Deitz Notary Public - State of Ohio 2020-RE-809865 Signature (Seal My Commission Expires 01/14/2025

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State of California OHIO
County of <u>CUYAHOGA</u>
On <u>April 15, 2021</u> before me, <u>LAURA G DEITZ</u> ,
Notary Public, personally appeared Matthew Collier corporate ALTERNATE SIGNER , who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is are subscribed
to-the within instrument and acknowledged to me that he she/they executed the same in his/her/their-authorized capacity(ies), and that by (his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
(I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.
WITNESS my hand anthofficial seal,
Signature (Seal)
Signature(Seal)
Laura G Deitz
Notary Public - State of Ohio
2020-RE-809865 My Commission Expires
OF 01/14/2025

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EXHIBIT "A" LEGAL DESCRIPTION

The Land referred to herein below is situated in the City of Perris, County of Riverside, State of California and is described as follows:

LOT 10, BLOCK D OF GOLDEN VALLEY FARMS, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH THAT PORTION OF CALIFORNIA STREET, NEVADA AVENUE THAT WOULD PASS WITH A CONVEYANCE OF SAID LOT, AS PER MAP RECORDED IN BOOK 14 OF MAPS, PAGE 78, RECORDS OF RIVERSIDE COUNTY.

EXCEPTING THEREFROM THAT PORTION OF LOT 10 CONVEYED TO THE UNITED STATES OF AMERICA, BY DEED RECORDED JANUARY 31, 1995, AS INSTRUMENT NO. 32244, OFFICIAL RECORDS.

For conveyancing purposes only: APN 314-153-048

EXHIBIT "B"

PERMITTED EXCEPTIONS

- 1. General and special taxes and assessments for the fiscal year 2021-2022, a lien not yet due or payable.
- 2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.
- 3. Water rights, claims or title to water, whether or not shown by the public records.
- 4. An easement for pipe lines and incidental purposes, recorded December 14, 1923 in Book 589 of Deeds, Page 504.
- 5. An easement for pipe lines and incidental purposes, recorded June 28, 1979 as Instrument No. 135182 of Official Records.

RECORDING REQUESTED BY: CHIN YEN HUNG

WHEN RECORDED, MAIL TO AND MAIL TAX STATEMENTS TO: Mr. Chin Yen Hung 19421 Sierra Linda Irvine, CA 92603

R υ PAGE SIZE DA MISC LONG RFD COPY M A 465 L 426 NCOR SMF NCHO The undersigned Grantor declares that this

conveyance transfers Grantor's interest to

C

DOC # 2009-0094672 02/26/2009 08:00A Fee:9.00 Page 1 of 1 Recorded in Official Records County of Riverside Larry W. Ward Assessor, County Clerk & Recorder

APN: 314-161-044-2

Grantor's Revocable Trust for no consideration. This transaction is exempt from the Documentary Transfer Tax pursuant to R & T Code §11936.

GRANT DEED TO A REVOCABLE TRUST

CHIN YEN HUNG, the GRANTOR, HEREBY GRANTS TO CHIN YEN HUNG, as Trustee of "The HCY Trust", dated March 31, 2008, the GRANTEE, all of his undivided interest in the following described real property in the County of Riverside, State of California:

LOT 3, BLOCK E OF GOLDEN VALLEY FARMS, IN THE COTY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH THOSE PORTIONS OF NANCE STREET AND ARIZONA STREET THAT WOULD PASS WITH A CONVEYANCE OF SAID LOTS, AS PER MAP RECORDED IN BOOK 14 OF MAPS, PAGE 78, RECORDS OF RIVERSIDE COUNTY.

The then-acting Trustee has the power and authority to encumber or otherwise to manage and dispose of the hereinabove described real property; including, but not limited to, the power to convey.

Executed on March 31, 2008, in Orange County, California.

YEN HUNG

STATE OF CALIFORNIA COUNTY OF ORANGE

On <u>March 31</u>, 2008, before me, <u>Chi Wen Kwon</u>, a Notary Public, personally appeared CHIN YEN HUNG, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

[SEAL]



RECORDING REQUESTED BY ORTHAMERICAN THEFT STREEWISE ORTHAMERICAN TITLE CO. Name GNA REALTY, LLC. Street C/O VELUR LAND INVESTMENTS, INC. P.O. BOX 5111	Gary L. Orso Assessor, County Clerk & Recorder		
City SHERMAN OAKS, CA 91413 State Zip	M S U PAGE SIZE DA PCOR NOCOR SMF MISC.		
LE ORDER NO. 3811939-22 ESCROW NO. V-15267	A R L COPY LONG REFUND NCHG EXAM		
A:008	Grant Deed		
□unincor Parcel No. <u>314-161-045-3</u> ⊠computed on full value	of property conveyed, or		
□ computed on full value FOR A VALUABLE CONSIDERATION, received VELUR LAND INVESTMENTS, INC., a Califi	e less value of liens or encumbrances remaining at time of sale, and ipt of which is hereby acknowledged, fornia Corporation.		
hereby GRANT(s) to GNA REALTY, LLC.	y of Perris, County of Riverside, State of California:		
LOT 4, BLOCK E OF GOLDEN VALLEY FARMS	, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF ONS OF NANCE STREET AND ARIZONA STREET THAT WOULD PASS MAP RECORDED IN BOOK 14 OF MAPS, PAGE 78, RECORDS OF		
Dated APR 13, 2004			
STATE OF CALIFORNIA } COUNTY OF LOS ANGELES } S.S.	VELUR LAND INVESTMENTS, INC.		
	By		
On <u>May 04, 2004</u> before me,	Lubor Hlavacek, President		
On May 04, 2004 before me, World Fente a Notary Public in and for said County and State, personally app			
Worku Fente	workij Fente Commission # 1266390 Notav Public - California Los Angeles County My Comm. Expires Jun 19, 2004		

MAIL TAX STATEMENTS TO PARTY SHOWN ON THE FOLLOWING LINE; IF NO PARTY, THEN MAIL AS DIRECTED ABOVE SAME AS ABOVE

ILLEGIBLE NOTARY SEAL DECLARATION

I CERTIFY UNDER PENALTY OF PERJURY THAT THE NOTARY SEAL ON THE DOCUMENTS TO WHICH THIS STATEMENT IS ATTACHED, READS AS FOLLOWS:

NAME OF NOTARY: WORKy Fente.
COMMISSION NUMBER: 1266390
COUNTY OF COMMISSION: LOS Angeles
DATE COMMISSION EXPIRES: JUNE 19 2004
PLACE OF EXECUTION OF THIS DECLARATION: <u>REDLANDS, CA</u>

NORTH AMERICAN TITLE COMPANY

SIGNATURE 0

TE

- CORRUG REQUESTED DV	DOC # 2004-0357820
RECORDING REQUESTED BY	05/13/2004 08:00A Fee:30.00 Page 1 of 2 Doc T Tax Paid
NORTH AMERICAN TITLE CO.	Recorded in Official Records County of Riverside
Name HSIU MEI YANG	्रम्याः Gary L. Orso Assessor, County Clerk & Recorder
OCONTILUD LAND INVESTMENTS INC	I TARATI ARTING RUDA THE RUTA COMPANY IN RUTA THE
Address P.O. BOX 5111	L LEBAR BERKE BERKE BIRGE BIRGE INDER LINDER LINDER LINDER LINDER LINDER
City SHERMAN OAKS, CA 91413	DAL PAGE SIZE DA PCOR NOCOR SMF MISC.
State Zıp	M S U PAGE SIZE DA PCOR NOCOR SMF MISC.
TITLE ORDER NO. 3813058-22 ESCROW NO. V-16277	A R L COPY LONG REFUND NCHG EXAM
	Grant Deed 30
TRA:008	7906\$20-3
THE UNDERSIGNED GRANTOR(s) DEC	CLARE(s)
	NSFER TAX is NO SHOW T porated area ⊠ City of Perris.
Parcel No.314-161-046-4	
Scomputed on full value	of property conveyed, or
□ computed on full value	e less value of liens or encumbrances remaining at time of sale, and
FOR A VALUABLE CONSIDERATION, rece	ipt of which is hereby acknowledged,
VELUR LAND INVESTMENTS, INC., a Cali	fornia Corporation.
hereby GRANT(s) to HSIU MEI YANG, an un the following described real property in the Cit	married woman as her sole and separate property. y of Perris, County of Riverside, State of California:
I A REAL AND THE TOTAL OF DOD TRONG OF NAME IN	, IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, E STREET AND ARIZONA STREET THAT WOULD PASS WITH A CONVEYANCE DOK 14 OF MAPS, PAGE 78, RECORDS OF RIVERSIDE COUNTY.
Dated <u>April 16, 2004</u>	VELUR LAND INVESTMENTS, INC.
STATE OF CALIFORNIA } COUNTY OF Los Argeles } S.S.	VELUR LAND INVESTMENTS, INC.
On May 10, 2004 before me,	By: Lubor Hlavacek, President
Florence Alexander a Notary Public in and for said County and State, personally and	neared
a Notary Public in and for said County and state, personally ap Lubor HLavacek	FLORENCE ALEXANDER
personally known to me (or proved to me on the basis of satisf evidence) to be the person(s) whose name(s) is/are subscribed	to the Commission # 1339212
within instrument and acknowledged to me that he/she/they ex	Los Angeles County
his/her/their signature(s) on the instrument the person(s), or the upon behalf of which the person(s) acted, executed the instrum	nent. My Comm. Expires Jan 21, 2006
WITNESS my hand and official seal	1. A star
Signature + DUPTLE /	(This area for official notarial scal)

MAIL TAX STATEMENTS TO PARTY SHOWN ON THE FOLLOWING LINE; IF NO PARTY, THEN MAIL AS DIRECTED ABOVE SAME AS ABOVE

sgrant

 $\left(\left(1, \frac{1}{2} \right) \right)$

ILLEGIBLE NOTARY SEAL DECLARATION

I CERTIFY UNDER PENALTY OF PERJURY THAT THE NOTARY SEAL ON THE DOCUMENTS TO WHICH THIS STATEMENT IS ATTACHED, READS **AS FOLLOWS:**

NAME OF NOTARY: FLORENCE ALEXANDER

COMMISSION NUMBER: 1339212

COUNTY OF COMMISSION: LOS ANGELES

DATE COMMISSION EXPIRES: JANUARY 21, 2006

PLACE OF EXECUTION OF THIS DECLARATION: <u>REDLANDS, CA</u>

NORTH AMERICAN TITLE COMPANY

Inn Shumway 5-12-04 DATE

NORTH AMERICAN TITLE CO.	
RECORDING REQUESTED BY AND WEEN RECORDED MAIL THIS DEED AND, UNLESS OTHERWISE SROWN BELOW, MAIL TAX STATEMENT TO	DOC # 2004-0326327 05/03/2004 08:00A Fee:10.00 Page 1 of 2 Doc T Tax Paid Recorded in Official Records County of Riverside
Name JUN YOKOTA, TRUSTEE AND TOSHIKO YOKOTA, TRUSTEE, ET AL Street C/O VELUR LAND INVESTMENTS, INC. Address P.O. BOX 5111	Gary L. Orso Assessor, County Clerk & Recorder
City SHERMAN OAKS, CA 91413	
State Zip	M S U PAGE SIZE DA PCOR NOCOR SMF MISC.
TITLE ORDER NO. 3811958-22 ESCROW NO. V-16270	L CM _
	A R L COPY LONG REFUND NCHG EXAM
-TRA-008	Grant Deed
□	SFER TAX is See NOS NOW PAPERS borated area ⊠ City of <u>Perris</u> of property conveyed, or eless value of liens or encumbrances remaining at time of sale, and pt of which is hereby acknowledged, bornia Corporation HKO YOKOTA, TRUSTEES OF THE YOKOTA FAMILY TRUST, DATED rest; KENSUKE DANIEL YOKOTA, a single man as his sole and separate
Dated April 13, 2004	
STATE OF CALIFORNIA }	VELUR LAND INVESTMENTS, INC.
COUNTY OF Los Angeles } S.S.	
On April 29, 2004 before me,	By:
Worku Fente	Lubor Hlavacek, President
a Notary Public in and for said County and State, personally an Libor Hlavacek	and the second
personally known to me (or proved to me on the basis of satisf evidence) to be the person(s) whose name(s) is/are subscribed within instrument and acknowledged to me that he/she/they ex the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the upon behalf of which the person(s) acted, executed the instrum	to the secured SA Constrained April 250070
WITNESS my hand and ornical seal Signature	(This area for official notarial seal)

MAIL TAX STATEMENTS TO PARTY SHOWN ON THE FOLLOWING LINE; IF NO PARTY, THEN MAIL AS DIRECTED ABOVE SAME AS ABOVE

t,

Government Code 27361.7

I Certify Under Penalty of Perjury That The Notary Seal On The Document To Which This Statement Is Attached Reads As Follows:

Name of Notary: Worky Feate
Commission No: 1766390
Date Commission Expires: June 19, 2004
County: Los Angeles
By Contico for
Date: 5/3/04

Recording	requested by
Stewart Title	of California, Inc

RECORDING REQUESTED BY: Elevated Escrow Services, Inc. Order No. 538486 Escrow No. 19002052-TZ Parcel No. 314-160-009

AND WHEN RECORDED MAIL TO:

ROGER GIL 33126 CHEYENNE CIRCLE MENIFEE, CA 92584 1026 CK 51

DOC # 2019-0404284

10/08/2019 03:55 PM Fees: \$17.00 Page 1 of 2 Recorded in Official Records County of Riverside Peter Aldana Assessor-County Clerk-Recorder

This document was electronically submitted to the County of Riverside for recording Receipted by: ALYCIA #778

SPACE ABOVE THIS LINE FOR RECORDER'S USE

GRANT DEED

THE UNDERSIGNED GRANTOR(S) DECLARE(S) THAT DOCUMENTARY TRANSFER TAX IS \$361.90 and CITY \$

computed on full value of property conveyed, or

computed on full value less liens or encumbrances remaining at the time of sale.

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Won Kyun Moon, a Married Man as his sole and separate property, who acquired title as a single man

hereby GRANT(S) to Roger Gil, a single man

the following described real property in the County of **Riverside**, State of California: Legal Description is as per attached and made a part hereof, Marked Exhibit "A" More commonly known as: **Nance Street Vacant Land**, **Perris**, **CA**

Date September 24, 2019 Won Kym Moon

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF Washington COUNTY OF Preve

}s.s.

On <u>September</u> 28, 2019, before me, <u>Angelique Leigh Phillips</u>, <u>Angelique Leigh</u> Phillips, <u>Angelique Leigh</u>, personally appeared <u>Won Kvun Moon</u>, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

CELIQUE LEIGH PHILLIPS WITNESS my hand and official seal. NOTARY PUBLIC STATE OF WASHINGTON (Seal) Signatur MIN'SS ON EXPIRES JULY 25, 2020

EXHIBIT "A"

LEGAL DESCRIPTION

Order No.: 538486 Escrow No.: 538486

The land referred to herein is situated in the State of California, County of Riverside, City of Perris and described as follows:

Lot 7, Block E of Golden Valley Farms, in the City of Perris, County of Riverside, State of California, together with those portions of Nance Street and Arizona Street, that would pass with a conveyance of said Lots, as per map recorded in <u>Book 14 of Maps, Page 78</u>, Records of Riverside County.

APN: 314-160-009

(End of Legal Description)

 ACCORDING REQUESTED BY AND WHEN RECORDED MAIL THIS DEED AND UNLESS OTHERWISE MAIL HIS D	DOC # 2004-0285967 04/20/2004 08:00A Fee:7.00 Page 1 of 1 Doc T Tax Paid Recorded in Official Records County of Riverside Gary L. Orso Assessor, County Clerk & Recorder
TRA:008	Grant Deed
THE UNDERSIGNED GRANTOR(s) DECLARE(s) 7906520-6 DOCUMENTARY TRANSFER TAX is NO SHOW	
Dated <u>APR 01, 2004</u> STATE OF CALIFORNIA } COUNTY OF <u>LOS ANCELES</u> } S.S. On <u>April 16, 2004</u> before me, <u>Florence Alexander</u> a Notary Public in and for said County and State, personally appea <u>LIBOR HLAVACEK</u> personally known to me (or proved to me on the basis of satisfactor evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they execut the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the en- upon behalf of which the person(s) acted, executed the instrument. WITNESS-my hand and official seal Signature <u>Marchan</u>	FLORENCE ALEXANDER Commission # 1339212 Notary Public - California Los Angeles County

MAIL TAX STATEMENTS TO PARTY SHOWN ON THE FOLLOWING LINE; IF NO PARTY, THEN MAIL AS DIRECTED ABOVE SAME AS ABOVE

^

Name

RECORDING REQUEST BY: See Below WHEN RECORDED MAIL TO: Cory J. Briggs	DOC # 2007-0725906 12/04/2007 08:00A Fee:10.00 Page 1 of 2 Recorded in Official Records County of Riverside Larry W. Ward Rssessor, County Clerk & Recorder			
Briggs Law Corporation	S R U PAGE SIZE DA MISC LONG RED COPY			
99 East "C" Street, Suite 111				
Upland, CA 91786				
Assessor's Parcel No.: 314-161-050-7	M A L 465 426 FOR NOR SMF NCHG			
QUITCLAIM DEED				
THE UNDERSIGNED GRANTOR(s) DECLARE(s) THAT DOCUMENTARY TRANSFER TAX IS \$0.00 AND [X] this conveyance transfers an interest into or out of a Living Trust, R & T 11930, [] computed on full value of property conveyed, or [] computed on full value less value of liens or encumbrances remaining at time of sale. [] unincorporated area; [] X] City of Perris, and				
FOR A VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, ARMANDO LOVERA, A MARRIED MAN, AS HIS SOLE AND SEPARATE PROPERTY, AS TO AN UNDIVIDED 50.000% INTEREST AND JESUS MENDOZA, A MARRIED MAN, AS HIS SOLE AND SEPARATE PROPERTY, AS TO AN UNDIVIDED 50.000% INTEREST, ALL AS TENANTS IN COMMON.				

hereby REMISE(S), RELEASE(S), and FOREVER QUITCLAIM(S) to

ARMANDO LOVERA AND MARIA E. LOVERA, AS TRUSTEES OF THE ARMANDO AND MARIA E. LOVERA FAMILY TRUST DATED NOVEMBER 1, 2007, AND JESUS MENDOZA AND MARICELA MENDOZA, AS TRUSTEES OF THE JESUS AND MARICELA MENDOZA FAMILY TRUST DATED NOVEMBER 1, 2007, WITH EACH TRUST HOLDING A ONE-HALF UNDIVIDED INTEREST AS TENANTS IN COMMON

all the real property situated in the City of Perris, County of Riverside, State of California, described as: PARCEL 9, BLOCK E, UNIT 1 OF GOLDEN VALLEY FARMS AS SHOWN BY MAP ON FILE IN BOOK 14, PAGE 78 OF MAPS IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY, CALIFORNIA.

Date: November 1, 2007

-

Armando Lovera

Δ Jesus Mendoza

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT [Civil Code Section 1189]

State of California County of <u>San Bernardino</u>

On November 1, 2007, before me, Keri M. THUNE, Notary Public, personally appeared ARMANDO LOVERA AND JESUS MENDOZA

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s)-ia/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in hia/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

KERI M. TAYLOR COMM. #1568091

Notary Public - California San Bernardino County Comm. Expires Apr. 10, 2009

NRO

WITNESS my hand and official seal.

(Seal) Signature

* * Optional Information * *

Instrument Description:	
Instrument Date:	
Number of Pages:	
Fingerprints of Signer(s):	

Deed Exhibit 15

DOC # 2021-0349835

06/09/2021 12:51 PM Fees: \$30.00 Page 1 of 3 Recorded in Official Records County of Riverside Peter Aldana Assessor-County Clerk-Recorder

This document was electronically submitted to the County of Riverside for recording Receipted by: DEYANIRA #293

> TRA NO205

SPACE ABOVE THIS LINE FOR RECORDER'S USE

GRANT DEED

THE UNDERSIGNED GRANTOR(S) DECLARE(S) THAT DOCUMENTARY TRANSFER TAX IS

computed on full value less liens or encumbrances remaining at the time of sale, unincorporated area:

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Jie Zhang, a single man

hereby GRANT(S) to Lucia Deng, a single woman

computed on full value of property conveyed, or

Konside

the following described real property in the County of Los Angeles, State of California: See Exhibit "A" attached hereto and made a part thereof.

before me,

More commonly known as: APN# 314-160-012, Perris, CA

May 14, 2021 Date

Jie Zhang

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA COUNTY OF }S.S.

On____

personally appeared ______, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERIURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)

Mail Tax Statement to: S VME AS ABOVE or Address Noted Below

Vacant land

RECORDED AT THE REQUEST OF CHICAGO TITLE COMPANY

RECORDING REQUESTED BY:

AND WHEN RECORDED MAIL TO:

Order No. 112109960-JT

Escrow No. 24313CT

LUCIA DENG

Parcel No. 314-160-012

23622 RIDGE LINE RD DIAMOND BAR, CA 91765

ACKNOWL	EDGMENT
A notary public or other officer completing this certificate verifies only the identity of the indiv who signed the document to which this certific attached, and not the truthfulness, accuracy, validity of that document.	ridual cate is
State of Galifornia County of Dallas)	
On May 20, 2021 before me,	Ashanti N. Clark, Notary Public
	(insert name and title of the officer)
personally appeared <u>Jie Zhang</u> who proved to me on the basis of satisfactory e subscribed to the within instrument and acknow his/her/their authorized capacity(hes), and that b person(s), or the entity upon behalf of which the	(insert name and title of the officer) widence to be the person(5) whose name(6) is/aff redged to me that he/shefting executed the same is by his/hefting signature(5) on the instrument the e person(6) acted, executed the instrument.
personally appeared <u>Jie Zhang</u> who proved to me on the basis of satisfactory e subscribed to the within instrument and acknow his/her/their authorized capacity(hes), and that b person(s), or the entity upon behalf of which the	(insert name and title of the officer) widence to be the person (5) whose name (5) is/afe version of the the person (5) whose name (5) is/afe version (5) is/afe the person (5) on the instrument the person (5) acted, executed the instrument.
personally appeared Jie Zhang who proved to me on the basis of satisfactory e subscribed to the within instrument and acknow his/hel/their authorized capacity(hes), and that b person(s), or the entity upon behalf of which the I certify under PENALTY OF PERJURY under t	(insert name and title of the officer) widence to be the person(5) whose name(6) is/aff redged to me that he/shefting executed the same is by his/hefting signature(5) on the instrument the e person(6) acted, executed the instrument.

÷

EXHIBIT "A"

Legal Description

For APN/Parcel ID(s): 314-160-012

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

LOT 10, BLOCK E OF GOLDEN VALLEY FARMS, IN THE CTTY OF PERRIS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, TOGETHER WITH THOSE PORTIONS OF NANCE STREET AND NEVADA AVENUE THAT WOULD PASS WITH A CONVEYANCE OF SAID LOTS, AS PER MAP RECORDED IN <u>BOOK 14 OF MAPS, PAGE 78</u>, RECORDS OF RIVERSIDE COUNTY.

APPENDIX D

AERIAL PHOTOGRAPHS

Duke - Patterson Expansion

Not Reported Perris, CA 92571

Inquiry Number: 6641725.11 August 30, 2021

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

EDR Aerial Photo Decade Package

Site Name:

Client Name:

08/30/21

Duke - Patterson Expansion Not Reported Perris, CA 92571 EDR Inquiry # 6641725.11 APEX Environmental 15850 Crabbs Branch Way Rockville, MD 20855 Contact: Tania Cowden



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search	Results:		
<u>Year</u>	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
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1978	1"=500'	Flight Date: September 20, 1978	USDA
1967	1"=500'	Flight Date: May 15, 1967	USDA
1961	1"=500'	Flight Date: June 14, 1961	USDA
1953	1"=500'	Flight Date: August 28, 1953	USDA
1949	1"=500'	Flight Date: May 06, 1949	USDA
1938	1"=500'	Flight Date: June 14, 1938	USDA

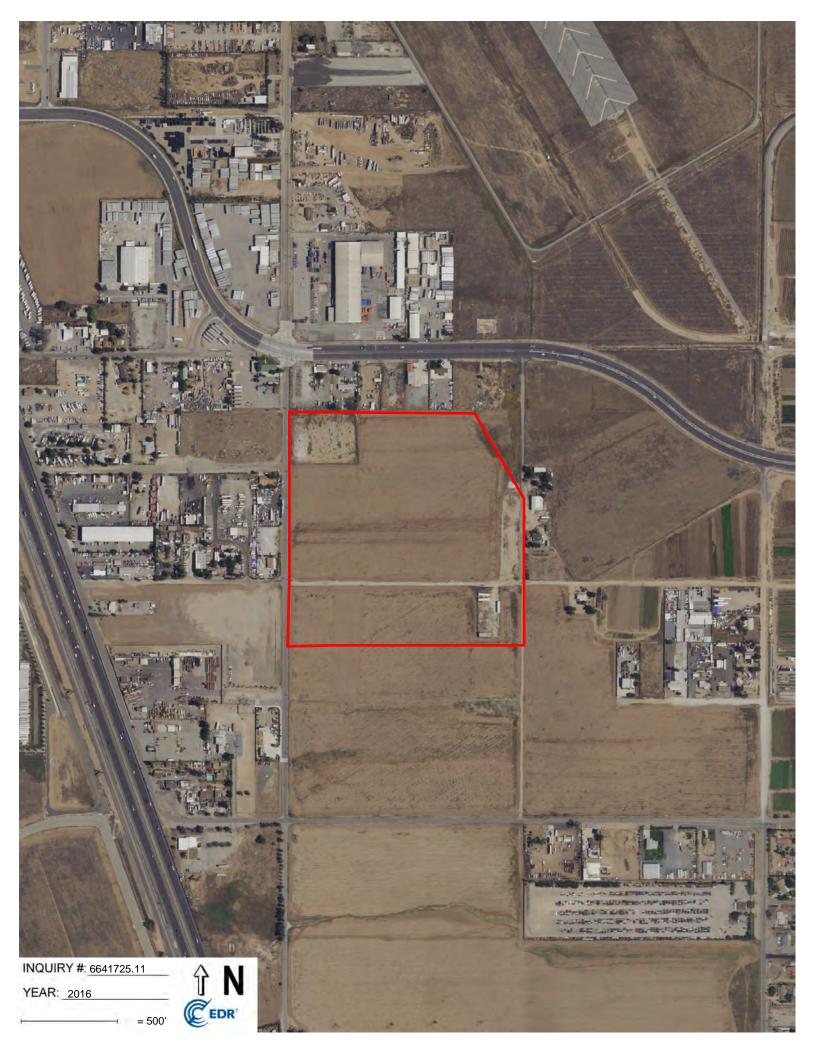
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

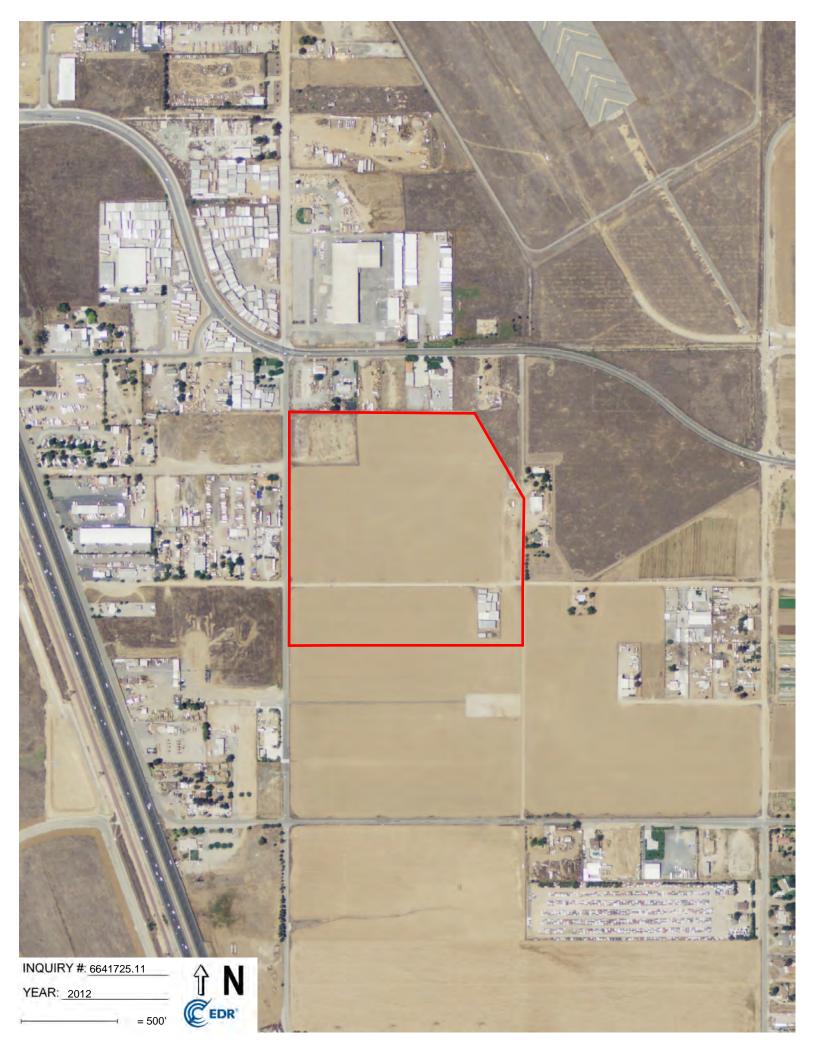
Disclaimer - Copyright and Trademark Notice

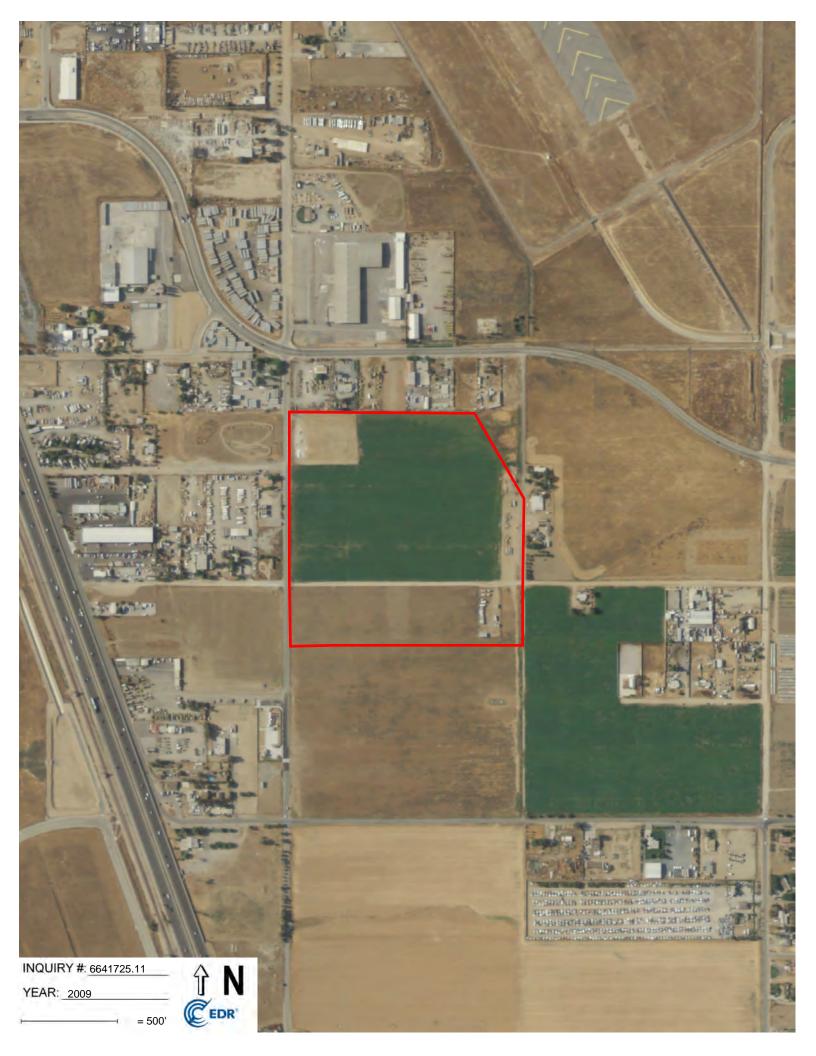
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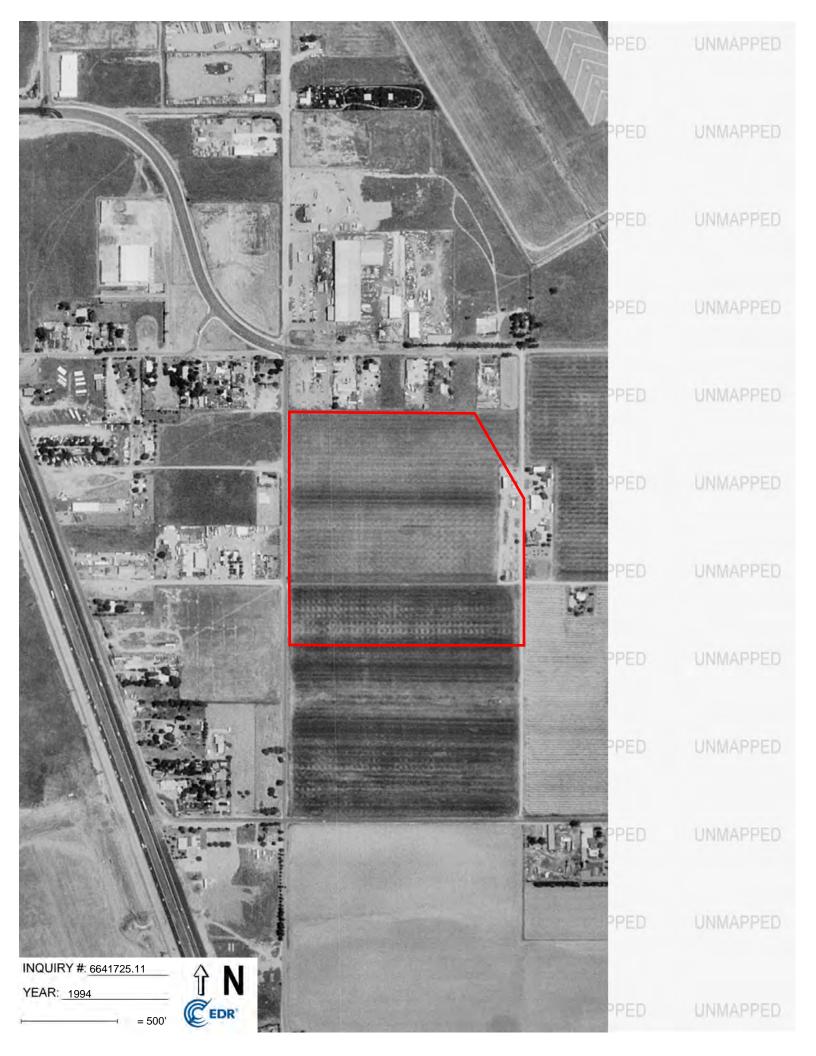




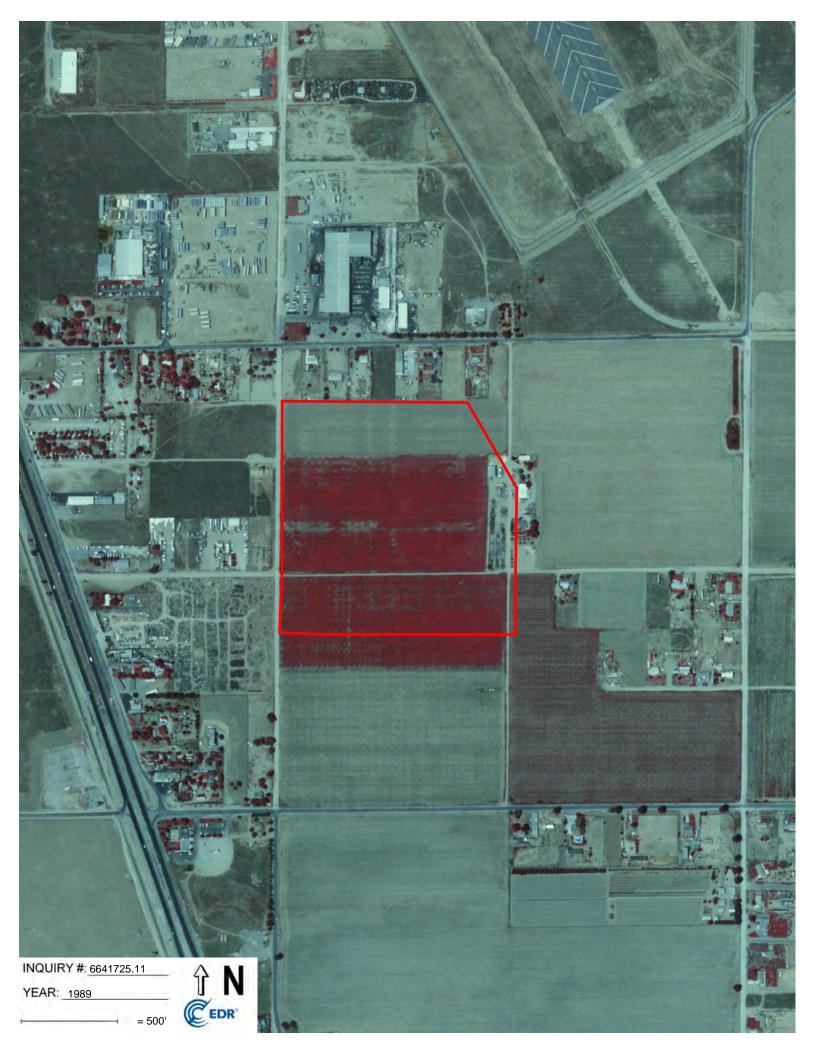




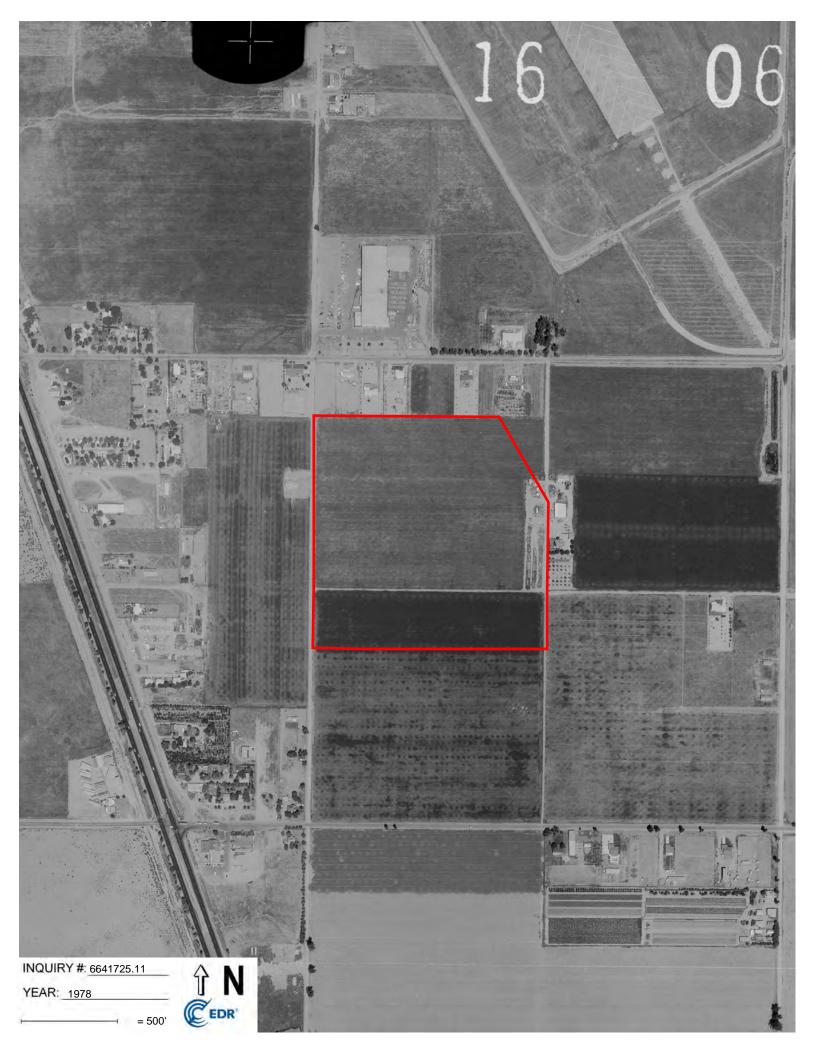


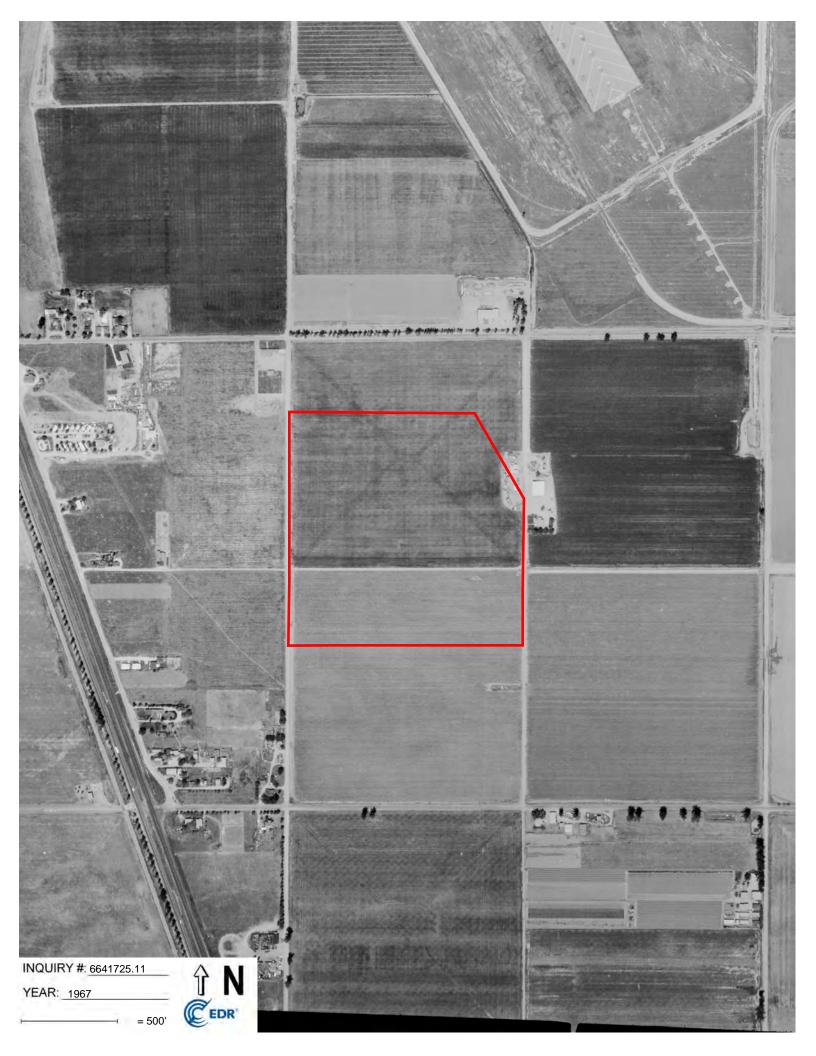




















APPENDIX E

TOPOGRAPHIC MAPS

Duke - Patterson Expansion Not Reported Perris, CA 92571

Inquiry Number: 6641725.4 August 30, 2021

EDR Historical Topo Map Report with QuadMatch™



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

EDR Historical Topo Map Report		08/30/21
Site Name	Client Name:	

lite Name:

Client Name:

Duke - Patterson Expansion Not Reported Perris, CA 92571 EDR Inquiry # 6641725.4

APEX Environmental 15850 Crabbs Branch Way Rockville, MD 20855 Contact: Tania Cowden



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by APEX Environmental 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 Result	ts:	Coordinates:	
P.O.#	NA	Latitude:	33.855004 33° 51' 18" North
Project:	NA	Longitude:	-117.251033 -117° 15' 4" West
-		UTM Zone:	Zone 11 North
		UTM X Meters:	476778.30
		UTM Y Meters:	3746107.64
		Elevation:	1495.00' above sea level
Maps Provide	d:		
2012	1942		
1979, 1980	1901		
1978			
1973			
1967			
1953			
1947			
1943			

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Riverside East 2012 7.5-minute, 24000



2012 7.5-minute, 24000

Sunnymead

7.5-minute, 24000

Aerial Photo Revised 1978

1980



Steele Peak 2012 7.5-minute, 24000

Riverside East

7.5-minute, 24000

Aerial Photo Revised 1978

1980



Sunnymead 2012 7.5-minute, 24000

1979, 1980 Source Sheets



Perris 1979 7.5-minute, 24000 Aerial Photo Revised 1978

1978 Source Sheets



Steele Peak 1978 7.5-minute, 24000 Aerial Photo Revised 1978

1973 Source Sheets



Sunnymead 1973 7.5-minute, 24000 Aerial Photo Revised 1973



1973 7.5-minute, 24000 Aerial Photo Revised 1973



Perris 1973 7.5-minute, 24000 Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1967 Source Sheets



Riverside East 1967 7.5-minute, 24000 Aerial Photo Revised 1966

1953 Source Sheets



Perris 1953 7.5-minute, 24000 Aerial Photo Revised 1951

1947 Source Sheets



RIVERSIDE 1947 15-minute, 50000

1943 Source Sheets



PERRIS 1943 15-minute, 62500



Steele Peak 1967 7.5-minute, 24000 Aerial Photo Revised 1966



Sunnymead 1967 7.5-minute, 24000 Aerial Photo Revised 1966



Perris 1967 7.5-minute, 24000 Aerial Photo Revised 1966



Sunnymead 1953 7.5-minute, 24000 Aerial Photo Revised 1951



Steele Peak 1953 7.5-minute, 24000 Aerial Photo Revised 1951



Riverside East 1953 7.5-minute, 24000 Aerial Photo Revised 1951

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942 Source Sheets





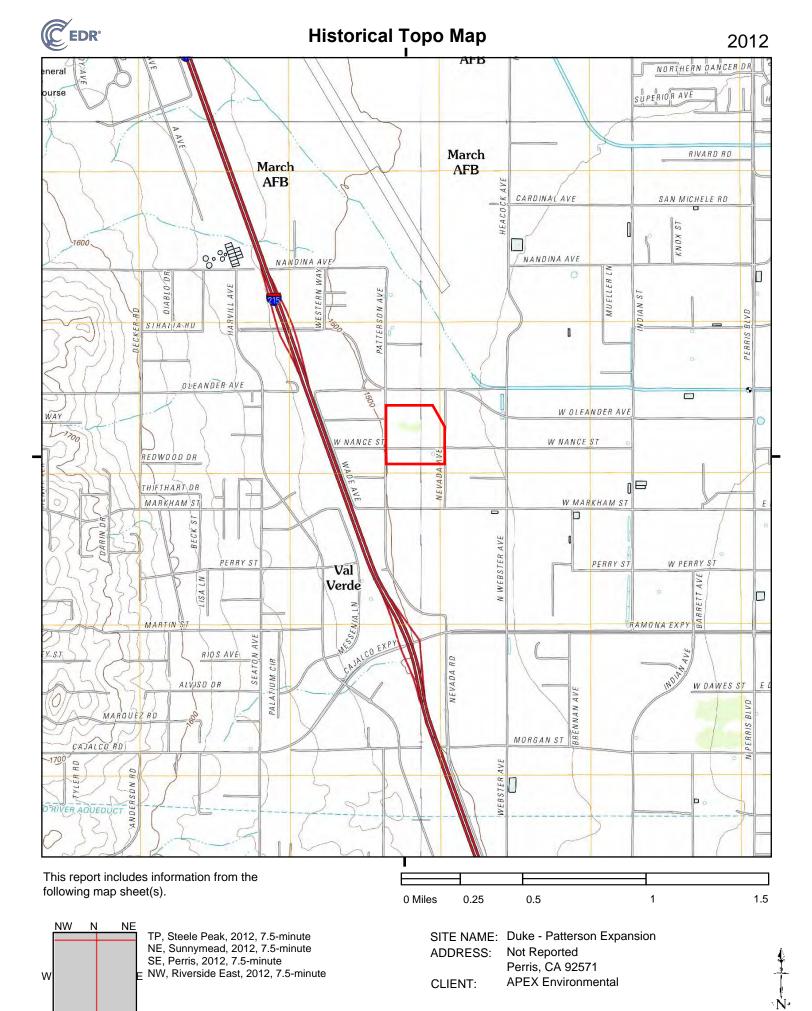
Perris 1942 15-minute, 62500 Aerial Photo Revised 1939

Riverside 1942 15-minute, 62500 Aerial Photo Revised 1939

1901 Source Sheets



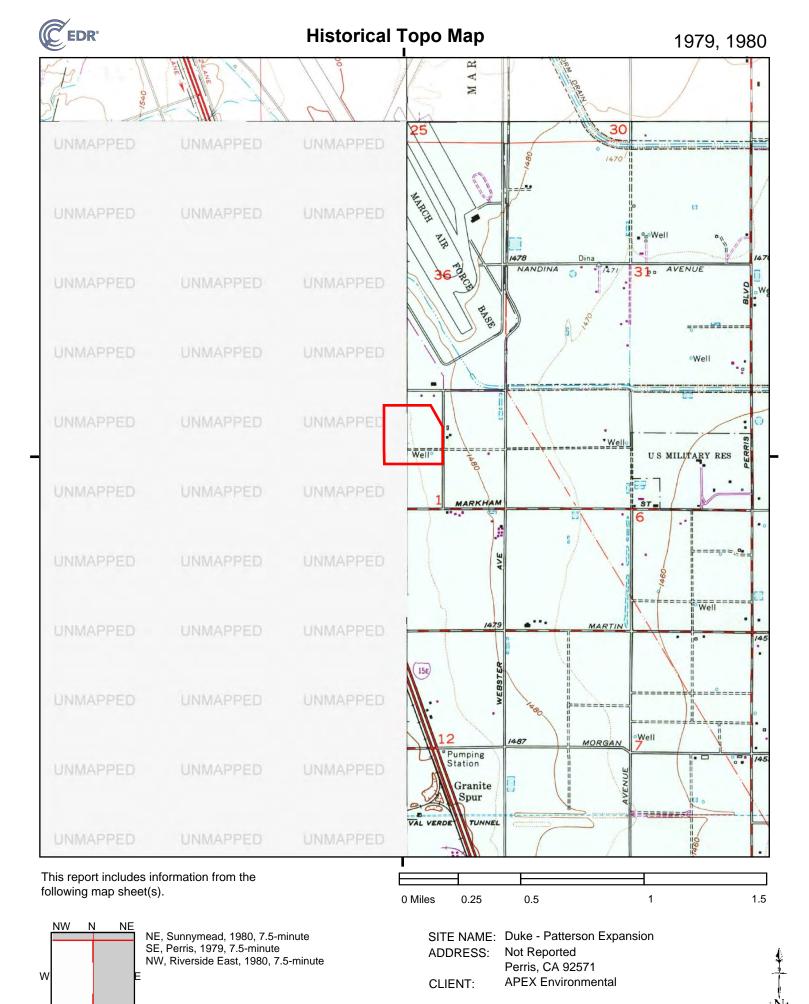
Riverside 1901 15-minute, 62500



SW

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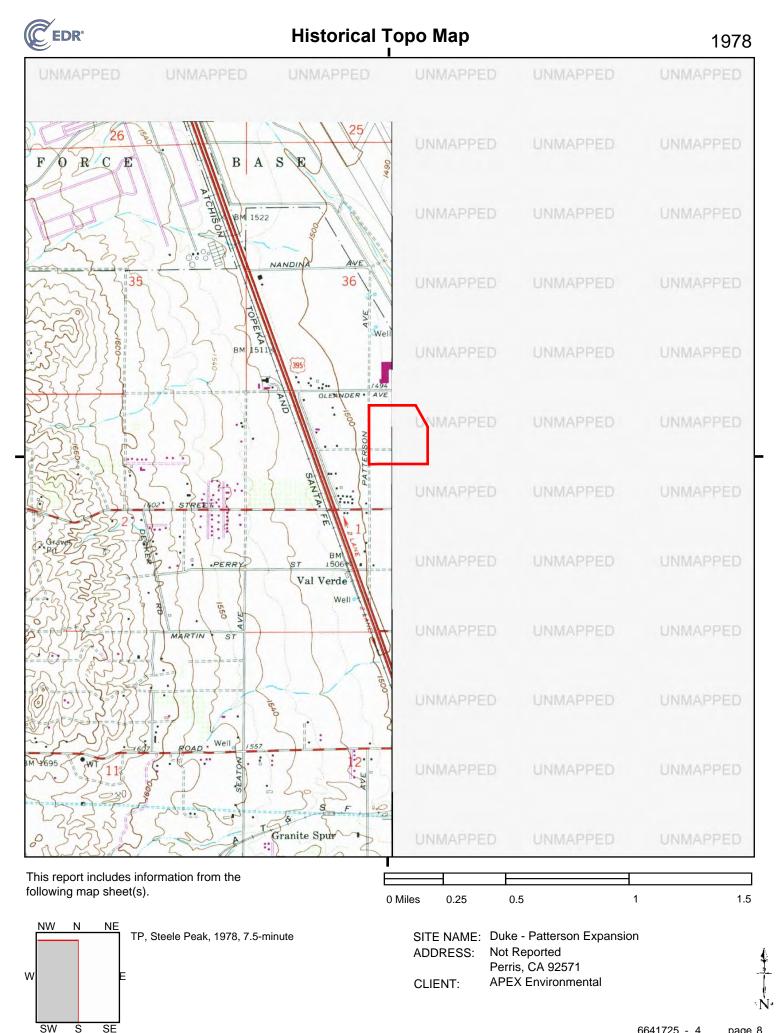
SE



SW

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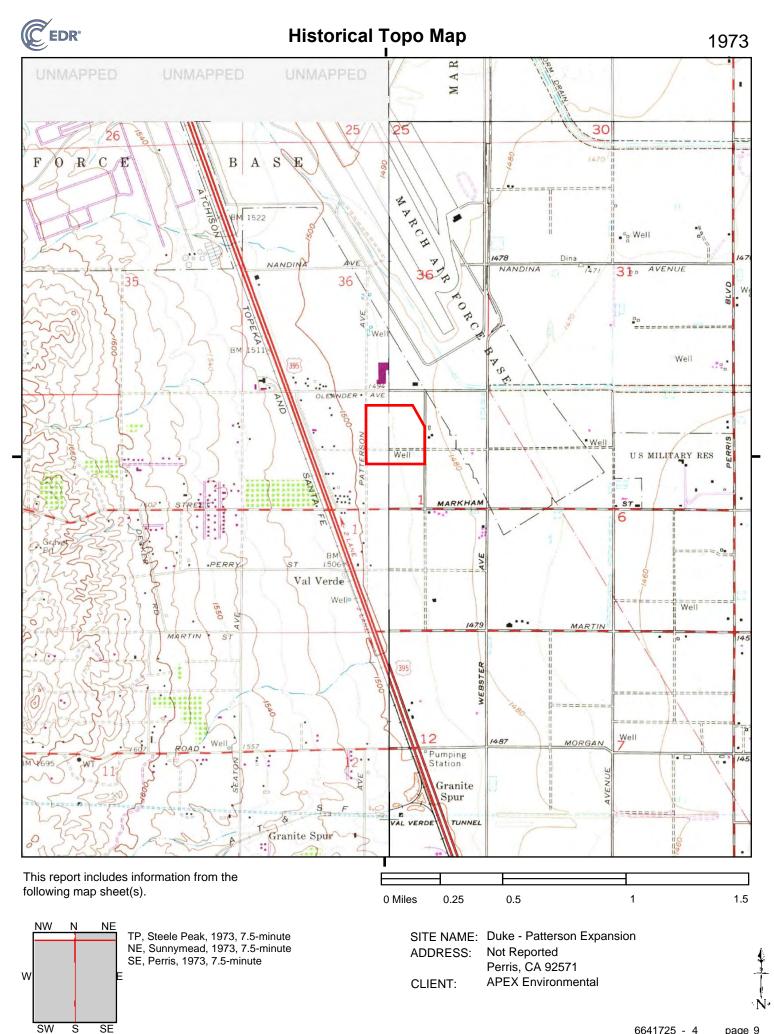
SE

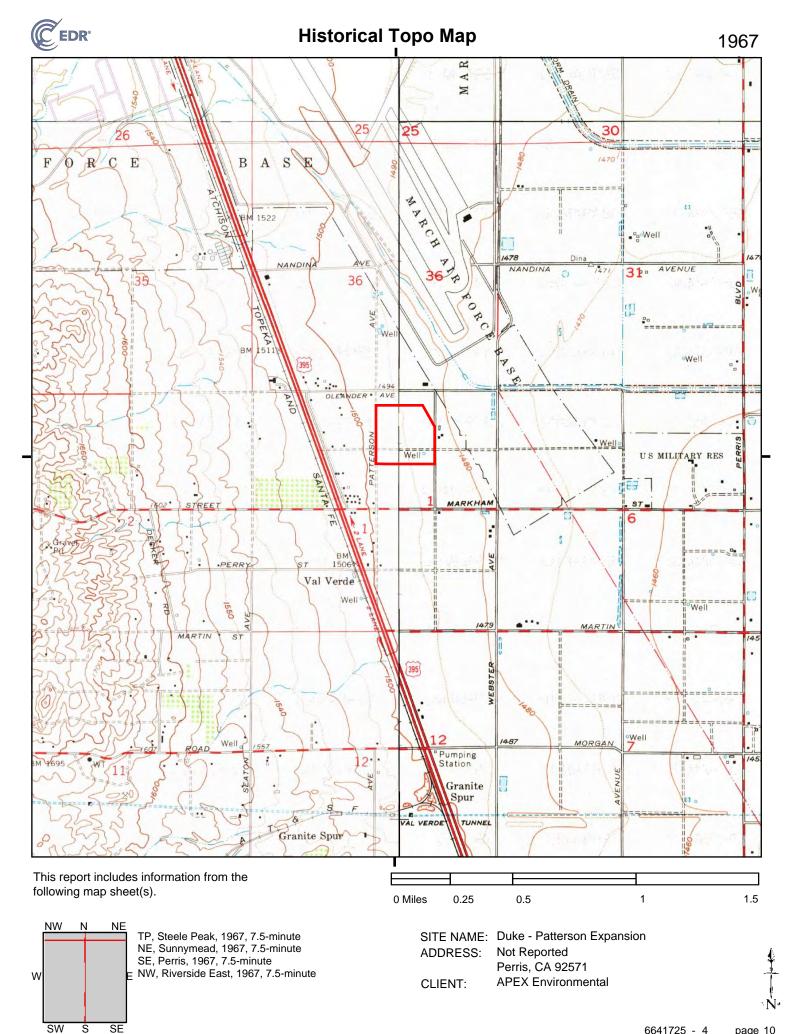


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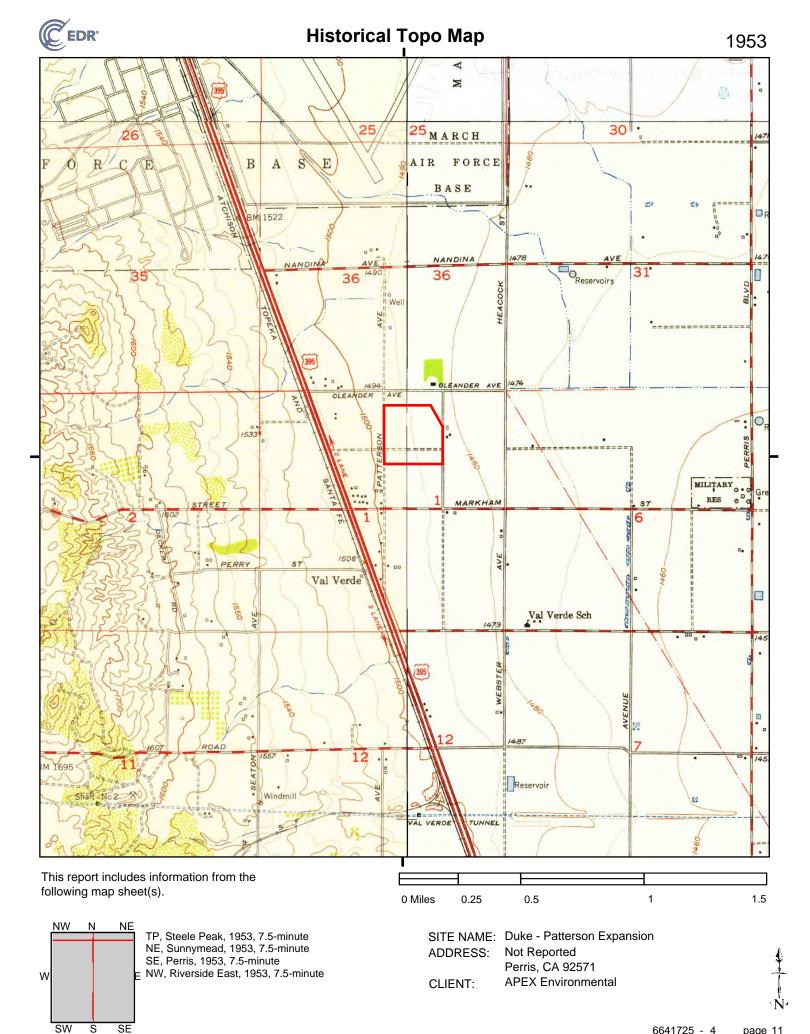
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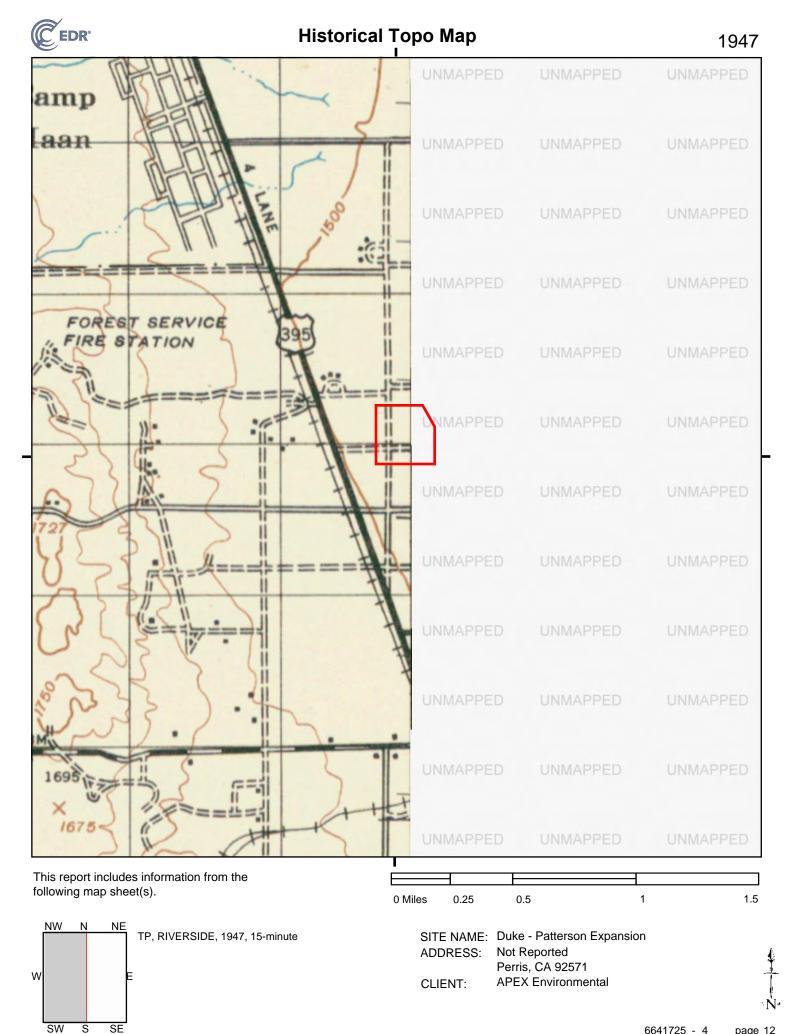
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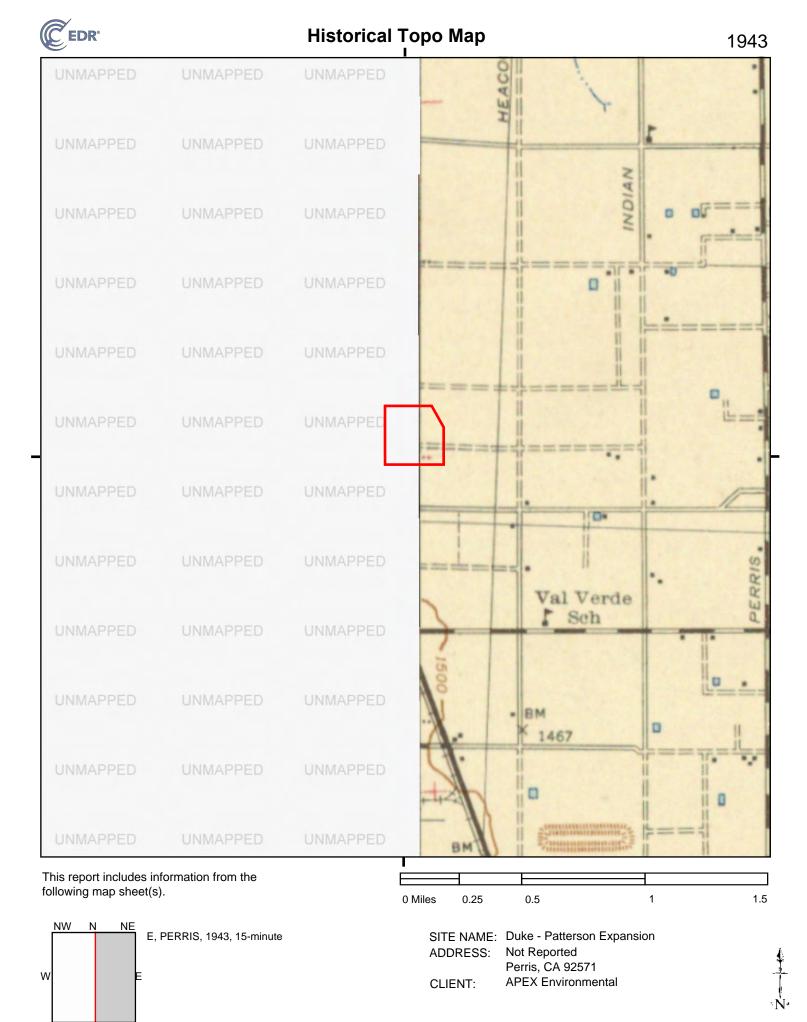
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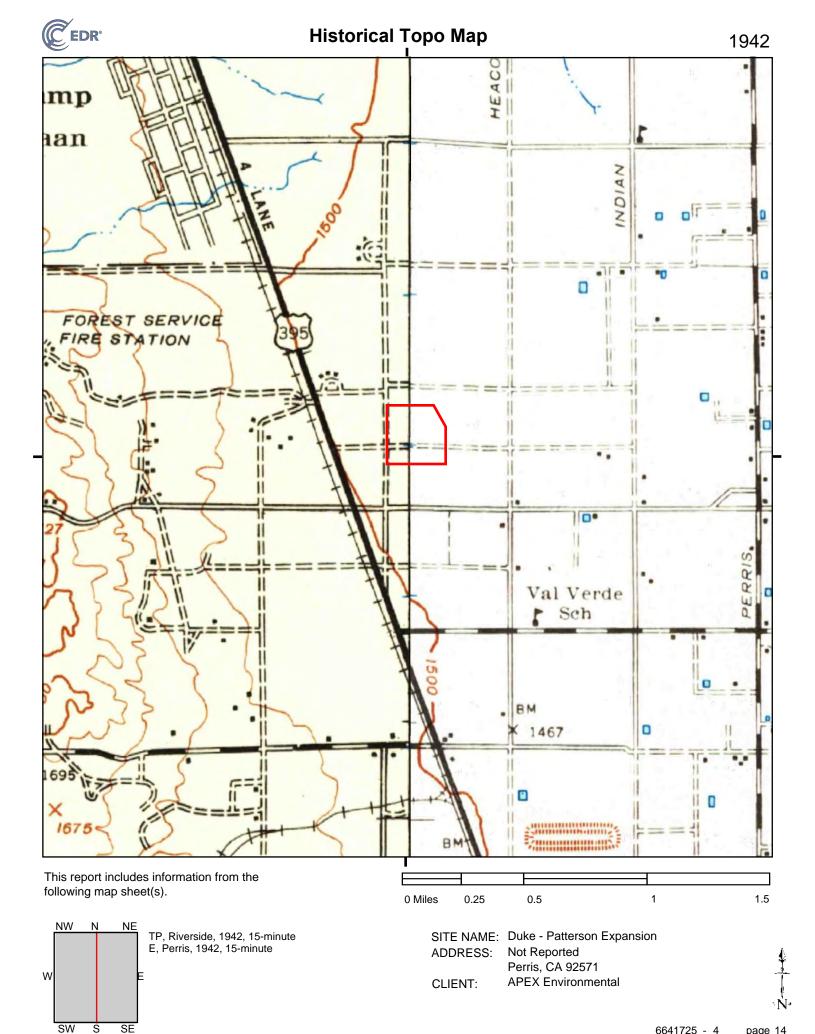


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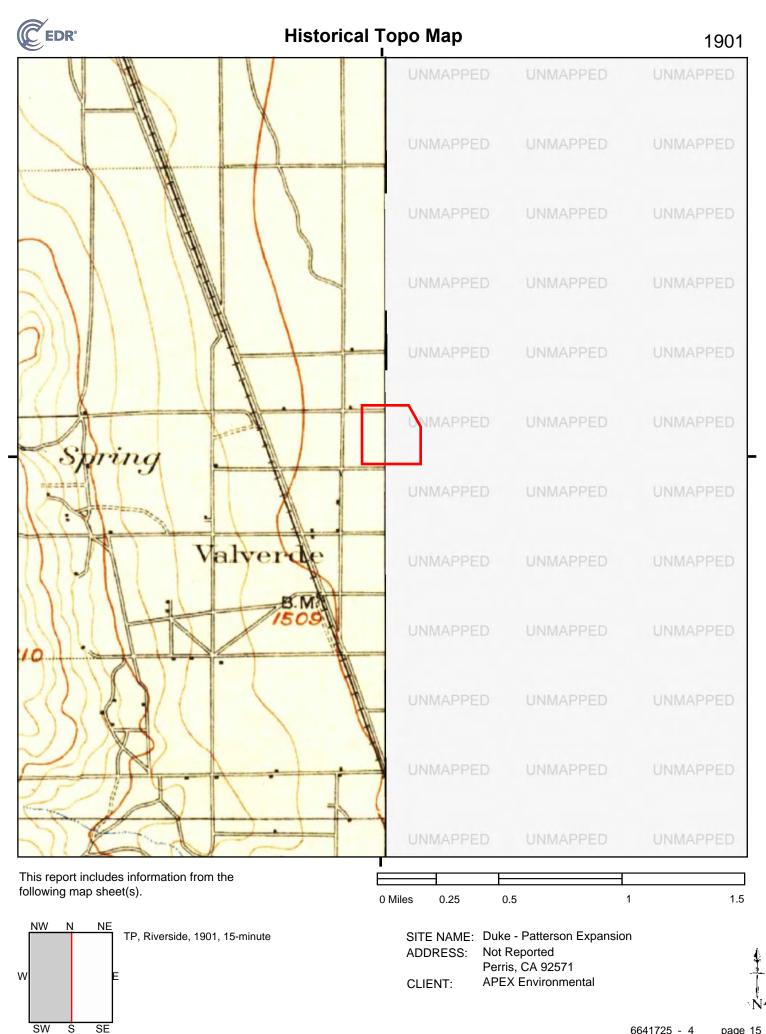
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6641725 - 4 page 15 APPENDIX F

CITY DIRECTORIES REPORT

Duke - Patterson Expansion Not Reported Perris, CA 92571

Inquiry Number: 6641725.5 August 31, 2021

The EDR-City Directory Image Report



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

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Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Brad street. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.



RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	Cross Street	<u>Source</u>
2017		\checkmark	EDR Digital Archive
2014		\checkmark	EDR Digital Archive
2010		\checkmark	EDR Digital Archive
2005		\checkmark	EDR Digital Archive
2000		\checkmark	EDR Digital Archive
1995		\checkmark	EDR Digital Archive
1992		\checkmark	EDR Digital Archive
1985			Haines Criss-Cross Directory
1980			Haines Criss-Cross Directory
1976			Haines Criss-Cross Directory
1971			Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

Not Reported Perris, CA 92571

No Addresses Found

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
<u>W NANCE ST</u>			
2017	pg.A1	EDR Digital Archive	
2014	pg. A2	EDR Digital Archive	
2010	pg.A3	EDR Digital Archive	
2005	pg.A4	EDR Digital Archive	
2000	pg. A5	EDR Digital Archive	
1995	pg.A6	EDR Digital Archive	
1992	pg. A7	EDR Digital Archive	
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1976	-	Haines Criss-Cross Directory	Street not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source

City Directory Images

W NANCE ST 2017

494 RAMSEY, MANUEL

- 753 LI, MIAGBO
- 845 SHILYAN, MEHRAN
- 1210 AQUA PLUMBING
- 1220 PERRIS LAKE RVBOATTRAILER STORAGE
- UHAUL
- 1260 MACOMBER, MICHAEL
- 1278 FREDLOV INC

W NANCE ST 2014

- 494 RAMSEY, MANUEL
- 753 LI, MIAGBO
- 953 OCCUPANT UNKNOWN,

- 1210 AQUA PLUMBING
- 1220 PERRIS LAKE RVBOATTRAILER STORAGE
- 1260 MACOMBER, MICHAEL
- 1278 FREDLOV INC
- 1308 HANSEN, F

W NANCE ST 2010

494 BARRAZA, RENALTO

- 845 RUTH, DAN T
- 953 TERAO, NIE
- 1220 PERRIS LAKE RVBOATTRAILER
- 1260 MACOMBER, MICHAEL S
- 1278 FREDLOV INC
- 1308 HANSEN, STEVEN L

W NANCE ST 2005

474 OCCUPANT UNKNOWN,

- 494 RUIZ, APOLINAR
- 845 RUTH, DAN T
- 953 TERAO, KAZUTO S
- 1210 TREJO, RUBEN R
- 1220 PERRIS LAKE RV BOAT TRAILER STORAGE
- 1260 MACOMBER, MICHAEL S
- 1278 FREDLOV INC
- 1308 REED, JAMES
 - TOMS INSULATION



Source EDR Digital Archive

W NANCE ST 2000

494 DOMINGUEZ, ALFREDO

- 670 OCCUPANT UNKNOWN,
- 845 RUTH, DAN
- 953 HASHIZAKI, HARU J
- 1220 PERRIS LAKE RV BOAT TRAILER STORAGE CENTER
- 1260 MACOMBER, MICHAEL
- 1278 FREDLOV INCORPORATED
- 1307 OCCUPANT UNKNOWN,
- 1308 REED, JAMES
 - TOMS INSULATION

W NANCE ST 1995

- 494 CARLS BACKHOE
- 550 WU, JOHN S
- 845 TRAVIS, OLLIE E
- 953 TERAO, KAZUTO
- 1210 OCCUPANT UNKNOWNN

- 1220 MACOMBER, MARION
- PERRIS LAKE RV BOAT TRAILER
- 1260 KELLUM, MAURICE
- LEONA MACOMBER
- MACOMBER, WALTER
- 1308 TOMS INSULATION

W NANCE ST 1992

494 CARLS BACKHOE SERV

- 550 WU, JOHN S
- 953 TERAO, KAZUTO
- 1210 ROJAS, F
- 1220 PERRIS LK RV BOAT
- 1260 KELLUM, MAURICE
- MACOMBER, WALTER
- 1278 WEST CST IRRIGTN
- 1308 TOMS INSULATION

APPENDIX G

BUILDING PERMITS REPORT

Duke - Patterson Expansion Not Reported Perris, CA 92571

Inquiry Number: 6641725.8 August 30, 2021

EDR Building Permit Report

Target Property and Adjoining Properties



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

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> *Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.





EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Asearch of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of APEX Environmental on Aug 30, 2021.

TARGET PROPERTY

Not Reported Perris, CA 92571

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: NO PERMITS IDENTIFIED

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.

Name: JurisdictionName Years: Years Source: Source Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name:Riverside CountyYears:1963-2021Source:Riverside County, Building and Safety, RIVERSIDE, CAPhone:(951)955-6742

Name:PerrisYears:1964-2021Source:City of Perris, Development Services, PERRIS, CAPhone:(951)443-1029

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

Not Reported Perris, CA 92571

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Permits Found

GLOSSARY

General Building Department concepts

- ICC: The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections): This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- Jurisdiction: This is the geographic area representing the properties over which a Permitting Authority has
 responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- Sub: Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- Journeymen: Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release): Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- "Pull" a permit: To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- Planning Department: The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- Zoning District: A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- PIN (TMS, GIS ID, Parcel#): Property Identification Number and Tax Map System number.
- State Card (Business license): A license card issued to a contractor to conduct business.
- Building Inspector (Inspector): The inspector is a building department employee that inspects building construction for compliance to codes.
- C.O.: Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use (s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000 Permit Type: Bldg -New Permit Number: 10100000405 Status: Valuation: \$1,000,000.00 Contractor Company: OWNER-BUILDER Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

APPENDIX H

PROPERTY TAX MAP

Duke - Patterson Expansion Not Reported Perris, CA 92571

Inquiry Number: 6641725.6 August 30, 2021

The EDR Property Tax Map Report



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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PATTERSON	20 20 38 50 110	132 19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34	13 33	132 12 32	11 31 53.20 53.20		19	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	16 60	1 + + + + + + + + + + + + + + + + + + +	14	(64) 13	132 12 82 2.57 AC ML			3/1/1596 152 20 22 26 15 3/1/1596 153 43 54 74 9 15 3/1/1596 152 4-7 15 3/1/1596 152 4-7 15 3/1/1596 152 4-7 15 3/1/1596 152 4-7 15 3/1/1596 152 4-3 16 3/1/1596 152 1-3 16 3/1/1596 152 1-3 15 3/1/1596 151 4-15 15 3/1/1596 151 4-15 15 3/1/1596 151 41 420 15 3/1/1596 151 41 15	344.45 372 3-37 3-37 3-37 3-37 3-41 3-42 43 3-42 43 3-72 3-3 3-72 3-3 3-75 21 3-46.47 3-30.51
E	8			NANCE								132	<u> </u>			ST.		132	132	117.10 8	\vdash	3/1/1896 152-28 15	3-50.51 3-64.65 - 3-68.69 -
ASSESSOR'S		14 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 2 Fg 2 Pg 2		Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					Tap Rafere GOLDEN V/	nce *	s	Apr 2017		2011/896 133315.35.57 15 3011/896 153.67.60,71 15 11/1/2001 6 78 11/1/2001 6 78 11/1/2001 5 76 11/1/2001 5 76 11/1/2001 6 76 11/1/2001 6 76 11/1/2001 6 76 11/1/2001 10 77 8/1/2005 153.3 78 3/8/2010 153.7 80 3/26/012 153.7 80	3-72 – 3-72 ವ .ನ .ನ .ನ .ನ .ನ .ನ .ನ .ನ .ನ

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCI	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1,	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma	sik	√	>>− E	T.R.A. 008-		31 16-2	4 -15
	VE 2		0	LEAND	ER											AVE.				K GVR	t	<u> </u>	
20	1 01 067/82	132 2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 8	8 (76)	9 EX					4 EX (11) 8 9 5	5 ex (12)	6 EX (13) ^{Arge}	7 (14) 886	8	132 			12/1/1961 151.35 12/1/1961 152.35 12/1/1961 152.35 12/1/1961 152.33 12/1/1961 152.33 12/1/1961 151.38 12/1/1961 151.39 12/1/1961 152.31	New Number * 46.5T 41.5T 44.5T 39.5T 49.5T 49.5T 37.5T
AVE	20 (21) (9:28)	19 20	18 (19)	132 17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132 12 (44)			1 + - ¹³² - 1 1 1 1 1 1 1 1 1	+ , , , , , , , , , , , ,	17 EX 72	16	3 15 1	14	13	 + - ¹³² - 1 12 	+ - ^{13<u>1</u>.18} - 1 11 1 11 1 5 5 1		12/0/1981 151-35 12/0/1981 151-37 12/0/1981 152-34 12/0/1981 152-35 12/0/1981 152-35 12/0/1981 155-32 12/0/1981 155-32 19/0/1981 155-42 20/0/1981 155-42 20/0/1981 155-42 30/0/1981 155-42 30/0/1	88.5T 45.5T 40.5T 40.5T 42.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 43.44 153-1.2
NOS	1 (22) 09 J82 10	2 (23) 132	24	4 25	A 26	6 27	7 (28)	8 29	9 30			<u>+</u> <u>+</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	T		(153). 5	5 5	7	8	9 66			JUT 1996 152.41 JUT 1996 152.40 JUT 1996 152.41 JUT 1996 152.43 JUT 1996 154.4 JUT 1996 154.4 JUT 1996 152.43 JUT 1996 152.43 JUT 1996 152.29 SUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.44 JUT 1996 154.42	153-52 53 153-54 55 153-66 57 153-66 57 153-68 67 153-72 153-72 153-72 153-72 153-72 153-85 153-46 49 153-46 49 153-46 45 153-72
PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-41 153-42 153-42 153-42 153-72 153-72 153-72 153-72 153-72 153-65 153-46,47
				NANCE												<u>-ST.</u>				30			153-64-65 153-68.69 -
ASSESSORS		4 PG.15]Hernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 81/2(05 153-3 0-3/2010 153-75 3/2/2010 153-75	153-72 153-72 73.51 78.51 76.51 75.51 75.51 77.51 79.51 80.51 81.51 82.51

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCI	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1,	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma	sik	√	>> −E	T.R.A. 008-		31 16-2	4 -15
	VE 2		0	LEAND	ER											AVE.				K GVR	t	<u> </u>	
20	1 01 067/82	132 2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 8	8 (76)	9 EX					4 EX (11) 8 9 5	5 ex (12)	6 EX (13) ^{Arge}	7 (14) 88	8	132 			12/1/1961 151.35 12/1/1961 152.35 12/1/1961 152.35 12/1/1961 151.34 12/1/1961 152.33 12/1/1961 151.38 12/1/1961 151.39 12/1/1961 151.31	New Number * 46.5T 41.5T 44.5T 39.5T 49.5T 49.5T 37.5T
AVE	20 (21) (9:28)	19 20	18 (19)	132 17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132 12 (44)			1 + - ¹³² - 1 1 1 1 1 1 1 1 1	+ , , , , , , , , , , , ,	17 EX 72	16	3 15 1	14	13	 + - ¹³² - 1 12 	+ - ^{13<u>1</u>.18} - 1 11 1 11 1 5 5 1		12/0/1981 151-35 12/0/1981 151-37 12/0/1981 152-34 12/0/1981 152-35 12/0/1981 152-35 12/0/1981 155-32 12/0/1981 155-32 19/0/1981 155-42 20/0/1981 155-42 20/0/1981 155-42 20/0/1985 152-32	88.5T 45.5T 40.5T 40.5T 42.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 43.44 153-1.2
NOS	1 (22) 09 J82 10	2 (23) 132	24	4 25	A 26	6 27	7 (28)	8 29	9 30			<u>+</u> <u>+</u> <u> </u> <u>+</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	T		(153). 5	5 5	7	8	9 66			JUT 1996 152.41 JUT 1996 152.40 JUT 1996 152.38 JUT 1996 152.43 JUT 1996 154.4 JUT 1996 152.43 JUT 1996 152.43 JUT 1996 152.29 SUT 1996 152.29 SUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.44 JUT 1996 154.42 JUT 1996 154.42	153-52 53 153-54 55 153-66 57 153-66 57 153-68 67 153-72 153-72 153-72 153-72 153-72 153-85 153-46 49 153-46 49 153-46 45 153-72
PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-41 153-42 153-42 153-42 153-72 153-72 153-72 153-72 153-72 153-65 153-46,47
				NANCE												<u>-ST.</u>				30			153-64-65 153-68.69
ASSESSORS		4 PG.15]Hernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 81/2(05 153-3 0-3/2010 153-75 3/2/2010 153-75	153-72 153-72 73.51 78.51 76.51 75.51 75.51 77.51 79.51 80.51 81.51 82.51

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCI	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1,	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma	sik	√	>>− E	T.R.A. 008-		31 16-2	4 -15
	VE 2		0	LEAND	ER											AVE.				K GVR	t	<u> </u>	
20	1 01 067/82	132 2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 8	8 (76)	9 EX					4 EX (11) 8 9 5	5 ex (12)	6 EX (13) ^{Arge}	7 (14) 88	8	132 			12/1/1961 151.35 12/1/1961 152.35 12/1/1961 152.35 12/1/1961 151.34 12/1/1961 152.33 12/1/1961 151.38 12/1/1961 151.39 12/1/1961 151.31	New Number * 46.5T 41.5T 44.5T 39.5T 49.5T 49.5T 37.5T
AVE	20 (21) (9:28)	19 20	18 (19)	132 17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132 12 (44)			1 + - ¹³² - 1 1 1 1 1 1 1 1 1	+ , , , , , , , , , , , ,	17 EX 72	16	3 15 1	14	13	 + - ¹³² - 1 12 	+ - ^{13<u>1</u>.18} - 1 11 1 11 1 5 5 1		12/0/1981 151-35 12/0/1981 151-37 12/0/1981 152-34 12/0/1981 152-35 12/0/1981 152-35 12/0/1981 155-32 12/0/1981 155-32 19/0/1981 155-42 20/0/1981 155-42 20/0/1981 155-42 20/0/1985 152-32	88.5T 45.5T 40.5T 40.5T 42.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 43.44 153-1.2
NOS	1 (22) 09 J82 10	2 (23) 132	24	4 25	A 26	6 27	7 (28)	8 29	9 30			<u>+</u> <u>+</u> <u> </u> <u>+</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	T		(153). 5	5 5	7	8	9 66			JUT 1996 152.41 JUT 1996 152.40 JUT 1996 152.38 JUT 1996 152.43 JUT 1996 154.4 JUT 1996 152.43 JUT 1996 152.43 JUT 1996 152.29 SUT 1996 152.29 SUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.44 JUT 1996 154.42 JUT 1996 154.42	153-52 53 153-54 55 153-66 57 153-66 57 153-68 67 153-72 153-72 153-72 153-72 153-72 153-85 153-46 49 153-46 49 153-46 45 153-72
PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-41 153-41 153-42 153-72 153-72 153-72 153-72 153-3 153-15-21 153-46-47 153-36-1
				NANCE												<u>-ST.</u>				30			153-64-65 153-68.69
ASSESSORS		4 PG.15])fernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 81/2(05 153-3 0-3/2010 153-75 3/2/2010 153-75	153-72 153-72 73.51 78.51 76.51 75.51 75.51 77.51 79.51 80.51 81.51 82.51

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCI	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1,	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma	sik	√	>> −E	T.R.A. 008-		31 16-2	4 -15
	VE 2		0	LEAND	ER											AVE.				K GVR	t	<u> </u>	
20	1 01 067/82	132 2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 8	8 (76)	9 EX					4 EX (11) 8 9 5	5 ex (12)	6 EX (13) ^{Arge}	7 (14) 88	8	132 			12/1/1961 151.35 12/1/1961 152.35 12/1/1961 152.35 12/1/1961 151.34 12/1/1961 152.33 12/1/1961 151.38 12/1/1961 151.39 12/1/1961 151.31	New Number * 46.5T 41.5T 44.5T 39.5T 49.5T 49.5T 37.5T
AVE	20 (21) (9:28)	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132 12 (44)			1 + - ¹³² - 1 1 1 1 1 1 1 1 1	+ , , , , , , , , , , , ,	17 EX 72	16	3 15 1	14	13	 + - ¹³² - 1 12 	+ - ^{13<u>1</u>.18} - 1 11 1 11 1 5 5 1		12/0/1981 151-35 12/0/1981 151-37 12/0/1981 152-34 12/0/1981 152-35 12/0/1981 152-35 12/0/1981 155-32 12/0/1981 155-32 19/0/1981 155-42 20/0/1981 155-42 20/0/1981 155-42 20/0/1985 152-32	88.5T 45.5T 40.5T 40.5T 42.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 43.44 153-1.2
NOS	1 (22) 09 J82 10	2 (23) 132	24	4 25	A 26	6 27	7 (28)	8 29	9 30			<u>+</u> <u>+</u> <u> </u> <u>+</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	T		(153). 5	5 5	7	8	9 66			JUT 1996 152.41 JUT 1996 152.40 JUT 1996 152.38 JUT 1996 152.43 JUT 1996 154.4 JUT 1996 152.43 JUT 1996 152.43 JUT 1996 152.29 SUT 1996 152.29 SUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.44 JUT 1996 154.42 JUT 1996 154.42	153-52 53 153-54 55 153-66 57 153-66 57 153-68 67 153-72 153-72 153-72 153-72 153-72 153-85 153-46 49 153-46 49 153-46 45 153-72
PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-41 153-42 153-42 153-42 153-72 153-72 153-72 153-72 153-72 153-65 153-46,47
				NANCE												<u>-ST.</u>				30			153-64-65 153-68.69 -
ASSESSORS		4 PG.15]Hernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 81/2(05 153-3 0-3/2010 153-75 3/2/2010 153-75	153-72 153-72 73.51 78.51 76.51 75.51 75.51 77.51 79.51 80.51 81.51 82.51

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCI	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1,	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma	sik	√	>> −E	T.R.A. 008-		31 16-2	4-15
	VE 2		0	LEAND	ER											AVE.				K GVR	t	<u> </u>	
20	1 01 067/82	132 2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 8	8 (76)	9 EX					4 EX (11) 8 9 5	5 ex (12)	6 EX (13) ^{Arge}	7 (14) 88	8	132 			12/1/1961 151.35 12/1/1961 152.35 12/1/1961 152.35 12/1/1961 152.33 12/1/1961 152.33 12/1/1961 151.38 12/1/1961 151.39 12/1/1961 152.31	Nove Number * 46.5T 41.5T 39.5T 44.5T 48.5T 49.5T 50.5T 37.5T
AVE	20 (21) (9:28)	19 20	18 (19)	132 17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132 12 (44)			1 + - ¹³² - 1 1 1 1 1 1 1 1 1	+ , , , , , , , , , , , ,	17 EX 72	16	3 15 1	14	13	 + - ¹³² - 1 12 	+ - ^{13<u>1</u>.18} - 1 11 1 11 1 5 5 1		12/0/1981 151-35 12/0/1981 151-37 12/0/1981 152-34 12/0/1981 152-35 12/0/1981 152-35 12/0/1981 155-32 12/0/1981 155-32 19/0/1981 155-42 20/0/1981 155-42 20/0/1981 155-42 30/0/1981 155-42 30/0/1	88.5T 45.5T 40.5T 40.5T 42.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 43.44 153-1.2
NOS	1 (22) 09 J82 10	2 (23) 132	24	4 25	A 26	6 27	7 (28)	8 29	9 30			<u>+</u> <u>+</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	T		(153). 5	5 5	7	8	9 66			JUT 1996 152.41 JUT 1996 152.40 JUT 1996 152.41 JUT 1996 152.41 JUT 1996 152.42 JUT 1996 154.4.23 JUT 1996 152.42 JUT 1996 152.42 JUT 1996 152.39 JUT 1996 152.43 JUT 1996 152.44 JUT 1996 154.12	153-52-53 153-63-57 153-66-57 153-66-57 153-66-57 153-66-57 153-66-57 153-72 153-72 153-72 153-85-59 153-46-45 153-46-55 153-47 153-72
PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46,47 153-30,51
				NANCE												<u>-ST.</u>				30			153-64-65 153-68-69
ASSESSORS		4 PG.15]Hernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 81/2(05 153-3 0-3/2010 153-75 3/2/2010 153-75 3/2/2010 153-75	153-72 - 153-72 73.57 78.57 74.51 75.57 75.57 75.57 79.57 79.57 79.51 80.51 81.57 82.51

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCL	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Loc Lines Righ-Of-Way Old Loc Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		ws 1 " = 20	≻ ε	T.R.A. 008-	- 051 - - - - - - - - - - - - - - - - - - -	31 4 16-26	4-15
	VE 2		<u> </u>	LEAND												AVE.			132	R G.V.F. 131.20	┱╞		
20	110 1 087.887	2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 5	8 (76)	9 EX			1 132 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 3 	4 EX (11) 8 PEC 8 PEC	5 EX (12)	6 ex (13)	7 (14)	8	 			12/1/1981 151-36 46 12/1/1981 151-36 47 12/1/1981 152-35 47 12/1/1981 152-33 25 12/1/1981 152-33 25 12/1/1981 151-38 44 12/1/1981 151-39 46 12/1/1981 151-40 50 12/1/1981 152-31 53	ive Number * 6.5T 1.5T 4.5T 9.5T 9.5T 9.5T 0.5T 7.5T
AVE	20 21 95/262	19 20	18 (19)	132 17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132	46		I + + - ¹³² - I I I I I I I I I I I	+ , , , , , , , , , , , , ,	17 EX 72 27.55 AC ML	 		14	 13 	 + - ¹³² - 1 12 	 + _13 <u>1.18</u> 1 		12/0/1981 151-35 42 12/0/1981 151-35 42 12/0/1981 151-37 46 12/0/1981 153-34 44 12/0/1981 153-34 44 12/0/1981 151-32 42 12/0/1981 151-32 42 12/0/1981 151-33 44 9/0/1890 151-3 55 10/0/1891 151-42 55 20/0/1891 151-42 55	8,57 5,57 7,57 0,57 2,57 1,57 2,57 1,57 2,53,57 1,57 2,53,57 1,54 4,44 4,44 4,44 4,44 4,44 4,44 4,44
NO	1 (22) 09:082	2 (23)	24	FORNI 25	A s 26	6 (27)	7 (28)	8 29	9 30			$\frac{1}{7} - \frac{1}{102} - \frac{1}{102}$	<u> </u>	$\frac{1}{1}$	<u>(153)</u>	-ST	7	8		- 19 68		2/11/1966 152.41 12 2/11/1966 152.40 15 3/11/1966 151.4-10 15 3/11/1966 151.4-10 15 3/11/1966 151.4-10 15 3/11/1966 152.29 15 3/11/1966 152.49 15 3/11/1966 152.39 15 3/11/1966 152.39 15 3/11/1966 152.44 15 3/11/1966 152.44	5352 53 5356 57 5360 57 534 10 534 10 5322 30 5360 67 5372 5358 59 5348 49 5346 45
PATTERSON	20 40 3 %22 110	19 (39)	18 (38)	17 37)	16 (36)	15 35	14 34)	13 33	132 12 (32)	93.20 11 31 95.20 95.20	98788	+ - 132 -	+ 1 18 1 56	17	16 60		14	13 13	12 12 2.57 AC ML	_ ii ≦1 /0		20111996 15343.45.47.49 12 30171996 15143-50 12 30171996 1524-7 12 30171996 1524-7 12 30171996 1524-3 12 30171996 1524-3 12 30171996 1524-3 12 30171996 152-7 12 30171996 152-3.8-18 12 30171996 152-55 11 30171996 155-14 12 30171996 155-14 12	5372 5372 5331-10 5341 5344 5370,71 5372 5375 53752 531521 5346,47 5346,47
⊨= H	R			NANCE				_								- ST.		132		<u></u> '		3/1/1896 152-28 15	53-64-65 - 53-68-69 -
ASSESSOR'S Riverside Cour	nty, Calif.	4 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 2 Fg : Pg		Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					fap Refere GOLDEN V/	nce *	s	Apr 2017		30/1/996 153-3153/5 77 11 30/1/1996 153-47.60/71 12 11/1/2001 6 77 11/1/2001 6 77 11/1/2001 7 72 11/1/2001 7 72 11/1/2001 10 77 30/2005 153-3 76 30/2010 153-75 66 30/2010 153-75 86	

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCL	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Loc Lines Righ-Of-Way Old Loc Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		ws 1 " = 20	≻ ε	T.R.A. 008-	- 051 - - - - - - - - - - - - - - - - - - -	31 4 16-26	4-15
	VE 2		<u> </u>	LEAND												AVE.			132	R G.V.F. 131.20	┱╞		
20	110 1 087.887	2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 5	8 (76)	9 EX			1 132 2 		4 EX (11) 8 PEC 8 PEC	5 EX (12)	6 ex (13)	7 (14)	8	 			12/1/1981 151-36 46 12/1/1981 151-36 47 12/1/1981 152-35 47 12/1/1981 152-33 25 12/1/1981 152-33 25 12/1/1981 151-38 44 12/1/1981 151-39 46 12/1/1981 151-40 50 12/1/1981 152-31 53	ive Number * 6.5T 1.5T 4.5T 9.5T 9.5T 9.5T 0.5T 7.5T
AVE	20 21 95/262	19 20	18 (19)	132 17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132	46		I + + - ¹³² - I I I I I I I I I I I	+ , , , , , , , , , , , , ,	17 EX 72 27.55 AC ML	 		14	 13 	 + - ¹³² - 1 12 	 + _13 <u>1.18</u> 1 		12/0/1981 151-35 42 12/0/1981 151-35 42 12/0/1981 151-37 46 12/0/1981 153-34 44 12/0/1981 153-34 44 12/0/1981 151-32 42 12/0/1981 151-32 42 12/0/1981 151-33 44 9/0/1890 151-3 55 10/0/1891 151-42 55 20/0/1891 151-42 55	8,57 5,57 7,57 0,57 2,57 1,57 2,57 1,57 2,53,57 1,57 2,53,57 1,54 4,44 4,44 4,44 4,44 4,44 4,44 4,44
NO	1 (22) 09:082	2 (23)	24	FORNI 25	A	6 (27)	7 (28)	8 29	9 30			$\frac{1}{7} - \frac{1}{102} - \frac{1}{102}$	<u> </u>	$\frac{1}{1}$	<u>(153)</u>	-ST	7	8		- 19 68		2/11/1966 152.41 12 2/11/1966 152.40 15 3/11/1966 151.4-10 15 3/11/1966 151.4-10 15 3/11/1966 151.4-10 15 3/11/1966 152.29 15 3/11/1966 152.49 15 3/11/1966 152.39 15 3/11/1966 152.39 15 3/11/1966 152.44 15 3/11/1966 152.44	5352 53 5356 57 5360 57 534 10 534 10 5322 30 5360 67 5372 5358 59 5348 49 5346 45
PATTERSON	20 40 3 %22	19 (39)	18 (38)	17 37)	16 (36)	15 35	14 34)	13 33	132 12 (32)	93.20 11 31 95.20 95.20 40	95.562	+ - 132 -	+ 1 18 1 56	17	16 60		14	13 13	12 12 2.57 AC ML	_ ii ≦1 /0		20111996 15343.45.47.49 12 30171996 15143-50 12 30171996 1524-7 12 30171996 1524-7 12 30171996 1524-3 12 30171996 1524-3 12 30171996 1524-3 12 30171996 152-7 12 30171996 152-3.8-18 12 30171996 152-55 11 30171996 155-51 12 30171996 155-14 20	5372 5372 5331-10 5341 5344 5370,71 5372 5375 53752 531521 5346,47 5346,47
⊨= H	R			NANCE				_								- ST.		132		<u>8</u> '		3/1/1896 152-28 15	53-64-65 - 53-68-69 -
ASSESSOR'S Riverside Cour	nty, Calif.	4 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 2 Fg : Pg		Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					fap Refere GOLDEN V/	nce *	s	Apr 2017		30/1/996 153-3153/5 77 11 30/1/1996 153-47.60/71 12 11/1/2001 6 77 11/1/2001 6 77 11/1/2001 7 72 11/1/2001 7 72 11/1/2001 10 77 30/2005 153-3 76 30/2010 153-75 66 30/2010 153-75 86	

THIS MAP WAS IS ASSUMED FC MAY NOT COMP	OR THE ACC	URACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Loc Lines Righ-Of-Way Old Loc Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N	=== E	T.R.A. 008	- -051 	31 . 16-26	4-15 ®
	3.VE 2		<u> </u>								<u> </u>					AVE.			132	R G.V			
	110 1 00 00 00 00 00 00 00 00 00 00 00 0	2 (02)	3 (79)	4 (73) 132	5 (81) (82) (82) (83)	6 EX (78) 78	3 7 80 8	76 8	132 9 EX 09 8 8 8 132	100 j	1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 12	1 132 1 1 1 2 1 2 2 2 1 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1		4 EX (11) 895	5 ex (12)	6 ex (13) R gr	7 (14) ²⁹⁴⁶	8 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 10 1 20 1 20 20	20 	12/1/1981 151.35 2 12/1/1981 152.35 4 12/1/1981 152.35 5 12/1/1981 152.35 5 12/1/1981 152.35 5 12/1/1981 151.38 4 12/1/1981 151.38 4 12/1/1981 151.39 4 12/1/1981 151.31 5 12/1/1981 152.31 5 12/1/1981 15 12/1/1981 15 12/1/1981 15 12/1/1981 15 12/1/1981	New Number* 46.51 41.51 44.51 48.51 49.51 49.51 59.51 59.51 59.51 58.51
AVE	20 (21) ^{05,122}	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	12		-==- 	+ - ¹³² - I I 1 19 I I J	+ , 1 18 1 1 1	17 EX	 		14	↓ 13 1	+ -132 - 1 1 1 1 1 1 1 1 1 1 1 1	+ _13 <u>1.16</u> 1 11 55 57 1		12/11981 15135	45.37 47.57 40.37 42.57 42.57 42.57 42.57 51.57 52.50,57 43.44 43.44 43.44 43.44
 (†			ĒĀ	FORN	A		· - ·		132		 	+ - 132 - +	÷	+	(153)	ST.			• ·	<u>+</u>	-	3/1/1996 152-41	153-52 53 153-54.55 153-36.57
SON	1 (22) 10 10	2 23) 132	3 24)	4 25	5 26	6 (27)	7 28	8 29	9 30		1 	 2 	3	 4 	5	6	7 (70)	8	9 66	19 68 131.12	~ ~ ~	3/1/1996 152.38 3/1/1996 154.410 3/1/1996 151.42.29 3/1/1996 152.212 3/1/1996 152.219 3/1/1996 153.39.61.63.55 3/1/1996 153.39 3/1/1996 153.41 3/1/1996 152.44	153-80.61
PATTERSON	20 (40) 97982 110	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 (34)	13 (33)	12 32			19	18	17	16 60		14	13	12 82 2.57 AC ML	104.02 11574 111		31/1996 153-43.45,47.49 31/1996 152-47 31/1996 152-47 31/1996 152-43 31/1996 152-43 31/1996 152-27 31/1996 152-38-18 31/1996 155-15 31/1996 155-14-20 31/1996 151-11	183-72 183-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46-47
EI	R			NANCE				_	132	90.20 20	20 112	132				- ST.		132	132	117.10 R		3/1/1896 152-28	153-50.51 153-64-65 153-68-69 -
ASSESSOR'S Riverside Cou	nty, Calif.	4 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 21 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Fg 02 Bk 302 Pg 03					fap Raferea GOLDEN VA	nce *	s] —	Apr 2017		3/1/1996 1153-513.05.57 3/1/1996 153-613.07.1 11/1/2001 4 11/1/2001 5 11/1/2001 5 11/1/2001 5 11/1/2001 10 8/1/2005 153-3 9/4/2016 153-75 1 3/4/2015 153-75 1 3/4/2016 153-75 1	

THIS MAP WAS IS ASSUMED FC MAY NOT COMP	OR THE ACC	URACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Loc Lines Right-Of-Way Old Loc Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N 1" = 20	>>− E	T.R.A. 008	-051	31 16-2	1 4-15
	NE A		0	LEAND	ER			<u> </u>		_	1					AVE.				<u>k</u> _ GV	n -	>	
		132 02	3 (79)	132 4 (73)	5 (81)	6 EX (78)	7 80 %	8 (76)	132 9 EX 09		112 1 1 1 1 1 1 1 1 8 1 1 8 1 1 8	1 132		4 EX	5 ex (12)	6 EX (13) ^{24 SEC}	7 (14)	8 8	132 	I 191.20	20	12/1/1961 151.34 12/1/1961 152.33 12/1/1961 151.38 12/1/1961 151.39 12/1/1961 151.39	New Number * 46,51 41,51 44,51 99,51 48,51 49,51 59,51 59,51 57,51
AVE.	20 (21) ^{05,102}	132 19 20	18 (19)	132 17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132	46		 + + - ¹³² - 19 	 + 	17 EX 72 27.55 AC ML	 16 	1 15	14	13	 + - ¹³² - 12 	 + _13 <u>1</u> ,18 11 58 58 	AVE	12/01/981 151-35 12/01/981 151-37 12/01/981 152-34 12/01/981 152-34 12/01/981 152-38 12/01/981 151-32 12/01/981 151-32 12/01/981 151-32 10/01/981 151-12 20/01/981 151-12 20/01/981 151-12 20/01/981 151-12	88.5T 45.5T 47.5T 40.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 153.1.2
SON	1 (22) 09/252	2 (23) 132	3 24	4 25	A 26	6 27	7 (28)	8 29	9 30			$\frac{1}{1} - \frac{1}{102} - \frac{1}{102} - \frac{1}{102}$	1 		<u>(153)</u> 5	6 6	7	8	66		24 (3/17/1996 152-29 3/17/1996 153-39.61,63.65 3/17/1996 152-39 3/17/1996 151-30 3/17/1996 152-44 3/17/1996 151-12	153-52_53 153-56_57 153-56_57 153-66_57 153-66_67 153-62_30 153-62_30 153-62_67 153-64_49 153-62_63 153-64_45 153-64_45 153-72
PATTERSON	20 (40) 03362 12	19 (39)	18 (38)	17 37	16 (36)	15 (35)	14 34)	13 33	12 (32)			+ - ¹⁹ - ¹⁹	+ 18 56	17	16 60		14 5362	13	132 12 82 2.57 AC ML	131.12 104.02 1 11 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1		31/1/996 13343.45.47.49 31/1/996 1324-47 31/1/996 1324-7 31/1/996 1324-3 31/1/996 13243 31/1/996 13243 31/1/996 13243 31/1/996 151-51 31/1/996 151-51 31/1/996 151-51 31/1/996 152-21) 153-2 153-11-14 153-11-14 153-41 153-42 43 153-70 71 153-72 153-3 153-15-21 153-46-47 153-36-1
				NANCE												<u>- ST.</u>		_				3/1/1896 152-28 3/1/1896 152-30	153-64-65 153-68-69
ASSESSOR'S Riverside Cou	nty, Calif.	4 PG.15]Hernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 2 Pg 2 Pg 1		Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 5 11/1/2001 5 11/1/2001 7 11/1/2001 7 11/1/2001 10 8/1/2005 153-3 9/9/2010 153-75 3/2/2012 153-74	153-72 153-72 73.51 78.51 74.51 75.51 75.51 79.51 80.51 81.51 82.51

THIS MAP WAS IS ASSUMED F MAY NOT COM	OR THE ACC	URACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Lix Lines Righ-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma		N	=== E	T.R.A. 008-0		31 16-2	1 4-15
	QVE 2	<u> </u>	0		ER			L			<u> </u>					AVE.					i >		
		2 (02)	3 (79)	132 4 (73)	3 5 (81)	6 ex (78) 78	7 (80) %	76 1	132 9 EX 09 8 8 8 8 8	77 j	24 112 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1 132 1 132 1 2 2 2 2 2 2 2 1 132		4 EX (11) 80 PE	5 ex (12)	6 ex (13) ^{R gg}	7 (14) ^{20 ase}	8	132 	131.20		Date Old Number 12/1/1961 151-38 12/1/1961 152-35 12/1/1961 152-33 12/1/1961 152-33 12/1/1961 151-38 12/1/1961 151-38 12/1/1961 151-38 12/1/1961 151-38 12/1/1961 152-31 12/1/1961 152-31 12/1/1961 152-32	New Number * 46.51 41.51 44.51 46.51 48.51 49.51 59.51 59.51 53.51
AVE	20 (21) (21) (21) (21)	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	12 (44)	11 1	1 1 20 2 20 4 1 1 1	+	+	17 EX 72 27.55 AC ML	16	B	14	+	+ - ¹³² - 1 1 1 1 1 1 1 1 1	+ _131_18		12///1981 151-35 12///1981 151-37 12///1981 152-34 12///1981 152-34 12///1981 152-36 12///1981 151-31 12//1981 151-32 12//1981 151-33 0//1890 151-3 3//11896 152-42 3//11896 152-42	45.3T 47.5T 40.3T 42.5T 43.5T 53.5T 52.53.5T 43.44 153-1.2 153-52 53
Sov	1 22	2 23 132	- GAL 3 24	4 25	A 5 26	6 27	7 (28)	8 29	9 30			102 + 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1			(153). 5	5	7	8	9	68		12-14 31/1196 132-41 31/1196 132-43 31/1196 132-38 31/1196 151-10 31/1196 151-28 31/1196 152-28 31/1196 132-39 31/1196	153.34.55 153.36.57 153.80.61 — 153.4:10 153.22.30 153.86.67
PATTERSON	2387.00	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		20	+ - ¹³² - 19 (54)	18	17	16 60	+ +	14 \$986	13	132 12 2.57 AC ML	131.12 104.02 11 11			153/72 9 153/72 153/11-14 153/41 153/42 153/42 153/42 153/72 153/72 153/72 153/72 153/85/47 153/85/47 153/85/41
	<u> </u>			NANCE												<u>- ST.</u>				<u>*</u> '		3/1/1896 152-28 3/1/1896 152-30 3/1/1896 153-51.53.55 57	153-64-65 -
ASSESSOR'S Riverside Con	MAP BK31	4 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 29 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					1ap Refere GOLDEN VA	nce *	s	Apr 2017		211996 15335.50.27 211996 15335.27 11//2201 4 11//2201 5 11//2201 5 11//2201 5 11//2201 5 11//2201 8 11//2201 8 11//2201 8 21//2005 1533 26//210 15375 26//221 15374	153-72 153-72 153-75 73-51 75-51 75-51 75-51 76-51 76-51 79-51 89-51 89-51 81-51 82-51

THIS MAP WAS IS ASSUMED FT MAY NOT COMP	OR THE ACC	FOR ASSESSM URACY OF THE DCAL LOT-SPLIT	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N	► E	T.R.A. 008		31 16-24	4-15 6
			0	LEAND	ER			<u> </u>			1					AVE.							
2		2 (02)	3 (79)	132 4 (73)	5 (81)	6 EX (78)	7 80 %	8 (76)	132 9 EX (09)	i. 18. °.	20 112 1 1 1 1 1 1 1 8	1 132 1 1 2 2	 3 	4 ex (11)	⁵ ех (12)	6 ex (13)	7 (14)	8	1 132 	131,20		12/1/1961 15136 12/1/1961 15235 12/1/1961 15134 12/1/1961 15233 12/1/1961 15233 12/1/1961 15136 12/1/1961 15139	Nov Number* 46.51 41.51 29.51 48.51 49.51 49.51
AKE.	110	132		132		A	×		132	93.20	155 1 + - ¹¹² - 1	2 + - ¹³²	€I § I +			316	085	 !	 + - ¹ 32 - 	\$8 +1 +1	AVE.	12/1/1981 152:31 12/1/1981 152:32 12/1/1981 151:35 12/1/1981 151:37 12/1/1981 152:34	50,51 57,51 58,51 45,51 47,51 40,51
	20 (21) ^{05,162}	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	¹³ (42)	44			19 ⊥ ⊥ - ╦ -	, 	17 EX 72 27.55 AC ML			14	13 	12 	11 % && 	A 	12///1981 151.31 12///1981 151.32 12///1981 151.33 8/7/1890 151.3 1/7/1891 1514.2 2/7/1985 152.37 3/7/1985 152.37	42,51 41,57 42,51 43,51 51,51 52,50,51 43,44 153-1,2 153-52,53
SON	1 (22) 10 10	2 (23) 132	3 24	4 25	5 26	6 27	7 28	8 29	9 30			I III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			<u>(153)</u> 5	6	7 70	8	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 68 131.12	₩ 	31/1996 152-30 31/1996 152-38 31/1996 152-38 31/1996 151-21-29 31/1996 152-29 31/1996 152-29 31/1996 152-39 31/1996 152-39 31/1996 152-44 31/1996 152-44	15336.57 15360.61 — 15340.61 — 15322.30 15326.67 15372 15372 15346.49 15346.49 15346.49 15346.45 15344.45
PATTERSON	20 (40) 0355 110	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		20 52 112 20	19 (54)	1 18 1 56	17		+- +	14	13	12 82 2.57 AC ML	104.02 1111 111 111 111 111 111 111		3171996 1524-7 3171996 15243 3171996 15243 3171996 1523 3171996 1523 3171996 15343 3171996 15144 3171996 15141 3171996 15141	133-31-40 153-11-14 153-41 153-42 43 153-70,71 153-70 153-3 153-15-21 153-46,47 153-50,51
	·^			NANCE						_						<u>- ST.</u>				<u>8</u>	<u> </u>	3/1/1896 152-30	153.64.65 -
)							8k 294 Pg 21 Pg 10	Bk 21 Fg 2	2	Bk 316 Pg 21 Bk 302 Pg 02										11//2001 4 11//2001 6 11//2001 5 11//2001 7 11//2001 8 11//2001 10 8//2005 153-3	153-72
ASSESSOR'S Riverside Cou	nty, Calif.	14 PG.15	JHernan	dez					Pg 11	Pg 1	6	Bk 302 Pg 03					GOLDEN VA	NCE *	s	Apr 2017			81,5T 82,5T

THIS MAP WAS I IS ASSUMED FO MAY NOT COMP	R THE ACCL	RACY OF THE	DATA SHOWN.	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Lot Lines Righ-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		w	≻ ε	T.R.A. 008	-051	3 1 16-	14-15 -26
\sim		<u> </u>		LEAND	FR			L			<u> </u>					AVE.					- H		
	V.E. 24 110	132	<u> </u>	132	3	, <u> </u>	1 3 -		132		2020 112	132	i						132	131.20	20	Date * Old Number *	
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AVE.	110	132		132	<u> </u>	<u> </u>	<u> </u>		132	93.20	F - 112	+	+	<u> </u>				ļ	+ - 132 -	+ _13 <u>1.</u> 18		12/1/1981 152-32 12/1/1981 151-35 12/1/1981 151-37	45.3T 47.5T
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		- ₁₃₂	Ē	FORNI	A			<u> </u>	- 132 -	Kn20 ;		⊥ <u> </u>	<u>_</u>	±	(153)	- ST				· 		3/1/1896 151-52,53 3/1/1996 152-42	153-1,2 153-52 53
	1	2 23	3 (24)	4 (25)	5 (26)	6 (27)	7 (28)	8 (29)	30	10 (48)	 - 1 N		 3		5	6	7			10 032		2/17/996 15241 2/17/996 15240 3/17/996 15238 2/17/996 1514-10 3/17/996 151-21-29 3/17/996 15229	153-54-55 153-86-57 153-80-61 153-4-10 153-22-30 153-86-87
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PATTERSON	20 (40)	19 (39)	18 (38)	17 37	16 (36)	15 35	14 34)	13 (33)	12 (32)	11 (31) -	20 1 52	19	1 1 1	1 17 1	16	07 15 I	14	13	12 (82)	104.02	WEBST	3/1/1996 153-43,45,47,49 3/1/1996 151-41-50 3/1/1996 152-4-7 3/1/1996 152-43 3/1/1996 151-13 3/1/1996 152/27	19 153-72 153-31-40 153-11-14 153-41 153-42 43 153-70,71
20	3362									295.50	19532	54	(56)	58	60)	62	2) 💀		2.57 AC ML			3/1/1996 152-1-3.8-18 3/1/1996 151-51 3/1/1996 151-14-20	153-72 153-3 153-15-21
	110	132							132	93.20 20	20 112	132	\mathbb{X}_{-}			<u>ST.</u>		132	132	117.10	\backslash	3/1/1896 151-11 3/1/1996 152-21 3/1/1896 152-28	153-46-47 153-50.51 153-84-65
										<u> </u>						<u>- 31.</u>		-				3/1/1896 152:30 3/1/1896 153:51:53:55 51 3/1/1896 153:61;53:55 51	153-68.69 -
	E C								Bk 294 Pg 21	Bk 2 Pg :	94 22	Bk 316 Pg 21										3/1/1996 153-67,69,71 11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7	153.72 73.51 78.51 74.51 75.51
									Pg 10			Bk 302 Pg 02										11/1/2001 8 11/1/2001 10 8/1/2005 153-3 9:8/2010 153-75	76.ST 77.ST 79.ST 80.ST
ASSESSOR'S Riverside Cour		4 PG.15	JHernan.	dez					Pg 11	Pg I I	16	Bk 302 Pg 03					GOLDEN VA	nce * ALLEY FARM	s —	Apr 2017		3/28/2012 153-74 3/28/2017 153-41	81,5T 82,5T

THIS MAP WAS IS ASSUMED FT MAY NOT COMP	OR THE ACC	FOR ASSESSM URACY OF THE DCAL LOT-SPLIT	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N	► E	T.R.A. 008		31 16-24	4-15 6
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	20 (21) ^{05,162}	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	¹³ (42)	44			19 ⊥ ⊥ - ╦ -	, 	17 EX 72 27.55 AC ML	-		14	13 	12 	11 % && 	A 	12///1981 151.31 12///1981 151.32 12///1981 151.33 8/7/1890 151.3 1/7/1891 1514.2 2/7/1985 152.37 3/7/1985 152.37	42,51 41,57 42,51 43,51 51,51 52,50,51 43,44 153-1,2 153-52,53
SON	1 (22) 10 10	2 (23) 132	3 24	4 25	5 26	6 27	7 28	8 29	9 30			I III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			<u>(153)</u> 5	6	7 70	8	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 68 131.12	₩ 	31/1996 152-30 31/1996 152-38 31/1996 152-38 31/1996 151-21-29 31/1996 152-29 31/1996 152-29 31/1996 152-39 31/1996 152-39 31/1996 152-44 31/1996 152-44	15336.57 15360.61 — 15340.61 — 15322.30 15366.67 153.72 153.72 153.85.99 15346.49 15346.49 15346.45 15344.45
PATTERSON	20 (40) 0355 110	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		20 52 112 20	19 (54)	1 18 1 56	17		+- +	14	13	12 82 2.57 AC ML	104.02 1111 111 111 111 111 111 111		3171996 1524-7 3171996 15243 3171996 15243 3171996 1523 3171996 1523 3171996 15343 3171996 15144 3171996 15141 3171996 15141	133-31-40 153-11-14 153-41 153-42 43 153-70,71 153-70 153-3 153-15-21 153-46-47 153-50,51
	·^			NANCE						_						<u>- ST.</u>				<u>8</u>	<u> </u>	3/1/1896 152-30	153.64.65 -
)							8k 294 Pg 21 Pg 10	Bk 21 Fg 2	2	Bk 316 Pg 21 Bk 302 Pg 02										11//2001 4 11//2001 6 11//2001 5 11//2001 7 11//2001 8 11//2001 10 8//2005 153-3	153-72
ASSESSOR'S Riverside Cou	nty, Calif.	14 PG.15	JHernan	dez					Pg 11	Pg 1	6	Bk 302 Pg 03					GOLDEN VA	NCE *	s	Apr 2017			81,5T 82,5T

THIS MAP WAS IS ASSUMED FT MAY NOT COMP	OR THE ACC	FOR ASSESSM URACY OF THE DCAL LOT-SPLIT	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N	► E	T.R.A. 008		31 16-24	4-15 6
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SON	1 (22) 10 10	2 (23) 132	3 24	4 25	5 26	6 27	7 28	8 29	9 30			I I			<u>(153)</u> 5	6	7 70	8	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 68 131.12	₩ 	31/1996 152-30 31/1996 152-38 31/1996 152-38 31/1996 151-21-29 31/1996 152-29 31/1996 152-29 31/1996 152-39 31/1996 152-39 31/1996 152-44 31/1996 152-44	15336.57 15360.61 — 15340.61 — 15322.30 15366.67 153.72 153.72 153.85.99 15346.49 15346.49 15346.45 15344.45
PATTERSON	20 (40) 0355 110	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		20 52 112 20	19 (54)	1 18 1 56	17		+- +	14	13	12 82 2.57 AC ML	104.02 1111 111 111 111 111 111 111		3171996 1524-7 3171996 15243 3171996 15243 3171996 1523 3171996 1523 3171996 15343 3171996 15144 3171996 15141 3171996 15141	133-31-40 153-11-14 153-41 153-42 43 153-70,71 153-70 153-3 153-15-21 153-46,47 153-50,51
	·^			NANCE						_						<u>- ST.</u>				<u>8</u>	<u> </u>	3/1/1896 152-30	153.64.65 -
)							8k 294 Pg 21 Pg 10	Bk 21 Fg 2	2	Bk 316 Pg 21 Bk 302 Pg 02										11//2001 4 11//2001 6 11//2001 5 11//2001 7 11//2001 8 11//2001 10 8//2005 153-3	153-72
ASSESSOR'S Riverside Cou	nty, Calif.	14 PG.15	JHernan	dez					Pg 11	Pg 1	6	Bk 302 Pg 03					GOLDEN VA	NCE *	s	Apr 2017			81,5T 82,5T

IS ASSUMED	FOR THE AC	D FOR ASSESSM CURACY OF THE OCAL LOT-SPLI	E DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma		N	=== E	T.R.A. 008-0			14-15 1-26
	QVE _ 2	·	<u> </u>	LEAND			<u>,</u>		132		12	132				AVE.			132	R G.V.		,	
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	- <u>-</u>	<u>132</u> -	CAL	FORN	A		- -		- ₁₃₂ - ·	- <u></u> , - , - , - , - , - , - , - , - , - , -		<u> </u>	+	+	(153)	ST.			• <u></u>			3/1/1596 152.42 3/1/1596 152.41 3/1/1596 152.40	153-52-53 153-54-55 153-56-57
	1 (22) 10 10	2 23 132	3 24	4 25	5 26	6 (27)	7 28	8 29	9 30	10 48 	1 	 2 	3		5	6 	7 70	8 (64)	9 66	19 68 13.12		3011996 15240 30111996 15240 30111996 151410 30111996 15141-33 30111996 15249 30111996 15349 30111996 15349 30111996 15140 30111996 15244 30111996 15240	153.80.61 153.22-30 153.86.67 153.85 153.859 153.48.49 153.48.49 153.48.45
	20 40 39 20 39 20 40	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 (33)	12 (32)		- ****	19	18 56	17	16 60	+ + + + + + + + + + + 	14	13	12 82 2.57 AC ML	104.02 11 11 11 97 20 1	3	3///1996 153.43.45,47. 3///1996 151.41-00 3///1996 152.4-7 3///1996 152.4-7 3///1996 152.4-3 3///1996 152.4-3 3///1996 152.4-3 3///1996 152.4-3 3///1996 152.4-3 3///1996 152.4-3 3///1996 153.41 3///1996 151.41	153-31-40 153-11-14 153-41 153-42 43 153-70.71 153-72 153-3 153-15-21 153-46-47
	8			NANCE									·			ST.		132	132	8		3/1/1596 152-21 3/1/1596 152-28 3/1/1596 152-30	153-50.51 153-84 65 153-88.69
ASSESSOR		*)	3Hernan						Bk 294 Pg 21 Pg 10 Pg 11	Bk 25 Fg 2 Fg 1	2	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					lap Referei	nce *	s] —	Apr 2017		3/1/1996 153-51-53-55 3/1/1996 153-67-69,71 1/1/1/2001 6 1/1/1/2001 6 1/1/1/2001 7 1/1/1/2001 7 1/1/1/2001 10 8/1/2005 153-33 3/3/2001 10 8/1/2005 153-33 3/3/2010 153-75 3/2/3/2012 153-74 3/2/3/2017 153-41	

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCI	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1,	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma	sik	√	>>− E	T.R.A. 008-		31 16-2	4-15
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AVE	20 (21) (9:28)	19 20	18 (19)	132 17 18	16 (17)	15 (16)	14 (15)	13 (42)	132 12 (44)			1 + - ¹³² - 1 1 1 1 1 1 1 1 1	+ , , , , , , , , , , , ,	17 EX 72	16	3 15 1	14	13	 + - ¹³² - 1 12 	+ - ^{13<u>1</u>.18} - 1 11 1 11 1 5 5 1		12/0/1981 151-35 12/0/1981 151-37 12/0/1981 152-34 12/0/1981 152-35 12/0/1981 152-35 12/0/1981 155-32 12/0/1981 155-32 19/0/1981 155-42 20/0/1981 155-42 20/0/1981 155-42 20/0/1985 152-32	88.5T 45.5T 40.5T 40.5T 42.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 43.44 153-1.2
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PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46,47 153-30,51
				NANCE												<u>-ST.</u>				30			153-64-65 153-68-69
ASSESSORS		4 PG.15])fernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 8/1/2005 153-3 8/3/2010 153-75 3/2/2010 153-75	153-72 - 153-72 73.57 78.57 74.51 75.57 75.57 75.57 79.57 79.57 79.51 80.51 81.57 82.51

THIS MAP WAS IS ASSUMED FI MAY NOT COM	OR THE ACC	URACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Loc Lines Righ-Of-Way Old Loc Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N 1 " = 20	=== E	T.R.A. 008-	- 051 - - - - - - - - - - -	31 16-2	4 -15
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AVE	20 (21) ⁰⁵²⁰⁰	19 (20)	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	12	11	 י ان	I I I I I I I I I I I I I	+ 	17 EX	 16 		14	13 13 	+ - ¹³² - 1 1 1 1 1 1 1 1 1 1 1 1 1	+ _13 <u>1</u> 16 11 55 		12/1/1981 151.37 12/1/1981 152.38 12/1/1981 152.38 12/1/1981 152.38 12/1/1981 151.31 12/1/1981 151.31 12/1/1981 151.33 8/1/1980 151.4 1/1/1991 151.4 2/1/1995 152.37 3/1/1986 151.52.53	45.5T 47.5T 40.5T 42.5T 41.5T 42.5T 43.5T 51.5T 52.53.5T 43.44 43.44 153-1.2
	- <u>-</u>	- ₁₃₂ -	CAL	FORN	A		- -		- ₁₃₂ -	- <u>-</u> ,		<u> </u>	÷	+	(153)	ST.			• <u></u>	<u>+</u>	-		153-52 53 153-54.55 153-56.57
SON	1 (22) 99 (22) 110	2 23 132	3 24	4 25	5 26	6 27)	7 28	8 29	9 (30) 132		50 50	 2 	 		5	6 	7 (70)	8	9 66	10 68 131.12		3/1/1696 152.38 3/1/1696 151.4-10 3/1/1696 151.22.39 3/1/1696 152.29 3/1/1996 152.39 3/1/1996 152.39 3/1/1996 151.30 3/1/1996 152.244 3/1/1996 151-12	153-60.61
PATTERSON	20 (40) 95552	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 34)	13 (33)	12 (32)			19	18	58	16 60		14	13	12 82 2.57 AC ML	104.02 112.14 11 11 11 11 11 11 11 13 13 13		31/1996 13343,45,47,49 31/1996 13544-0 31/1996 1524-7 31/1996 1524-3 31/1996 1524-3 31/1996 1322-3 31/1996 1524-3,8-18 31/1996 1551-5 31/1996 1551-14-20 31/1996 151-14	153-72 153-31-40 153-31-14 153-41 153-42 43 153-70.71 153-72 153-3 153-3 153-3 153-46-47
E				NANCE								132	<u> </u>			ST.		132	132	117.10 R		3/1/1596 152-21 3/1/1596 152-28 3/1/1596 152-30	153-50.51 153-64 65 153-68.69 -
ASSESSOR'S Riverside Cou	inty, Calif.) 14 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 25 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					fap Referen GOLDEN VA	nce *	s] —	Apr 2017		2017896 1353453.0557 2017896 153347.60.71 11/1/2001 4 11/1/2001 5 11/1/2001 5 11/1/2001 5 11/1/2001 10 8/1/2005 1533 9.4/2010 133-75 2.4/3/21 153-74	

THIS MAP WAS IS ASSUMED FC MAY NOT COMP	OR THE ACC	URACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Loc Lines Righ-Of-Way Old Loc Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N	=== E	T.R.A. 008	- -051 	31 . 16-26	4-15 ®
	3.VE 2		<u> </u>								<u> </u>					AVE.			132	R G.V			
	110 1 00 00 00 00 00 00 00 00 00 00 00 0	2 (02)	3 (79)	4 (73) 132	5 (81) (82) (82) (83)	6 EX (78) 78	3 7 80 8	76 8	132 9 EX 09 8 8 8 132	100 j	1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 12	1 132 1 1 1 2 1 2 2 2 1 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1		4 EX (11) 895	5 ex (12)	6 ex (13) R gr	7 (14) ²⁹⁴⁶	8 8	1 1 1 1 1 1 1 1 1 1	1 10 1 20 1 20 20	20 	12/1/1981 151.35 2 12/1/1981 152.35 4 12/1/1981 152.35 5 12/1/1981 152.35 5 12/1/1981 152.35 5 12/1/1981 151.38 4 12/1/1981 151.38 4 12/1/1981 151.39 4 12/1/1981 152.31 5 12/1/1981 15 12/1/1981 15 12/1/1981 15 12/1/1981 15 12/1/1981	New Number* 46.51 41.51 44.51 48.51 49.51 49.51 59.51 59.51 59.51 58.51
AVE	20 (21) ^{05,122}	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	12		-==- 	+ - ¹³² - I I 19 I I J	+ , 1 18 1 1 1	17 EX	 		14	↓ 13 1	+ -132 - 1 1 1 1 1 1 1 1 1 1 1 1	+ _13 <u>1.16</u> 1 11 55 57 1		12/11981 19:135	45.37 47.57 40.37 42.57 42.57 42.57 42.57 51.57 52.50,57 43.44 43.44 43.44 43.44
 (†			ĒĀ	FORN	A		· - ·		132		 	+ - 132 - +	÷	+	(153)	ST.			• ·	<u>+</u>	-	3/1/1996 152-41	153-52 53 153-54.55 153-36.57
SON	1 (22) 10 10	2 23) 132	3 24)	4 25	5 26	6 (27)	7 28	8 29	9 30		1 	 2 	3	 4 	5	6	7 (70)	8	9 66	19 68 131.12	~ ~ ~	3/1/1996 152.38 3/1/1996 154.410 3/1/1996 151.42.29 3/1/1996 152.212 3/1/1996 152.219 3/1/1996 153.39.61.63.55 3/1/1996 153.39 3/1/1996 153.41 3/1/1996 153.42	153-80.61
PATTERSON	20 (40) 97982 110	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 (34)	13 (33)	12 32			19	18	17	16 60		14	13	12 82 2.57 AC ML	104.02 1102.74 111 111 111 111 111 111		31/1996 15343.45,47,49 31/1996 15447-0 31/1996 1524-7 31/1996 1524-7 31/1996 15247 31/1996 15227 31/1996 15243-81 31/1996 15515 31/1996 15515	183-72 183-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46-47
EI	R			NANCE				_	132	90.20 20	20 112	132				- ST.		132	132	117.10 R		3/1/1896 152-28	153-50.51 153-64-65 153-68-69 -
ASSESSOR'S Riverside Cou	nty, Calif.	4 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 21 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Fg 02 Bk 302 Pg 03					fap Raferea GOLDEN VA	nce *	s] —	Apr 2017		3/1/1996 1153-513.05.57 3/1/1996 153-613.05.57 11/1/2001 4 11/1/2001 5 11/1/2001 5 11/1/2001 5 11/1/2001 7 11/1/2001 10 8/1/2005 153-3 9/4/2016 153-75 1 3/4/2015 153-75 1 3/4/2016 153-75 1	

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCI	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1,	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma	sik	√	>> −E	T.R.A. 008-		31 16-2	4-15
	VE 2		0	LEAND	ER											AVE.				K GVR	t	<u> </u>	
20	1 01 067/82	132 2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 8	8 (76)	9 EX					4 EX (11) 8 9 5	5 ex (12)	6 EX (13) ^{Arge}	7 (14) 88	8	132 			12/1/1961 151.35 12/1/1961 152.35 12/1/1961 152.35 12/1/1961 152.33 12/1/1961 152.33 12/1/1961 151.38 12/1/1961 151.39 12/1/1961 152.31	Nove Number * 46.5T 41.5T 39.5T 44.5T 48.5T 49.5T 50.5T 37.5T
AVE	20 (21) (9:28)	19 20	18 (19)	132 17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	132 12 (44)			1 + - ¹³² - 1 1 1 1 1 1 1 1 1	+ , , , , , , , , , , , ,	17 EX 72	16	3 15 1	14	13	 + - ¹³² - 1 12 	+ - ^{13<u>1</u>.18} - 1 11 1 11 1 5 5 1		12/0/1981 151-35 12/0/1981 151-37 12/0/1981 152-34 12/0/1981 152-35 12/0/1981 152-35 12/0/1981 155-32 12/0/1981 155-32 19/0/1981 155-42 20/0/1981 155-42 20/0/1981 155-42 20/0/1985 152-32	88.5T 45.5T 40.5T 40.5T 42.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 43.44 153-1.2
NOS	1 (22) 09 J82 10	2 (23) 132	24	4 25	A 26	6 27	7	8 29	9 30			<u>+</u> <u>+</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	T		(153). 5	5 5	7	8	9 66			JUT 1996 152.41 JUT 1996 152.40 JUT 1996 152.38 JUT 1996 152.43 JUT 1996 154.4 JUT 1996 152.43 JUT 1996 152.43 JUT 1996 152.29 SUT 1996 152.29 SUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.44 JUT 1996 154.42	153-52-53 153-63-57 153-66-57 153-66-57 153-66-57 153-66-57 153-66-57 153-72 153-72 153-72 153-85-59 153-46-45 153-46-55 153-47 153-72
PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46,47 153-30,51
				NANCE												<u>-ST.</u>				30			153-64-65 153-68-69
ASSESSORS		4 PG.15])fernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 8/1/2005 153-3 8/3/2010 153-75 3/2/2010 153-75	153-72 - 153-72 73.57 78.57 74.51 75.57 75.57 75.57 79.57 79.57 79.51 80.51 81.57 82.51

THIS MAP WAS IS ASSUMED FT MAY NOT COMP	OR THE ACC	FOR ASSESSM URACY OF THE DCAL LOT-SPLIT	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N	► E	T.R.A. 008		31 16-24	4-15 6
			0	LEAND	ER			<u> </u>			1					AVE.							
2		2 (02)	3 (79)	132 4 (73)	5 (81)	6 EX (78)	7 80 %	8 (76)	132 9 EX (09)	i. 18. °.	20 112 1 1 1 1 1 1 1 8	1 132 1 1 2 2	 3 	4 ex (11)	⁵ ех (12)	6 ex (13)	7 (14)	8	1 132 	131,20		12/1/1961 15136 12/1/1961 15235 12/1/1961 15134 12/1/1961 15233 12/1/1961 15233 12/1/1961 15136 12/1/1961 15139	Nov Number* 46.51 41.51 29.51 48.51 49.51 49.51
AKE.	110	132		132	8 8	A	×		132	93.20	155 1 + - ¹¹² - 1	2 + - ¹³²	€I § I +			316	085	 !	 + - ¹ 32 - 	\$8 +1 +1	AVE.	12/1/1981 152:31 12/1/1981 152:32 12/1/1981 151:35 12/1/1981 151:37 12/1/1981 152:34	50,51 57,51 58,51 45,31 47,51 40,31
	20 (21) ^{05,162}	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	¹³ (42)	44			19 ⊥ ⊥ - ╦ -	, 	17 EX 72 27.55 AC ML	-		14	13 	12 	11 % && 	A 	12///1981 151.31 12///1981 151.32 12///1981 151.33 8/7/1890 151.3 1/7/1891 1514.2 2/7/1985 152.37 3/7/1985 152.37	42,51 41,57 42,51 43,51 51,51 52,50,51 43,44 153-1,2 153-52,53
SON	1 (22) 10 10	2 (23) 132	3 24	4 25	5 26	6 27	7 28	8 29	9 30			I III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			<u>(153)</u> 5	6	7 70	8	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 68 131.12	₩ 	31/1996 152-30 31/1996 152-38 31/1996 152-38 31/1996 151-21-29 31/1996 152-29 31/1996 152-29 31/1996 152-39 31/1996 152-39 31/1996 152-44 31/1996 152-44	15336.57 15360.61 — 15340.61 — 15322.30 15326.67 15372 15372 15346.49 15346.49 15346.49 15346.45 15344.45
PATTERSON	20 (40) 0355 110	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		20 52 112 20	19 (54)	1 18 1 56	17		+- +	14	13	12 82 2.57 AC ML	104.02 1111 111 111 111 111 111 111		3171996 1524-7 3171996 15243 3171996 15243 3171996 1523 3171996 1523 3171996 15343 3171996 15144 3171996 15141 3171996 15141	133-31-40 153-11-14 153-41 153-42 43 153-70,71 153-70 153-3 153-15-21 153-46,47 153-50,51
	·^			NANCE						_						<u>- ST.</u>				<u>8</u>	<u> </u>	3/1/1896 152-30	153.64.65 -
)							8k 294 Pg 21 Pg 10	Bk 21 Fg 2	2	Bk 316 Pg 21 Bk 302 Pg 02										11//2001 4 11//2001 6 11//2001 5 11//2001 7 11//2001 8 11//2001 10 8//2005 153-3	153-72
ASSESSOR'S Riverside Cou	nty, Calif.	14 PG.15	JHernan	dez					Pg 11	Pg 1	6	Bk 302 Pg 03					GOLDEN VA	NCE *	s	Apr 2017			81,5T 82,5T

THIS MAP WAS IS ASSUMED FI MAY NOT COM	OR THE ACC	URACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Loc Lines Righ-Of-Way Old Loc Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N 1 " = 20	=== E	T.R.A. 008-	- 051 - - - - - - - - -	31 16-2	4 -15
	QVE 2		0		ER						 					AVE.				R GV	١Ŀ		
2		2 (02)	3 (79)	4 (73) 132	5 (81) 18 857	6 EX (78) 78	7 80 51 12	8 (76)	132 9 EX 09	1 77	24 112 1 1 1 1 1 8 1 8 1 8 1 8 1 12	1 132 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	 3 3	4 EX (11) 896	5 ex (12)	6 ex (13) R gg	7 (14)	8 	I 132 I 9 I 9 I 9 I 8 I 8 I 8 I 8 I 8 I 8 I 8 I 8 I 8 I 8	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2		12/1/1901 15235 12/1/1901 15134 12/1/1901 15134 12/1/1901 15138 12/1/1901 15139 12/1/1901 15140 12/1/1901 15231	New Number * 46.5T 41.5T 44.5T 39.5T 48.5T 49.5T 50.5T 50.5T 57.5T 38.5T
AVE	20 (21) ⁰⁵²⁰⁰	19 (20)	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	12	11	 י ان	I I I I I I I I I I I I I	+ 	17 EX	 16 		14	13 13 	+ - ¹³² - 1 1 1 1 1 1 1 1 1 1 1 1 1	+ _13 <u>1</u> 16 11 55 		12/1/1981 151.37 12/1/1981 152.38 12/1/1981 152.38 12/1/1981 152.38 12/1/1981 151.31 12/1/1981 151.31 12/1/1981 151.33 8/1/1980 151.4 1/1/1991 151.4 2/1/1995 152.37 3/1/1986 151.52.53	45.5T 47.5T 40.5T 42.5T 41.5T 42.5T 43.5T 51.5T 52.53.5T 43.44 43.44 153-1.2
	- <u>-</u>	- ₁₃₂ -	CAL	FORN	A		- -		- ₁₃₂ -	- <u>-</u> ,		<u> </u>	÷	+	(153)	ST.			• <u></u>	<u>+</u>	-		153-52 53 153-54.55 153-56.57
SON	1 (22) 99 (22) 110	2 23 132	3 24	4 25	5 26	6 27)	7 28	8 29	9 (30) 132		50 50	 2 	 		5	6 	7 (70)	8	9 66	10 68 131.12		3/1/1696 152.38 3/1/1696 151.4-10 3/1/1696 151.22.39 3/1/1696 152.29 3/1/1996 152.39 3/1/1996 152.39 3/1/1996 151.30 3/1/1996 152.244 3/1/1996 151-12	153-60.61
PATTERSON	20 (40) 95552	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 34)	13 (33)	12 (32)			19	18	58	16 60		14	13	12 82 2.57 AC ML	104.02 112.14 11 11 11 11 11 11 11 13 13 13		31/1996 13343,45,47,49 31/1996 13544-0 31/1996 1524-7 31/1996 1524-3 31/1996 1524-3 31/1996 1322-3 31/1996 1524-3,8-18 31/1996 1551-5 31/1996 1551-14-20 31/1996 151-14	153-72 153-31-40 153-31-14 153-41 153-42 43 153-70.71 153-72 153-3 153-3 153-3 153-46-47
E				NANCE								132	<u> </u>			ST.		132	132	117.10 R		3/1/1596 152-21 3/1/1596 152-28 3/1/1596 152-30	153-50.51 153-64 65 153-68.69 -
ASSESSOR'S Riverside Cou	inty, Calif.) 14 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 25 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					fap Referen GOLDEN VA	nce *	s] —	Apr 2017		2017896 1353453.0557 2017896 153347.60.71 11/1/2001 4 11/1/2001 5 11/1/2001 5 11/1/2001 5 11/1/2001 10 8/1/2005 1533 9.4/2010 133-75 2.4/3/21 153-74	

THIS MAP WAS I IS ASSUMED FO MAY NOT COMPI	R THE ACCI	JRACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1,	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic Ma	sik	√	>> −E	T.R.A. 008-		31 16-2	4-15
	VE 2		0	LEAND	ER											AVE.				K GVR	t	<u> </u>	
20	1 01 067/82	132 2 (02)	3 (79)	4 (73)	5 (81)	6 EX (78) 8 M	3 7 80 8	8 (76)	9 EX					4 EX (11) 8 9 5	5 ex (12)	6 EX (13) ^{Arge}	7 (14) 88	8	132 			12/1/1961 151.35 12/1/1961 152.35 12/1/1961 152.35 12/1/1961 152.33 12/1/1961 152.33 12/1/1961 151.38 12/1/1961 151.39 12/1/1961 152.31	Nove Number * 46.5T 41.5T 39.5T 44.5T 48.5T 49.5T 50.5T 37.5T
AVE	20 (21) (9:28)	19 20	18 (19)	132 17 18	16 (17)	15 (16)	14 (15)	13 (42)	132 12 (44)			1 + - ¹³² - 1 1 1 1 1 1 1 1 1	+ , , , , , , , , , , , ,	17 EX 72	16	3 15 1	14	13	 + - ¹³² - 1 12 	+ - ^{13<u>1</u>.18} - 1 11 1 11 1 5 5 1		12/0/1981 151-35 12/0/1981 151-37 12/0/1981 152-34 12/0/1981 152-35 12/0/1981 152-35 12/0/1981 155-32 12/0/1981 155-32 19/0/1981 155-42 20/0/1981 155-42 20/0/1981 155-42 20/0/1985 152-32	88.5T 45.5T 40.5T 40.5T 42.5T 42.5T 42.5T 43.5T 51.5T 52.50.5T 43.44 43.44 153-1.2
NOS	1 (22) 09 J82 10	2 (23) 132	24	4 25	A 26	6 27	7 (28)	8 29	9 30			<u>+</u> <u>+</u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	T		(153). 5	5 5	7	8	9 66			JUT 1996 152.41 JUT 1996 152.40 JUT 1996 152.38 JUT 1996 152.43 JUT 1996 154.4 JUT 1996 152.43 JUT 1996 152.43 JUT 1996 152.29 SUT 1996 152.29 SUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.39 JUT 1996 152.44 JUT 1996 154.42 JUT 1996 154.42	153-52-53 153-63-57 153-66-57 153-66-57 153-66-57 153-66-57 153-66-57 153-72 153-72 153-72 153-85-59 153-46-45 153-46-55 153-47 153-72
PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46,47 153-30,51
				NANCE												<u>-ST.</u>				30			153-64-65 153-68-69
ASSESSORS		4 PG.15]Hernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 8/1/2005 153-3 8/3/2010 153-75 3/2/2010 153-75	153-72 - 153-72 73.57 78.57 74.51 75.57 75.57 75.57 79.57 79.57 79.51 80.51 81.57 82.51

IS ASSUMED F	OR THE ACC	PFOR ASSESSA CURACY OF THI OCAL LOT-SPLI	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Lot Lines Right-Of-Way Old Lot Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N s 1 " = 20	=== E	T.R.A. 008		31 16:	1 4-15
	QVE 2		<u> </u>	LEAND	ER						 					AVE.			132	R G.V.	1 -		
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		- <u>132</u> -	ĒĀ	FORN	A		· ·		- <u>132</u> -			+	+	+	(153)	ST.			• ·	+	-	3/1/1996 15242 3/1/1996 15241 3/1/1996 15240	153-52-53 153-54-55 153-56-57
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PATTERSON	20 (40) 9555 110	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 (34)	13 (33)	12 (32)		20 52	19	18 56	17	16 60	+ +	14	13	12 82 2.57 AC ML	104.02 113.74 11 11 11 11 11		01/1996 153.43.45.47.49 31/1996 152.4-7 31/1996 152.4-7 31/1996 152.4-3 31/1996 152.43 31/1996 152.43 31/1996 152.43 31/1996 152.43.8-18 31/1996 155.45 31/1996 155.41	153-31-40 153-11-14 153-41 153-42 43 153-70.71 153-72 153-3 153-15-21 153-46-47
E				NANCE				_	132	93.20 200	0 112	132	IX			- <u>S</u> T.		132	132	117.10		3/1/1996 152-21 3/1/1996 152-28 3/1/1996 152-30	153-50.51 153-84-65 153-68.69
ASSESSOR®		14 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 25 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					fap Referen	nce " ILLEY FARM	s —	Apr 2017		201199 1240 311199 1334753,357 311196 1334754,71 111/2001 5 111/2001 5 111/2001 5 111/2001 8 111/2001 18 111/2001 18	

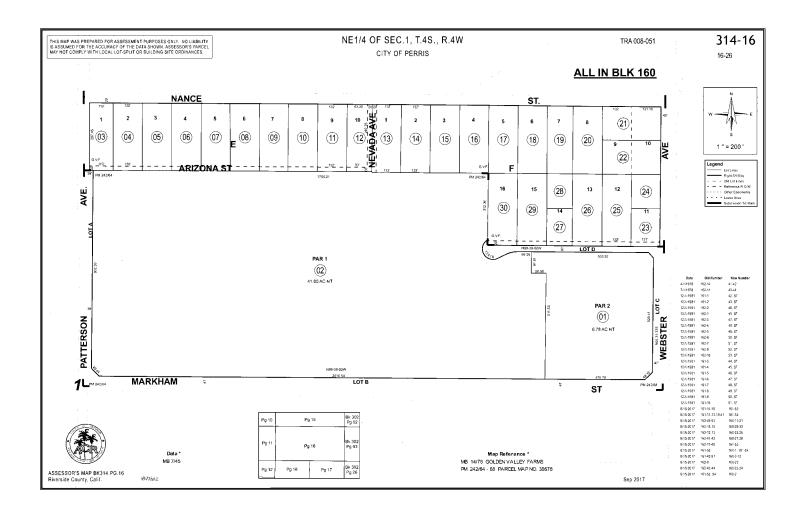
THIS MAP WAS IS ASSUMED FC MAY NOT COMP	OR THE ACC	URACY OF THE	DATA SHOWN	ASSESSOR'S	PARCEL				N	1/2, N	E 1/4,	SEC. 1	, T.4S.,	R.4W.		Loc Lines Righ-Of-Way Old Loc Lines Reference R.O.W Other Easements Lease Area Subdivision Tic M		N	=== E	T.R.A. 008	- -051 	31 . 16-26	4-15 ®
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AVE	20 (21) ^{05,122}	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	12		-==- 	+ - ¹³² - I I 19 I I J	+ , 1 18 1 1 1	17 EX	 		14	↓ 13 1	+ -132 - 1 1 1 1 1 1 1 1 1 1 1 1	+ _13 <u>1.16</u> 1 11 55 57 1		12/11981 19:135	45.37 47.57 40.37 42.57 42.57 42.57 42.57 51.57 52.50,57 43.44 43.44 43.44 43.44
 (†			ĒĀ	FORN	A		· - ·		132		 	+ - 132 - +	÷	+	(153)	ST.			• ·	<u>+</u>	-	3/1/1996 152-41	153-52 53 153-54.55 153-36.57
SON	1 (22) 10 10	2 23) 132	3 24)	4 25	5 26	6 (27)	7 28	8 29	9 30		1 	 2 	3	 4 	5	6	7 (70)	8	9 66	19 68 131.12	~ ~ ~	3/1/1996 152.38 3/1/1996 154.410 3/1/1996 151.42.29 3/1/1996 152.212 3/1/1996 152.219 3/1/1996 153.39.61.63.55 3/1/1996 153.39 3/1/1996 153.41 3/1/1996 153.42	153-80.61
PATTERSON	20 (40) 97982 110	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 (34)	13 (33)	12 32			19	18	17	16 60		14	13	12 82 2.57 AC ML	104.02 11574 111		31/1996 15343.45,47,49 31/1996 15447-0 31/1996 1524-7 31/1996 1524-7 31/1996 15247 31/1996 15227 31/1996 15243-81 31/1996 15515 31/1996 15515	183-72 183-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46-47
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ASSESSOR'S Riverside Cou	nty, Calif.	4 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 21 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Fg 02 Bk 302 Pg 03					fap Raferea GOLDEN VA	nce *	s] —	Apr 2017		3/1/1996 1153-513.05.57 3/1/1996 153-613.05.57 11/1/2001 4 11/1/2001 5 11/1/2001 5 11/1/2001 5 11/1/2001 7 11/1/2001 10 8/1/2005 153-3 9/4/2016 153-75 1 3/4/2015 153-75 1 3/4/2016 153-75 1	

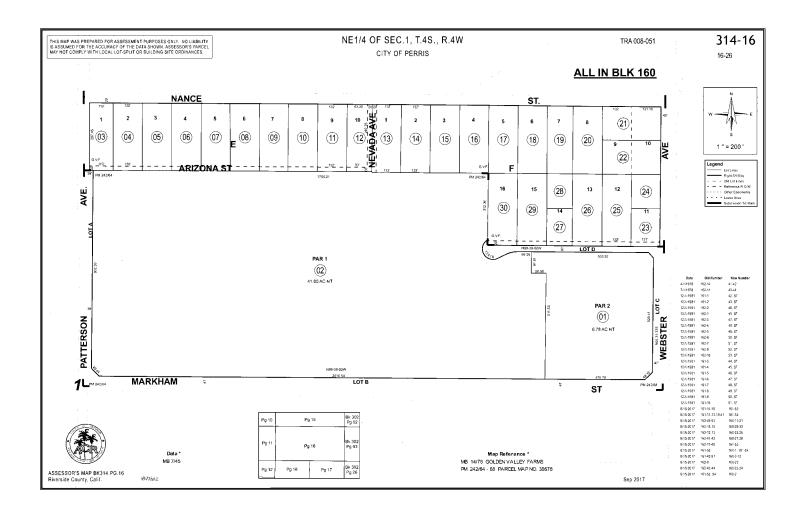
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AVE	20 (21) ^{05,122}	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	12		-==- 	+ - ¹³² - I I 19 I I J	+ , 1 18 1 1 1	17 EX	 		14	↓ 13 1	+ -132 - 1 1 1 1 1 1 1 1 1 1 1 1	+ _13 <u>1.16</u> 1 11 55 57 1		12/11981 19:135	45.37 47.57 40.37 42.57 42.57 42.57 42.57 51.57 52.50,57 43.44 43.44 43.44 43.44
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PATTERSON	20 (40) 97982 110	19 (39)	18 (38)	17 37)	16 (36)	15 (35)	14 (34)	13 (33)	12 32			19	18	17	16 60		14	13	12 82 2.57 AC ML	104.02 1102.74 111 111 111 111 111 111		31/1996 153-43.45,47.49 31/1996 152-47 31/1996 152-47 31/1996 152-43 31/1996 152-43 31/1996 152-27 31/1996 152-38-18 31/1996 155-15 31/1996 155-14 31/1996 155-14	183-72 183-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46-47
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ASSESSOR'S Riverside Cou	nty, Calif.	4 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 21 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Fg 02 Bk 302 Pg 03					fap Raferea GOLDEN VA	nce *	s] —	Apr 2017		3/1/1996 1153-513.05.57 3/1/1996 153-47.63.75 11/1/2001 4 11/1/2001 5 11/1/2001 5 11/1/2001 5 11/1/2001 10 8/1/2005 153-3 9/4/2016 153-75 1 3/4/2015 153-75 1 3/4/2016 153-75 1	

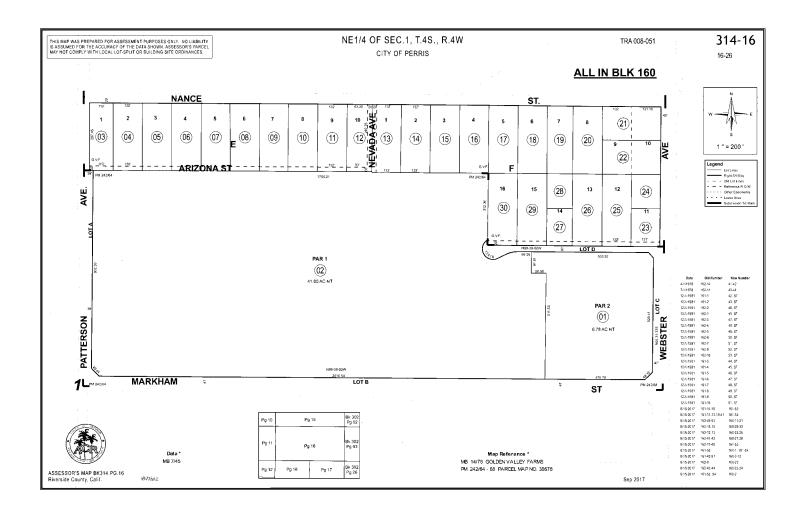
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PATTERSON	20 (40) 99 40 10	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 34)	13 33	12 (32) 132		Ê.	19 (54)	+ 18 56	17	16 (60)		14 9782	13	12 (82) 2.57 AC ML	131.12 104.02 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEDSIE	31/1/1996 153-43-45,47.49 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-4-7 31/1/1996 152-47 31/1/1996 152-27 31/1/1996 151-51 31/1/1996 151-51 31/1/1996 152-21	153-72 153-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46,47 153-30,51
				NANCE												<u>-ST.</u>				30			153-64-65 153-68-69
ASSESSORS		4 PG.15]Hernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	B& 2 Pg 1 Pg 2	22	Bk 316 Pg 21 Bk 302 Pg 02 Bk 302 Pg 03					ap Referen	nce * ILLEY FARM	s —	Apr 2017		11/1/2001 4 11/1/2001 6 11/1/2001 5 11/1/2001 7 11/1/2001 8 11/1/2001 8 11/1/2001 10 8/1/2005 153-3 8/3/2010 153-75 3/2/2010 153-75	153-72 - 153-72 73.57 78.57 74.51 75.57 75.57 75.57 79.57 79.57 79.51 80.51 81.57 82.51

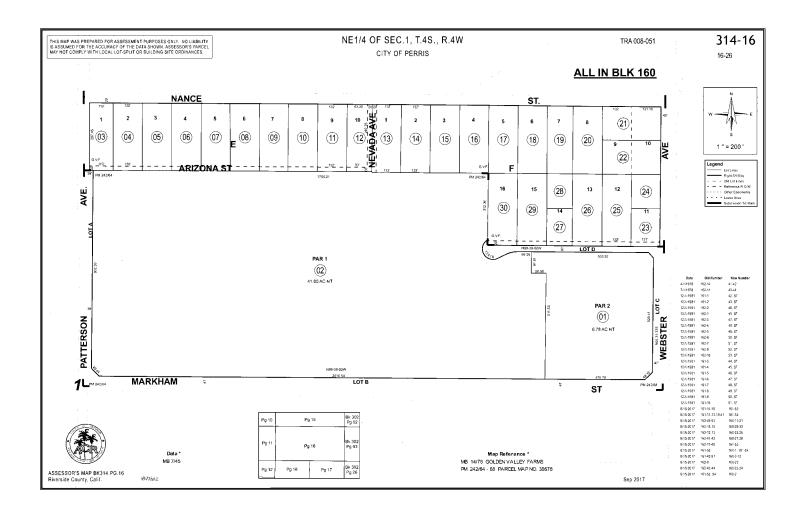
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AVE	20 (21) ^{05,122}	19 20	18 (19)	17 (18)	16 (17)	15 (16)	14 (15)	13 (42)	12		-==- 	+ - ¹³² - I I 19 I I J	+ , 1 18 1 1 1	17 EX	 		14	↓ 13 1	+ -132 - 1 1 1 1 1 1 1 1 1 1 1 1	+ _13 <u>1.16</u> 1 11 55 57 1		12/11981 15135	45.37 47.57 40.37 42.57 42.57 42.57 42.57 51.57 52.50,57 43.44 43.44 43.44 43.44
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PATTERSON	20 (40) 97982 110	19 (39)	18 (38)	17 (37)	16 (36)	15 (35)	14 (34)	13 (33)	12 32			19	18	17	16 60		14	13	12 82 2.57 AC ML	104.02 11574 111		31/1996 15343.45,47,49 31/1996 15447-0 31/1996 1524-7 31/1996 1524-7 31/1996 15247 31/1996 15227 31/1996 15243-81 31/1996 15515 31/1996 15515	183-72 183-31-40 153-11-14 153-41 153-42 153-72 153-72 153-72 153-3 153-15-21 153-46-47
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ASSESSOR'S Riverside Cou	nty, Calif.	4 PG.15	JHernan	dez					Bk 294 Pg 21 Pg 10 Pg 11	Bk 21 Fg 2 Pg 1	2	Bk 316 Pg 21 Bk 302 Fg 02 Bk 302 Pg 03					fap Raferea GOLDEN VA	nce *	s] —	Apr 2017		3/1/1996 1153-513.05.57 3/1/1996 153-613.05.57 11/1/2001 4 11/1/2001 5 11/1/2001 5 11/1/2001 5 11/1/2001 7 11/1/2001 10 8/1/2005 153-3 9/4/2016 153-75 1 3/4/2015 153-75 1 3/4/2016 153-75 1	

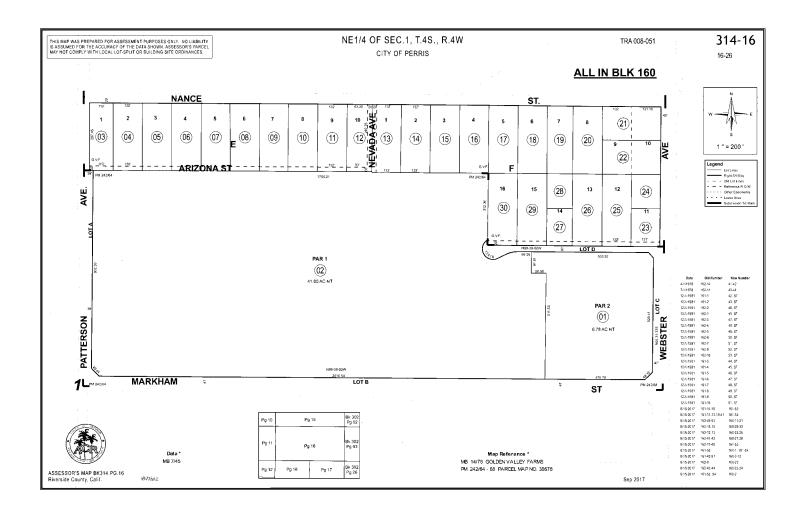
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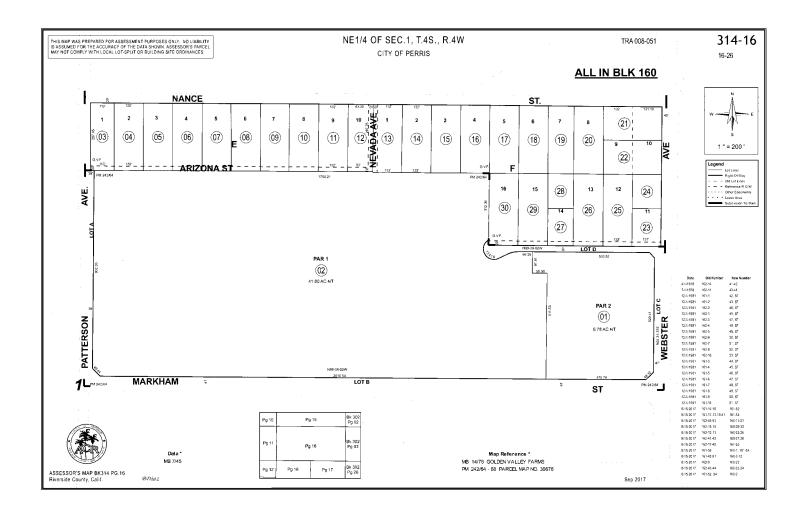


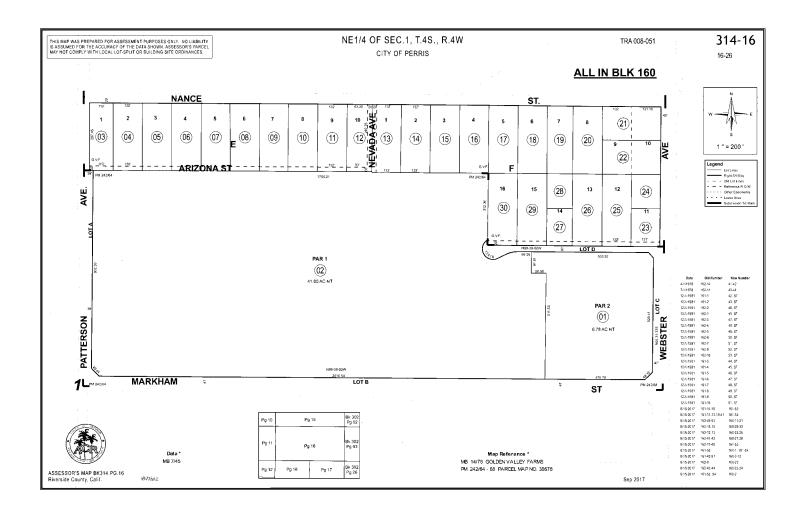


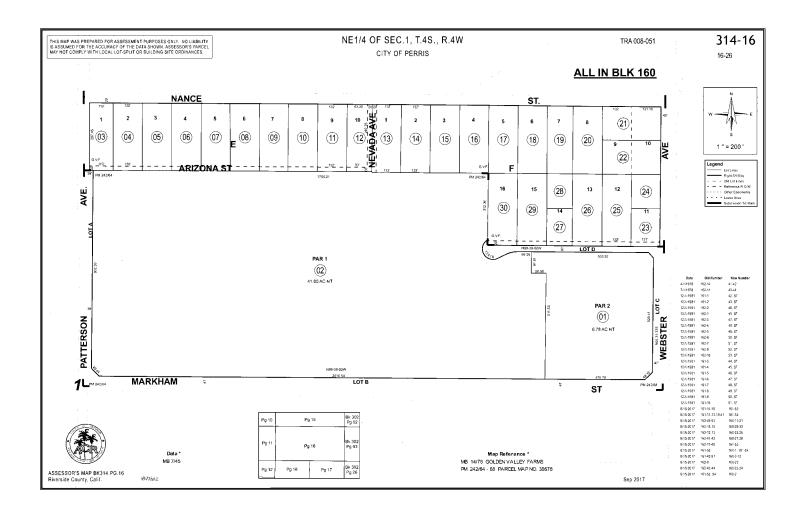












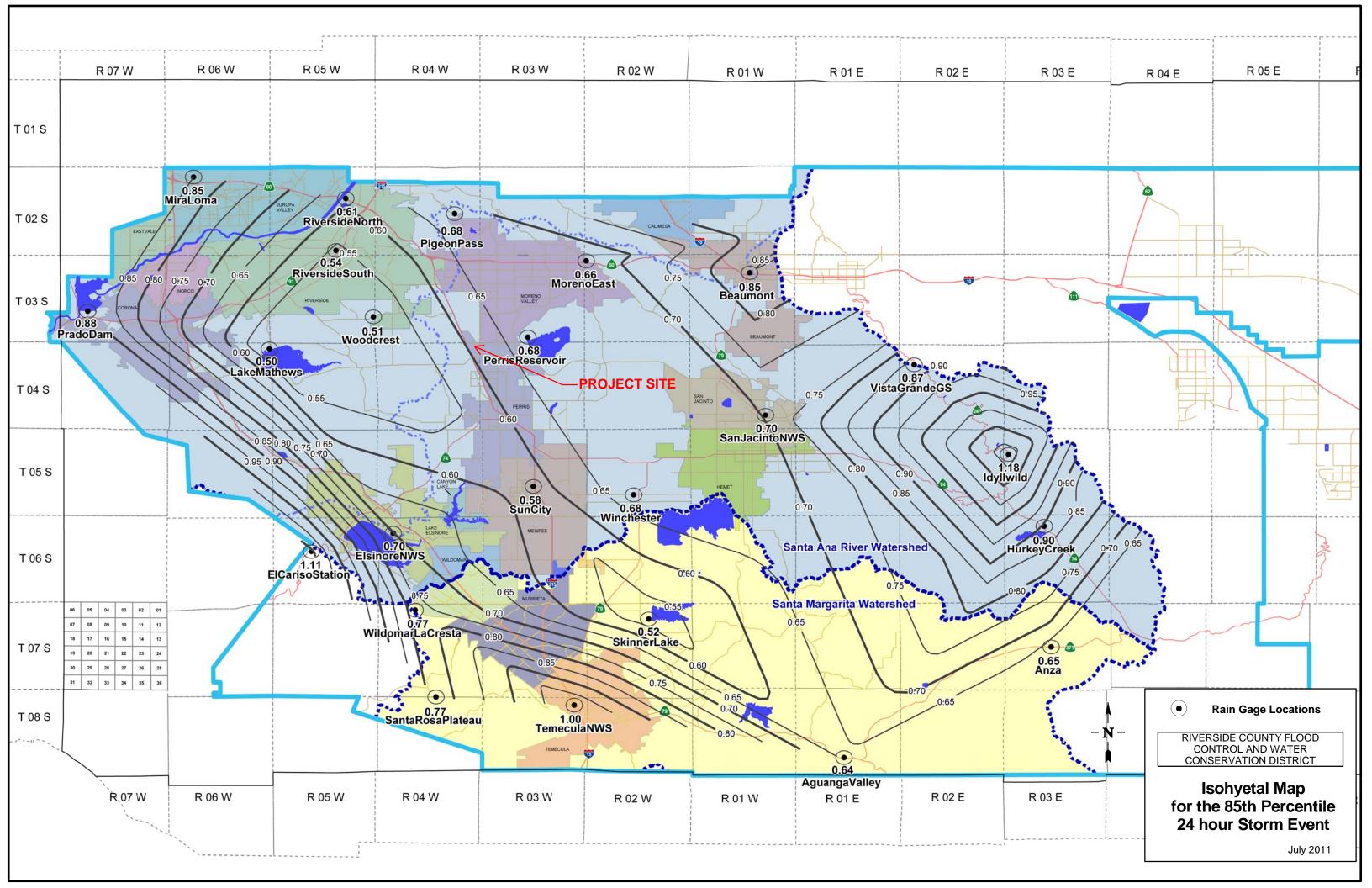
Appendix 5: LID Infeasibility

LID Technical Infeasibility Analysis

Not Applicable

Appendix 6: BMP Design Details

BMP Sizing, Design Details and other Supporting Documentation



Santa Ana Watershed - BMP Design Volume, V _{BMP} (Rev. 10-2011)							Legend:		Required Ent	ries
									Calculated C	ells
Compar			heet shall <u>only</u> be used	in conjunctio	n with BMP	designs from the	LID BMP L) 3/8/2022	
Company NameAlbert A. Webb AssociateDesigned byABE									P21-00005	
		Number/Nam	e	Duke Nance Patterson			121 00000			
BMP Identification										
BMP NAME / ID BMP-A										
Must match Name/ID used on BMP Design Calculation Sheet										
Design Rainfall Depth										
85th Per	rcentile, 24	-hour Rainfal	l Depth,				D ₈₅ =	0.62	inches	
from the	e Isohyetal	Map in Hand	book Appendix E							
Drainage Management Area Tabulation										
Insert additional rows if needed to accommodate all DMAs draining to the BMP										
	Proposed									
	DMA	DMA Area	Post-Project Surface	Effective Imperivous	DMA Runoff	DMA Areas x	Design Storm	Design Capture Volume, V_{вмр}	Volume on Plans (cubic	
	Type/ID	(square feet)	Туре	Fraction, I _f	Factor	Runoff Factor	Depth (in)	(cubic feet)	feet)	
	L-A	108,920	Ornamental	0.1	0.11	12031.1				
	R-A	759,600	Landscaping Roofs	1	0.89	677563.2				
	H-A	629,280	Concrete or Asphalt	1	0.89	561317.8				
	BMP-A	200	Ornamental Landscaping	0.1	0.11	22.1				
	SR-A	23,740	Ornamental							
	SELF-		Landscaping Ornamental							
	TREATING	31,090	Landscaping							
	<u> </u>									
	<u> </u>									
	<u> </u>									
	<u> </u>									
		1552830	7	otal		1250934.2	0.62	64631.6	64,650	
			•							I
Notes:										

DYODS TM Design Your Own Detention System	For design assistance, drawings, d pricing send completed worksheet to: dyods@contech-cpi.com	Access Riser Header
Desis of Oceaning		Bands
Project Summary		
Date:3/8/2022Project Name:Duke Nance PattersonCity / County:PerrisState:CADesigned By:ABE		Pavement Finished Grade
	Enter Information in	Backfill to Grade
Company:Albert A. Webb AssociatesTelephone:(951) 686-1070	Blue Cells	A Backfill to Grade Min. (12"-24")
Corrugated Metal Pipe Calculator	Blue Cells	
	64,650	
	65.00 11.00 Perforated 96 50.27 ft ² Pipe Area	Spacing Diameter Spacing
Stone Width Around Perimeter of System (ft): Depth A: Porous Stone Above Pipe (in): Depth C: Porous Stone Below Pipe (in):	2 3.00 2 6 6	
Stone Porosity (0 to 40%):	40	
System Sizing	-	
Pipe Storage:46,697Porous Stone Storage:18,617Total Storage Provided:65,314	cf cf 101.0% Of Required Storage	System Layout Barrel 12 o
-	barrels	Barrel 11 🖕
Length per Barrel: 165.0		Barrel 10
Length Per Header: 52.0	ft	Barrel 9
Rectangular Footprint (W x L): 56. ft x 185. ft		Barrel 8
CONTECH Materials		Barrel 7
Total CMP Footage:929Approximate Total Pieces:41		Barrel 6
	pcs bands	Barrel 5 165 Barrel 4 165
		105
Construction Quantities**	trucks	105
		Barrel 2 165
Total Excavation:4221	-	Barrel 1 165
-	cy stone cy fill Id be verified upon final design	Barrel Footage (w/o headers)
contra abiliti quantitioo are approximate and onou	na se vermea apon mila acoign	

Pump Rate Calculation

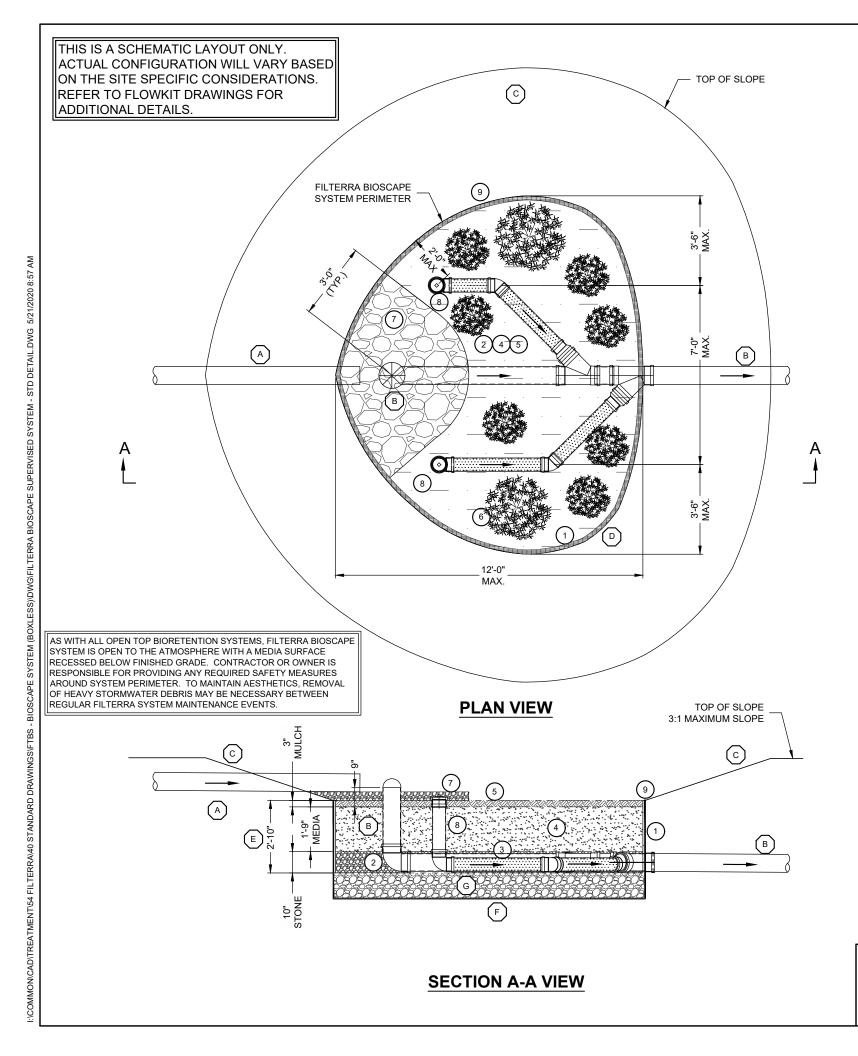
$$\frac{V_{BMP}}{t_{drain}} = Area * i = Q_{pump}$$

$$\frac{V_{BMP}}{t_{drain}} = Q_{pump}$$

$$Q_{pump} = \frac{ft^3}{hr} * \frac{1 hr}{3600 sec} * \frac{449 gpm}{1 \frac{ft^3}{sec}}$$

$$Q_{pump} = \frac{64,650 \, ft^3}{24 \, hr} * \frac{449}{3600} \, \frac{gpm}{\frac{ft^3}{hr}} = 336 \, gpm$$

$$Q_{pump} = 340 \ gpm$$



BILL OF MATERIALS

COUNT	DESCRIPTION	11
Х	FILTERRA SURFACE AREA (SF)	С
Х	MULCH VOLUME (CY)	С
XX	FILTERRA MEDIA VOLUME (CY)	С
х	1/2" #4 ROUND AGGREGATE UNDERDRAIN STONE (CY)	С
х	ENERGY DISSIPATION ROCK (CY)	С
х	EROSION CONTROL (LF)	С
х	FILTERRA FLOWKIT	С

GENERAL NOTES

- THE BIOSCAPE SYSTEM.
- 2. FACILITIES. DO NOT STOCKPILE MATERIALS NOR STORE EQUIPMENT IN THIS AREA.

- 5. FILTERRA BIOSCAPE SYSTEM ACTIVATION.
- 6. RESPONSIBILITIES

CONTRACTOR SITE PREPARATION RESPONSIBILITIES AS DENOTED BY (X) ON THIS DETAIL

- STRUCTURES.
- (В.)
- SOD IS REQUIRED TO STABILIZE SIDE SLOPES OR ADJACENT GRADE.
- SHOWN ON DETAIL AND ON PLAN SHEETS.
- (E.) ELEVATION OF MULCH AS SHOWN ON THIS DETAIL
- (F.)
- SYSTEM IF REQUIRED PER THE PLANS.
- (G.) OUT ON THE PLANS.

CONTRACTOR ACTIVATION RESPONSIBILITIES AS DENOTED BY (#) ON THIS DETAIL

- EQUIPMENT ONLY.
- 3. THIS DETAIL)
- PLACE 21" FILTERRA MEDIA USING LIGHT DUTY EQUIPMENT ONLY. DO NOT COMPACT MEDIA.
- EQUIPMENT ONLY. DO NOT COMPACT MULCH.
- PROVIDE AND PLANT VEGETATION AS INDICATED IN TABLE ON THIS DETAIL OR ON SITE PLANS
- PLACE CLEANOUT ADAPTER, PLUG AND PIPING.
- (7) (8) (9)



6		PLANTING SCHEDULE	
INSTALLED BY		*NOTE: PLANTS PROVIDED BY OTHERS	
CONTRACTOR	QUANTITY	FILTERRA BIOSCAPE SYSTEM PLANT PALETTE	
CONTRACTOR			

CONTRACTOR SHALL CONTACT CONTECH TO COORDINATE DELIVERY AND SUPERVISION OF PLACEMENT OF FILTERRA BIOSCAPE SYSTEM COMPONENTS (ACTIVATION). CONTRACTOR SHALL COMPLETE ITEMS IN THE LIST OF CONTRACTOR INSTALLATION RESPONSIBILITIES LISTED ON THIS DETAIL BEFORE CONTECH'S REPRESENTATIVE ATTENDS AND SUPERVISES THE ACTIVATION OF

PERFORM FILTERRA BIOSCAPE SYSTEM EXCAVATION ONLY AFTER ALL THE CONTRIBUTING DRAINAGE AREAS ARE PERMANENTLY STABILIZED. DO NOT CONSTRUCT FILTERRA BIOSCAPE SYSTEM IN AN AREA USED AS EROSION AND SEDIMENT CONTROL

USE METHODS OF EXCAVATION THAT MINIMIZE COMPACTION OF THE UNDERLYING SOIL UNLESS THE SYSTEM IS TO BE LINED. CONTRACTOR SHALL COORDINATE WITH CONTECH BEFORE THE FILTERRA BIOSCAPE SYSTEM AREA IS EXCAVATED TO MINIMIZE TIME BETWEEN EXCAVATION AND DELIVERY AND ACTIVATION OF THE FILTERRA BIOSCAPE SYSTEM. ANY STANDING WATER THAT ACCUMULATES IN THE EXCAVATED AREA MUST BE REMOVED BY THE CONTRACTOR BEFORE CONTECH CAN PROVIDE ACTIVATION OF THE FILTERRA BIOSCAPE SYSTEM. ANY ADDITIONAL EXCAVATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION DIMENSIONS SHOULD BE PROVIDED TO CONTECH IN THE ACTIVATION REQUEST CHECKLIST.

CONTRACTOR SHALL PROVIDE ACCESS TO THE EXCAVATED AREA(S) FOR USE DURING THE ACTIVATION OF THE FILTERRA BIOSCAPE SYSTEM(S). ACCESS SHALL NOT PROHIBIT LIGHT DUTY EQUIPMENT THAT MAY BE USED TO INSTALL THE COMPONENTS (STONE, MEDIA, ETC). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RE-STABILIZATION THAT MAY BE REQUIRED AFTER THE

CONTECH AND/OR ITS REPRESENTATIVES MUST BE SCHEDULED TO BE ON SITE FOR THE LIST ENTITLED CONTRACTOR ACTIVATION

(A.) CONTRACTOR SHALL INSTALL PIPE OR SWALE THAT CONVEYS INFLUENT FLOWS AS WELL AS ANY REQUIRED INLET AND OUTLET

CONTRACTOR SHALL PROVIDE BYPASS PIPE AND RISER OR OTHER STRUCTURE AS SHOWN ON PLANS. THE BYPASS PIPE SHALL BE INSTALLED WITH WYE(S), OR OTHER PIPE FITTINGS, AND WITH REDUCER COUPLING(S) FOR CONNECTION OF UNDERDRAIN PIPE, PER PLANS. PIPES SHALL BE INSTALLED TO PROMOTE POSITIVE FLOW FROM THE FILTERRA BIOSCAPE SYSTEM. IF REQUIRED, CONTRACTOR TO PROVIDE SHOULDER ACCORDING TO DIMENSION AND SLOPE SHOWN ON PLANS OR AS DESIGNED

BY ENGINEER OF RECORD. SLOPE FROM SHOULDER TO FILTERRA BIOSCAPE SYSTEM SURFACE AREA SHALL NOT EXCEED 3:1.

CONTRACTOR TO EXCAVATE MEDIA AREA CORRESPONDING TO THE SIZE OF THE FILTERRA BIOSCAPE SYSTEM SURFACE AREA AS

CONTRACTOR SHALL EXCAVATE VERTICALLY FROM BOTTOM OF UNDERDRAIN STONE, OR DRAINAGE STONE, IF REQUIRED, TO

CONTRACTOR TO PROVIDE AND INSTALL ANY GEOTEXTILE OR IMPERMEABLE LINER FOR BOTTOM OF THE FILTERRA BIOSCAPE

CONTRACTOR TO PROVIDE AND INSTALL ANY ADDITIONAL DRAINAGE STONE BELOW THE FILTERRA BIOSCAPE SYSTEM AS CALLED

 PLACE GEOTEXTILE FABRIC ALONG THE PERIMETER OF THE FILTERRA BIOSCAPE SYSTEM EXCAVATION
 PLACE 10" OF UNDERDRAIN STONE - 2" UNDER THE PIPING, 6" AROUND THE PIPING AND 2" ABOVE THE PIPING. PLACE 10" OF UNDERDRAIN STONE - 2" UNDER THE PIPING, 6" AROUND THE PIPING AND 2" ABOVE THE PIPING USING LIGHT DUTY

PLACE 6" UNDERDRAIN PIPING UNLESS OTHERWISE APPROVED BY CONTECH, ASSOCIATED PIPING AND FITTINGS/ELBOWS TO

CONNECT TO THE PIPING/FITTING(S) THAT IS PROVIDED BY CONTRACTOR (SEE CONTRACTOR INSTALLATION RESPONSIBILITIES

PLACE 3" DOUBLE SHREDDED HARDWOOD MULCH OVER ENTIRE FILTERRA BIOSCAPE SYSTEM SURFACE AREA USING LIGHT DUTY

PLACE ENERGY DISSIPATION ROCK APRON AS DESIGNED AND INDICATED ON THIS DETAIL OR PER ENGINEER OF RECORD PLANS.

PLACE ADDITIONAL EROSION CONTROL AROUND FILTERRA BIOSCAPE SYSTEM (IF REQUIRED)

FILTERRA BIOSCAPE™ SYSTEM STANDARD DETAIL



June 2020

GENERAL USE LEVEL DESIGNATION FOR BASIC (TSS), ENHANCED, PHOSPHORUS & OIL TREATMENT

For

CONTECH Engineered Solutions Filterra®

Ecology's Decision:

Based on Contech's submissions, including the Final Technical Evaluation Reports, dated August 2019, March 2014, December 2009, and additional information provided to Ecology dated October 9, 2009, Ecology hereby issues the following use level designations:

1. A General Use Level Designation for Basic, Enhanced, Phosphorus, and Oil Treatment for the Filterra[®] system constructed with a minimum media thickness of 21 inches (1.75 feet), at the following water quality design hydraulic loading rates:

Treatment	Infiltration Rate (in/hr) for use in Sizing
Basic	175
Phosphorus	100
Oil	50
Enhanced	175

- 2. The Filterra is not appropriate for oil spill-control purposes.
- 3. Ecology approves Filterra systems for treatment at the hydraulic loading rates listed above, and sized based on the water quality design flow rate for an off-line system. Calculate the water quality design flow rates using the following procedures:
 - Western Washington: for treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute flow rate as calculated using the latest version of the Western Washington Hydrology Model or other Ecology-approved continuous runoff model.
 - Eastern Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute flow rate as calculated using one of the three flow rate based methods described in Chapter 2.7.6 of the Stormwater Management Manual for Eastern Washington (SWMMEW) or local manual.
 - Entire State: For treatment installed downstream of detention, the water quality design flow rate is the full 2-year release rate of the detention facility.

4. This General Use Level Designation has no expiration date, but Ecology may revoke or amend the designation, and is subject to the conditions specified below.

Ecology's Conditions of Use:

Filterra systems shall comply with these conditions shall comply with the following conditions:

- 1. Design, assemble, install, operate, and maintain the Filterra systems in accordance with applicable Contech Filterra manuals and this Ecology Decision.
- 2. The minimum size filter surface-area for use in Washington is determined by using the design water quality flow rate (as determined in this Ecology Decision, Item 3, above) and the Infiltration Rate from the table above (use the lowest applicable Infiltration Rate depending on the level of treatment required). Calculate the required area by dividing the water quality design flow rate (cu-ft/sec) by the Infiltration Rate (converted to ft/sec) to obtain required surface area (sq-ft) of the Filterra unit.
- 3. Each site plan must undergo Contech Filterra review before Ecology can approve the unit for site installation. This will ensure that design parameters including site grading and slope are appropriate for use of a Filterra unit.
- 4. Filterra media shall conform to the specifications submitted to and approved by Ecology and shall be sourced from Contech Engineered Solutions, LLC with no substitutions.
- 5. Maintenance includes removing trash, degraded mulch, and accumulated debris from the filter surface and replacing the mulch layer. Use inspections to determine the site-specific maintenance schedules and requirements. Follow maintenance procedures given in the most recent version of the Filterra Operation and Maintenance Manual.
- 6. Maintenance: The required maintenance interval for stormwater treatment devices is often dependent upon the degree of pollutant loading from a particular drainage basin. Therefore, Ecology does not endorse or recommend a "one size fits all" maintenance cycle for a particular model/size of manufactured treatment device.
 - Contech designs Filterra systems for a target maintenance interval of 6 months in the Pacific Northwest. Maintenance includes removing and replacing the mulch layer above the media along with accumulated sediment, trash, and captured organic materials therein, evaluating plant health, and pruning the plant if deemed necessary.
 - Conduct maintenance following manufacturer's guidelines.
- 7. Filterra systems come in standard sizes.
- 8. Install the Filterra in such a manner that flows exceeding the maximum Filterra operating rate are conveyed around the Filterra mulch and media and will not resuspend captured sediment.
- 9. Discharges from the Filterra units shall not cause or contribute to water quality standards violations in receiving waters.

<u>Approved Alternate Configurations</u> Filterra Internal Bypass - Pipe (FTIB-P)

- 1. The Filterra® Internal Bypass Pipe allows for piped-in flow from area drains, grated inlets, trench drains, and/or roof drains. Design capture flows and peak flows enter the structure through an internal slotted pipe. Filterra® inverted the slotted pipe to allow design flows to drop through to a series of splash plates that then disperse the design flows over the top surface of the Filterra® planter area. Higher flows continue to bypass the slotted pipe and convey out the structure.
- 2. To select a FTIB-P unit, the designer must determine the size of the standard unit using the sizing guidance described above.

<u> Filterra Internal Bypass – Curb (FTIB-C)</u>

- 1. The Filterra® Internal Bypass –Curb model (FTIB-C) incorporates a curb inlet, biofiltration treatment chamber, and internal high flow bypass in one single structure. Filterra® designed the FTIB-C model for use in a "Sag" or "Sump" condition and will accept flows from both directions along a gutter line. An internal flume tray weir component directs treatment flows entering the unit through the curb inlet to the biofiltration treatment chamber. Flows in excess of the water quality treatment flow rise above the flume tray weir and discharge through a standpipe orifice; providing bypass of untreated peak flows. Americast manufactures the FTIB-C model in a variety of sizes and configurations and you may use the unit on a continuous grade when a single structure providing both treatment and high flow bypass is preferred. The FTIB-C model can also incorporate a separate junction box chamber to allow larger diameter discharge pipe connections to the structure.
- 2. To select a FTIB-C unit, the designer must determine the size of the standard unit using the sizing guidance described above.

<u>Filterra[®] Shallow</u>

- 1. The Filterra Shallow provides additional flexibility for design engineers and designers in situations where various elevation constraints prevent application of a standard Filterra configuration. Engineers can design this system up to six inches shallower than any of the previous Filterra unit configurations noted above.
- 2. Ecology requires that the Filterra Shallow provide a media contact time equivalent to that of the standard unit. This means that with a smaller depth of media, the surface area must increase.
- 3. To select a Filterra Shallow System unit, the designer must first identify the size of the standard unit using the modeling guidance described above.
- 4. Once the size of the standard Filterra unit is established using the sizing technique described above, use information from the following table to select the appropriate size Filterra Shallow System unit.

Standard Depth	Equivalent Shallow Depth
4x4	4x6 or 6x4
4x6 or 6x4	6x6
4x8 or 8x4	6x8 or 8x6
6x6	6x10 or 10x6
бх8 or 8хб	6x12 or 12x6
6x10 or 10x6	13x7

Shallow Unit Basic, Enhanced, Phosphorus, and Oil Treatment Sizing

Notes:

1. Shallow Depth Boxes are less than the standard depth of 3.5 feet but no less than 3.0 feet deep (TC to INV).

Applicant:	Contech Engineered Solutions, LLC.
Applicant's Address:	11815 NE Glenn Widing Drive Portland, OR 97220

Application Documents:

- State of Washington Department of Ecology Application for Conditional Use Designation, Americast (September 2006)
- Quality Assurance Project Plan Filterra[®] Bioretention Filtration System Performance Monitoring, Americast (April 2008)
- Quality Assurance Project Plan Addendum Filterra[®] Bioretention Filtration System Performance Monitoring, Americast (June 2008)
- Draft Technical Evaluation Report Filterra[®] Bioretention Filtration System Performance Monitoring, Americast (August 2009)
- Final Technical Evaluation Report Filterra[®] Bioretention Filtration System Performance Monitoring, Americast (December 2009)
- Technical Evaluation Report Appendices Filterra[®] Bioretention Filtration System Performance Monitoring, Americast, (August 2009)
- Memorandum to Department of Ecology Dated October 9, 2009 from Americast, Inc. and Herrera Environmental Consultants
- Quality Assurance Project Plan Filterra[®] Bioretention System Phosphorus treatment and Supplemental Basic and Enhanced Treatment Performance Monitoring, Americast (November 2011)
- Filterra[®] letter August 24, 2012 regarding sizing for the Filterra[®] Shallow System.
- University of Virginia Engineering Department Memo by Joanna Crowe Curran, Ph. D dated March 16, 2013 concerning capacity analysis of Filterra[®] internal weir inlet tray.
- Terraphase Engineering letter to Jodi Mills, P.E. dated April 2, 2013 regarding Terraflume Hydraulic Test, Filterra[®] Bioretention System and attachments.
- Technical Evaluation Report, Filterra[®] System Phosphorus Treatment and Supplemental Basic Treatment Performance Monitoring. March 27th, 2014.
- State of Washington Department of Ecology Application for Conditional Use Level Designation, Contech Engineered Solutions (May 2015)

- Quality Assurance Project Plan Filterra® Bioretention System, Contech Engineered Solutions (May 2015)
- Filterra Bioretention System Armco Avenue General Use Level Designation Technical Evaluation Report, Contech Engineered Solutions (August 2019)

Applicant's Use Level Request:

General Level Use Designation for Basic (175 in/hr), Enhanced (175 in/hr), Phosphorus (100 in/hr), and Oil Treatment (50 in/hr).

Applicant's Performance Claims:

Field-testing and laboratory testing show that the Filterra[®] unit is promising as a stormwater treatment best management practice and can meet Ecology's performance goals for basic, enhanced, phosphorus, and oil treatment.

Findings of Fact:

Field Testing 2015-2019

- 1. Contech completed field testing of a 4 ft. x 4 ft. Filterra® unit at one site in Hillsboro, Oregon from September 2015 to July 2019. Throughout the monitoring period a total of 24 individual storm events were sampled, of which 23 qualified for TAPE sampling criteria.
- 2. Contech encountered several unanticipated events and challenges that prevented them from collecting continuous flow and rainfall data. An analysis of the flow data from the sampled events, including both the qualifying and non-qualifying events, demonstrated the system treated over 99 % of the influent flows. Peak flows during these events ranged from 25 % to 250 % of the design flow rate of 29 gallons per minute.
- 3. Of the 23 TAPE qualified sample events, 13 met requirements for TSS analysis. Influent concentrations ranged from 20.8 mg/L to 83 mg/L, with a mean concentration of 46.3 mg/L. The UCL95 mean effluent concentration was 15.9 mg/L, meeting the 20 mg/L performance goal for Basic Treatment.
- 4. All 23 TAPE qualified sample events met requirements for dissolved zinc analysis. Influent concentrations range from 0.0384 mg/L to 0.2680 mg/L, with a mean concentration of 0.0807 mg/L. The LCL 95 mean percent removal was 62.9 %, meeting the 60 % performance goal for Enhanced Treatment.
- 5. Thirteen of the 23 TAPE qualified sample events met requirements for dissolved copper analysis. Influent concentrations ranged from 0.00543 mg/L to 0.01660 mg/L, with a mean concentration of 0.0103 mg/L. The LCL 95 mean percent removal was 41.2 %, meeting the 30 % performance goal for Enhanced Treatment.
- 6. Total zinc concentrations were analyzed for all 24 sample events. Influent EMCs for total zinc ranged from 0.048 mg/L to 5.290 mg/L with a median of 0.162 mg/L. Corresponding effluent EMCs for total zinc ranged from 0.015 mg/L to 0.067 mg/L with a median of

0.029 mg/L. Total event loadings for the study for total zinc were 316.85 g at the influent and 12.92 g at the effluent sampling location, resulting in a summation of loads removal efficiency of 95.9 %.

7. Total copper concentrations were analyzed for all 24 sample events. Influent EMCs for total copper ranged from 0.003 mg/L to 35.600 mg/L with a median value of 0.043 mg/L. Corresponding effluent EMCs for total copper ranged from 0.002 mg/L to 0.015 mg/L with a median of 0.004 mg/L. Total event loadings for total copper for the study were 1,810.06 g at the influent and 1.90 g at the effluent sampling location, resulting in a summation of loads removal efficiency of 99.9 %.

Field Testing 2013

- 1. Filterra completed field-testing of a 6.5 ft x 4 ft. unit at one site in Bellingham, Washington. Continuous flow and rainfall data collected from January 1, 2013 through July 23, 2013 indicated that 59 storm events occurred. Water quality data was obtained from 22 storm events. Not all the sampled storms produced information that met TAPE criteria for storm and/or water quality data.
- The system treated 98.9 % of the total 8-month runoff volume during the testing period. Consequently, the system achieved the goal of treating 91 % of the volume from the site. Stormwater runoff bypassed Filterra treatment during four of the 59 storm events.
- 3. Of the 22 sampled events, 18 qualified for TSS analysis (influent TSS concentrations ranged from 25 to 138 mg/L). The data were segregated into sample pairs with influent concentration greater than and less than 100 mg/L. The UCL95 mean effluent concentration for the data with influent less than 100 mg/L was 5.2 mg/L, below the 20-mg/L threshold. Although the TAPE guidelines do not require an evaluation of TSS removal efficiency for influent concentrations below 100 mg/L, the mean TSS removal for these samples was 90.1 %. Average removal of influent TSS concentrations greater than 100 mg/L (three events) was 85 %. In addition, the system consistently exhibited TSS removal greater than 80 % at flow rates equivalent to a 100 in/hr infiltration rate and was observed at 150 in/hr.
- 4. Ten of the 22 sampled events qualified for TP analysis. Americast augmented the dataset using two sample pairs from previous monitoring at the site. Influent TP concentrations ranged from 0.11 to 0.52 mg/L. The mean TP removal for these twelve events was 72.6 %. The LCL95 mean percent removal was 66.0, well above the TAPE requirement of 50 %. Treatment above 50 % was evident at 100 in/hr infiltration rate and as high as 150 in/hr. Consequently, the Filterra test system met the TAPE Phosphorus Treatment goal at 100 in/hr. Influent ortho-P concentrations ranged from 0.005 to 0.012 mg/L; effluent ortho-P concentrations ranged from 0.005 to 0.012 mg/L; effluent ortho-P test method is 0.01 mg/L, therefore the influent and effluent ortho-P concentrations were both at and near non-detect concentrations.

Field Testing 2008-2009

- 1. Filterra completed field-testing at two sites at the Port of Tacoma. Continuous flow and rainfall data collected during the 2008-2009 monitoring period indicated that 89 storm events occurred. The monitoring obtained water quality data from 27 storm events. Not all the sampled storms produced information that met TAPE criteria for storm and/or water quality data.
- 2. During the testing at the Port of Tacoma, 98.96 to 99.89 % of the annual influent runoff volume passed through the POT1 and POT2 test systems respectively. Stormwater runoff bypassed the POT1 test system during nine storm events and bypassed the POT2 test system during one storm event. Bypass volumes ranged from 0.13 % to 15.3% of the influent storm volume. Both test systems achieved the 91 % water quality treatment-goal over the 1-year monitoring period.
- 3. Consultants observed infiltration rates as high as 133 in/hr during the various storms. Filterra did not provide any paired data that identified percent removal of TSS, metals, oil, or phosphorus at an instantaneous observed flow rate.
- 4. The maximum storm average hydraulic loading rate associated with water quality data is <40 in/hr, with the majority of flow rates < 25 in/hr. The average instantaneous hydraulic loading rate ranged from 8.6 to 53 in/hr.
- 5. The field data showed a removal rate greater than 80 % for TSS with an influent concentration greater than 20 mg/L at an average instantaneous hydraulic loading rate up to 53 in/hr (average influent concentration of 28.8 mg/L, average effluent concentration of 4.3 mg/L).
- 6. The field data showed a removal rate generally greater than 54 % for dissolved zinc at an average instantaneous hydraulic loading rate up to 60 in/hr and an average influent concentration of 0.266 mg/L (average effluent concentration of 0.115 mg/L).
- 7. The field data showed a removal rate generally greater than 40 % for dissolved copper at an average instantaneous hydraulic loading rate up to 35 in/hr and an average influent concentration of 0.0070 mg/L (average effluent concentration of 0.0036 mg/L).
- 8. The field data showed an average removal rate of 93 % for total petroleum hydrocarbon (TPH) at an average instantaneous hydraulic loading rate up to 53 in/hr and an average influent concentration of 52 mg/L (average effluent concentration of 2.3 mg/L). The data also shows achievement of less than 15 mg/L TPH for grab samples. Filterra provided limited visible sheen data due to access limitations at the outlet monitoring location.
- 9. The field data showed low percentage removals of total phosphorus at all storm flows at an average influent concentration of 0.189 mg/L (average effluent concentration of 0.171 mg/L). We may relate the relatively poor treatment performance of the Filterra system at this location to influent characteristics for total phosphorus that are unique to the Port of Tacoma site. It appears that the Filterra system will not meet the 50 % removal performance goal when the majority of phosphorus in the runoff is expected to be in the dissolved form.

Laboratory Testing

- 1. Filterra performed laboratory testing on a scaled down version of the Filterra unit. The lab data showed an average removal from 83-91 % for TSS with influents ranging from 21 to 320 mg/L, 82-84 % for total copper with influents ranging from 0.94 to 2.3 mg/L, and 50-61 % for orthophosphate with influents ranging from 2.46 to 14.37 mg/L.
- 2. Filterra conducted permeability tests on the soil media.
- 3. Lab scale testing using Sil-Co-Sil 106 showed removals ranging from 70.1 % to 95.5 % with a median removal of 90.7 %, for influent concentrations ranging from 8.3 to 260 mg/L. Filterra ran these laboratory tests at an infiltration rate of 50 in/hr.
- 4. Supplemental lab testing conducted in September 2009 using Sil-Co-Sil 106 showed an average removal of 90.6 %. These laboratory tests were run at infiltration rates ranging from 25 to 150 in/hr for influent concentrations ranging from 41.6 to 252.5 mg/L. Regression analysis results indicate that the Filterra system's TSS removal performance is independent of influent concentration in the concentration rage evaluated at hydraulic loading rates of up to 150 in/hr.

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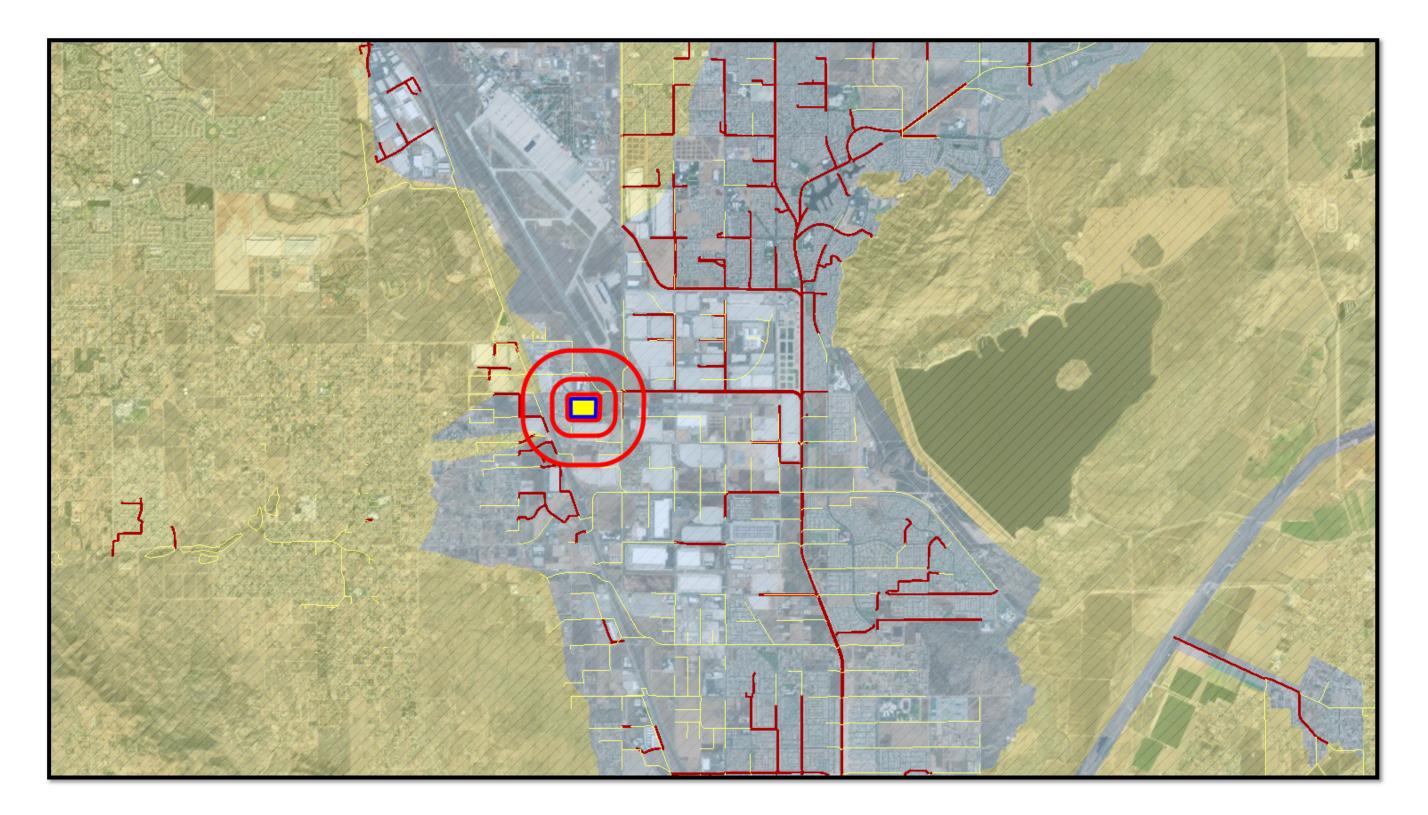
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Date	Revision	
December 2009	GULD for Basic, Enhanced, and Oil granted, CULD for Phosphorus	
September 2011	Extended CULD for Phosphorus Treatment	
September 2012	Revised design storm discussion, added Shallow System.	
January 2013	Revised format to match Ecology standards, changed Filterra contact	
	information	
February 2013	Added FTIB-P system	
March 2013	Added FTIB-C system	
April 2013	Modified requirements for identifying appropriate size of unit	

June 2013	Modified description of FTIB-C alternate configuration	
March 2014	GULD awarded for Phosphorus Treatment. GULD updated for a	
	higher flow-rate for Basic Treatment.	
June 2014	Revised sizing calculation methods	
March 2015	Revised Contact Information	
June 2015	CULD for Basic and Enhanced at 100 in/hr infiltration rate	
September 2019	GULD for Basic and Enhanced at 175 in/hr infiltration rate	
February 2020	Revised sizing language to note sizing based on off-line calculations	
June 2020	Added Phosphorus to Filterra Shallow sizing table	

Appendix 7: Hydromodification

Supporting Detail Relating to Hydrologic Conditions of Concern



Appendix 8: Source Control

Pollutant Sources/Source Control Checklist

*To be included in FWQMP

Appendix 9: O&M

Operation and Maintenance Plan and Documentation of Finance, Maintenance and Recording Mechanisms

*To be included in FWQMP

Appendix 10: Educational Materials

BMP Fact Sheets, Maintenance Guidelines and Other End-User BMP Information

*To be included in FWQMP