PUBLIC REVIEW DRAFT

MURRIETA ROAD BOOSTER PUMP STATION REPLACEMENT PROJECT

Initial Study/Mitigated Negative Declaration

PREPARED FOR:

EASTERN MUNICIPAL WATER DISTRICT

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DECEMBER 2018

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ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
AB	Assembly Bill
AMSL	above mean sea level
APN	Assessor's Parcel Number
AQ	air quality
AQMP	Air Quality Management Plan
BCC	Bird of Conservation Concern
BMPs	best management practices
BPS	Booster Pump Station
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CBC	California Building Code
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CH ₄	methane
CMP	Congestion Management Program
CNEL	community noise equivalent level
СО	carbon monoxide
CO ₂	carbon dioxide
dB	decibel
dBA	A-weighted decibel
CO₂e	carbon dioxide equivalent
EIR	environmental impact report
EMWD	Eastern Municipal Water District
FEMA	Federal Emergency Management Agency
GHG	greenhouse gas
GVSP	Green Valley Specific Plan
GWP	global warming potential
LACM	Natural History Museum of Los Angeles County
L _{dn}	day-night average noise level
L _{eq}	equivalent noise level
Ln	statistical sound level
LST	Localized Significance Threshold
MND	Mitigated Negative Declaration
MRZ	Mineral Resource Zone
MSHCP	Multiple Species Habitat Conservation Plan
MT	metric ton

Acronym/Abbreviation	Definition
NAAQS	National Ambient Air Quality Standards
NO ₂	nitrogen dioxide
NPDES	National Pollutant Discharge Elimination System
O ₃	ozone
PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 microns
PPV	peak particle velocity
PZ	Pressure Zone
RWQCB	Regional Water Quality Control Board
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SO _x	Sulfur oxides
SSC	Species of Special Concern
SWPPP	stormwater pollution prevention plan
TTM	Tentative Tract Map
VOC	volatile organic compound
WFMP	Water Facilities Master Plan
WL	Watch List
WTP	Water Treatment Plant

1 INTRODUCTION

1.1 Project Overview

The Eastern Municipal Water District (EMWD) is proposing to replace the Murrieta Road Booster Pump Station (BPS) (proposed project) in order to meet current and future hydraulic performance criteria, as well as implement improvements in safety, efficiency, reliability, operations, and maintenance. The Murrieta Road BPS is located in Riverside County, within the City of Perris (City), adjacent to Murrieta Road. The existing facility is outdated and has reached the end of its useful life. Replacement of the Murrieta Road BPS has been identified as a priority in the Water Facilities Master Plan (WFMP), Energy Management Plan, and BPS Condition Assessment.

EMWD is proposing two potential options for replacing the Murrieta Road BPS: Option A (preferred option)—construct the replacement BPS at a different site located approximately 3,000 feet north of the existing location and then demolish the existing BPS; or Option B—demolish the existing BPS and construct the replacement BPS in the same location. Under both scenarios, the project would include installation of a new BPS, associated improvements (i.e., pump station block wall building, piping, electrical and power system, transformer, and security lighting and fencing), and would keep the existing BPS in operation until a new BPS is constructed.

1.2 California Environmental Quality Act Compliance

EMWD is the lead agency responsible for the review and approval of the proposed Murrieta Road BPS project per the California Environmental Quality Act (CEQA). Based on the findings of the Initial Study, EMWD has made the determination that a Mitigated Negative Declaration (MND) is the appropriate environmental document to be prepared in compliance with CEQA (California Public Resources Code, Section 21000 et seq.). As stated in CEQA Section 21064, an MND may be prepared for a project subject to CEQA when an Initial Study has identified no potentially significant effects on the environment.

This draft MND has been prepared by EMWD as lead agency and is in conformance with Section 15070(a), of the CEQA Guidelines (14 CCR 15000 et seq.). The purpose of the MND and the Initial Study Checklist is to determine any potentially significant impacts associated with the proposed project and to incorporate mitigation measures into the project design as necessary to reduce or eliminate the significant or potentially significant effects of the project.

1.3 Previous Environmental Analysis

Both Option A and Option B are located within the boundaries of the Green Valley Specific Plan (GVSP). The environmental process for the GVSP involved the preparation of the following documents that are relevant to the consideration of the proposed project. Accordingly, the environmental analysis, significance

determinations, and/or mitigation measures included in these documents and have been incorporated by reference when applicable in accordance with Section 15150 of the CEQA Guidelines:

- Draft Environmental Impact Report (EIR) for the GVSP (City of Perris 1990)
- Final EIR for the GVSP, Volumes 1–4, Certified March 1990 (SCH No. 89032707)
- Addendum to Final EIR for the GVSP

1.4 Public Review Process

In accordance with CEQA, a good faith effort has been made during the preparation of this MND to contact affected agencies, organizations, and persons who may have an interest in this project.

In reviewing the MND, affected public agencies and the interested public should focus on the sufficiency of the document in identifying and analyzing the project's possible impacts on the environment. A copy of the draft MND and related documents are available for review at EMWD (see address below) between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday. The document is also available on EMWD's website (www.emwd.org).

Eastern Municipal Water District 2270 Trumble Road Perris, California 92750

Comments on the MND may be made in writing before the end of the public review period. A 30-day review and comment period from December 27, 2018, to January 25, 2019, has been established in accordance with CEQA Guidelines Section 15072(a). Following the close of the public comment period, the EMWD will consider this MND and comments thereto in determining whether to approve the proposed project.

Written comments on the MND should be sent to the following address by 5:00 p.m., January 25, 2019.

Eastern Municipal Water District
Post Office Box 8300
Perris, California 92572-8300
Contact: Mr. Al Javier
Telephone: (951) 928-3777 ext. 6327

Email: ceqa@emwd.org

Comments provided by email should include "Murrieta Road Booster Pump Station Replacement Project Comment" in the subject line and the name and physical address of the commenter in the body of the email.

2 PROJECT DESCRIPTION

2.1 Introduction

EMWD is proposing to replace the Murrieta Road BPS (proposed project) in order to meet current and future hydraulic performance criteria, as well as implement improvements in safety, efficiency, reliability, operations, and maintenance. The existing facility is outdated and has reached the end of its useful life. Replacement of the Murrieta Road BPS has been identified as a priority in the WFMP, Energy Management Plan, and BPS Condition Assessment.

EMWD is proposing two potential options for replacing the Murrieta Road BPS: Option A (preferred option)—construct the replacement BPS at a different site located approximately 3,000 feet north of the existing location and then demolish the existing BPS; or Option B—partially demolish the existing BPS, construct the replacement BPS in the same location, and then finish demolition of the existing facility. Under both scenarios, the project would include installation of a new BPS, associated improvements (i.e., pump station block wall building, piping, electrical and power system, transformer, and security lighting and fencing), and would keep the existing BPS in operation until a new BPS is constructed.

2.2 Project Location

The project area is located in the western Riverside County, within the southern portion of the City of Perris (Figure 1, Project Location). Regional access to the project area is via Interstate 215. The existing BPS site is located approximately 800 feet north of the intersection of Murrieta Road and Ethanac Road. EMWD currently owns and operates the existing BPS property (Assessor's Parcel Number [APN] 350-150-005), which measures approximately 150 feet by 170 feet for a total area of approximately 25,500 square feet, or 0.58 acres. The proposed relocation site (Option A) is a rectangular parcel 3,800 feet north of the intersection of Murrieta Road and Ethanac Road. The proposed relocation site under Option A (APN 330-140-019) measures 240 feet by 182 feet and has a total area of 43,473 square feet, or 1.0 acre.

2.3 Environmental Setting

Surrounding Location

Both the existing BPS site and the proposed relocation site are located within the City of Perris, and are both within the GVSP area as designated on the City's General Plan Land Use Map (City of Perris 2013a). The GVSP assigned a land use designation for the existing BPS site of Single Family (5500 – 6000 SF), and assigned the proposed relocation site (Option A) as Park (City of Perris 2017a).

The project area is located in a rural part of the City that has historically been surrounded on all sides by agricultural uses (City of Perris 2017b). As a result, these areas are relatively flat and entirely disturbed.

However, the GVSP has designated the area surrounding the existing BPS site as Single Family (5000-6000 SF) and area surrounding the proposed relocation site as Single Family (5000-6000 SF) and Park (City of Perris 2017a). The areas north, east, and west of the existing BPS site are anticipated to undergo residential development in the near future as part of Phase I of the GVSP per Tentative Tract Map (TTM) 36988 (EMWD 2017a). Improvements associated with TTM 36988 include both construction of residential lots adjacent to the existing site, as well as widening of Murrieta Road adjacent to the existing BPS (EMWD 2017a). See Figure 2, Zoning and Surrounding Land Uses, for an illustration of land uses surrounding both project sites.

2.4 Existing Conditions

The Murrieta Road BPS facility was originally constructed in 1965, with upgrades performed in 1978 and 1995 (EMWD 2017a). The facility includes an existing partially below grade BPS structure and associated piping, concrete slab, and various ornamental trees and shrubs on site (Figure 3, Existing BPS Site Aerial, and Figure 4, Existing Conditions of Existing BPS Site) (EMWD 2017a). The existing site also includes an on-site septic tank and leach field for wastewater disposal. A chain-link fence encloses the site and allows for ingress and egress.

The existing BPS is one of two in-line booster pump stations that are used in the 1627 Perris Valley Pressure Zone¹ (1627 PZ) to increase the hydraulic gradient in the system either to the south or the north depending on which supply sources are being used, and where the demand is occurring (EMWD 2016a). The BPS typically pumps water from the north to the south, but if conditions are ideal, water can bypass the pumps and gravity flow between north and south (EMWD 2016a). The gravity flow usually occurs during low demand conditions. The BPS is linked to the 1627 PZ via connections to an existing 33-inch-diameter pipe in Murrieta Road (EMWD 2017a).

The proposed relocation site is located west of Murrieta Road and approximately 3,000 feet north of the existing BPS site. The relocation site is currently vacant and used for agricultural farming (Figure 5, Existing Conditions of Option A Site). The site is not directly accessible due to the presence of fencing at the east side of the site.

The existing BPS site and proposed relocation site sit at approximate elevations 1,417 feet above mean sea level (AMSL) and 1,414 feet AMSL, respectively. Both sites are located within the San Jacinto River flood zone (Figure 6, FEMA Flood Zone), and a regulatory 100-year flood elevation of 1,420 feet ASML has been calculated (EMWD 2017a). Any BPS facilities would need to be placed 1 foot above that elevation, or at 1,421 feet AMSL. The anticipated house pads as part of Phase I of the GVSP would similarly require fill above the regulatory flood height (City of Perris 2017b). The proposed TTM 35688 Murrieta Road cross-section includes a two-tier retaining wall to raise land outside of the right-of-way to acceptable elevations (EMWD 2017a).

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A pressure zone is a geographic area that is supplied by a water source (or multiple sources) that provides a constant hydraulic gradient

2.5 Project Need

The existing BPS facility is outdated and has reached the end of its useful life (EMWD 2017a). Replacement of the Murrieta Road BPS has been identified as a priority in the WFMP, Energy Management Plan, and BPS Condition Assessment. The recently completed WFMP found that the Murrieta BPS will continue to be needed in the future to varying degrees, depending on the progression of supply improvements that will increase supply to 1627 PZ from the Metropolitan Water District of Southern California Mills Water Treatment Plant (WTP), in the north, and from the Metropolitan Water District Skinner WTP, in the south. The WFMP found that the most critical scenario for use of the Murrieta BPS is 2030 (EMWD 2017a). The 2030 scenario represents the transition period where EMWD will begin to bring on a new supply source in the southern part of 1627 PZ from Skinner WTP supply. By 2030, demands in the south are projected to increase to a point where the Murrieta BPS will be required to operate at approximately 31 cubic feet per second (13,900 gallons per minute) during maximum day conditions pumping water from the north to the south (EMWD 2017a).

EMWD contracted with West Yost Associates to analyze a range of alternatives that EMWD could implement to meet projected water demands. With West Yost Associate's recommendation, EMWD ultimately selected the proposed project, since infrastructure exists that supports continued operation of the stations without the need for extensive new high-pressure main installation (EMWD 2017a).

2.6 Project Characteristics

2.6.1 Project Description

EMWD is planning to replace the existing Murrieta Road BPS with a new and improved BPS (Figure 7, Proposed Option A Site Plan, and Figure 8, Proposed Option B Site Plan). EMWD is proposing two potential options for replacing the Murrieta Road BPS: Option A (preferred option)—construct the replacement BPS at a different site located approximately 3,000 feet north of the existing location and then demolish the existing BPS; or Option B—demolish the existing BPS and construct the replacement BPS in the same location. Under both scenarios, the project would include the following components:

• New BPS building. The proposed BPS would utilize improvements in pump and motor design, which will allow the station to provide water for both fire flow and daily system demands while maintaining operational efficiency at very low-flow rates. The proposed BPS building would be constructed of a split-face concrete block wall building that would house the main pump area, electrical room, and generator room. The building would include fan ventilation with fire-rated doors and a roof mounted AC unit would cool the electrical room. Access hatches would be located on the roof above each of the pump motors, for crane removal of pump and motor units. The generator room would include sound-attenuating features on the air intake louvers.

- **Pump station piping**. The pump station piping would be designed to allow for the full BPS capacity of 11,400 gallons per minute to be pumped in either direction. Under both Option A and B, the new BPS would connect to the existing 33-inch-diameter pipe in Murrieta Road.
- **Electrical and power system**. A new 480-volt, three-phase service by Southern California Edison (SCE) would be required to power the new pump station and would require a new pad-mounted service transformer. A 600-Ampere-rated motor control center would be installed inside the pump station to power the various pump station loads. The pump station would require a backup power source, which would be a standby diesel-fired generator. The generator would be 86% loaded with three duty pumps operating.
- **AC** induction motors. The pumping station would include three 75-horsepower vertical cast-iron electric-powered motors. The motors would be provided with 115-volt space heaters to prevent moisture condensation and winding temperature switches.
- **Security.** The pump station would be enclosed with an 8-foot-tall split-face concrete masonry unit security fence and locking gate. The pump building doors would also be locked when not occupied by operations personnel. Security would be enhanced with exterior lighting and installation of unauthorized-entry alarms on the building doors. Motion sensors would be installed, and a conduit for a future camera system provided.

2.6.2 Project Construction and Scheduling

Construction and Scheduling

Construction of both Option A and Option B would occur in one phase from June of 2021 to August of 2022. If EMWD chooses to implement Option A, the existing BPS would remain in service during construction and would be demolished once construction is complete. If EWMD chooses to implement Option B, construction operations would be coordinated to work around the existing BPS. A frontage retaining wall and a detailed construction sequence would be required and would allow for partial demolition of the west end of the existing structure while the new BPS is built and commissioned.

Improvements associated with TTM 36988 include the widening of Murrieta Road adjacent to the existing BPS. Two alternatives have been developed to allow for partial construction of the ultimate Murrieta Road cross-section adjacent to the existing BPS site, as shown in Figure 9, Option B Temporary Traffic Control Option 1, and Figure 10, Option B Temporary Traffic Control Option 2. Option B Temporary Traffic Control Option 2 is the preferred traffic control option. It is anticipated that the City of Perris would need to approve an encroachment permit for the temporary condition, unless the City waives the requirement to improve Murrieta Road as part of TTM 36988 until the BPS construction is complete.

Construction for both options would occur between 7:00 a.m. and 7:00 p.m., Monday through Friday. Night and weekend construction is not proposed. Construction equipment would include a variety of standard

construction equipment, including graders, dozers, excavators, tractors/loaders/backhoes, scrapers, a crane, forklifts, pavers, rollers, a generator set, a welder, an air compressor, and a boring jack power unit. No pile driving or other intense vibratory activities would occur at the site.

Vehicle traffic associated with work force transportation, material deliveries, and soil removal would be generated over the construction period. An average work force of approximately 10 people is assumed; the work force will use their own vehicles to reach the various construction sites. An average of 21 truck trips per day are assumed necessary for delivery and removal of material.

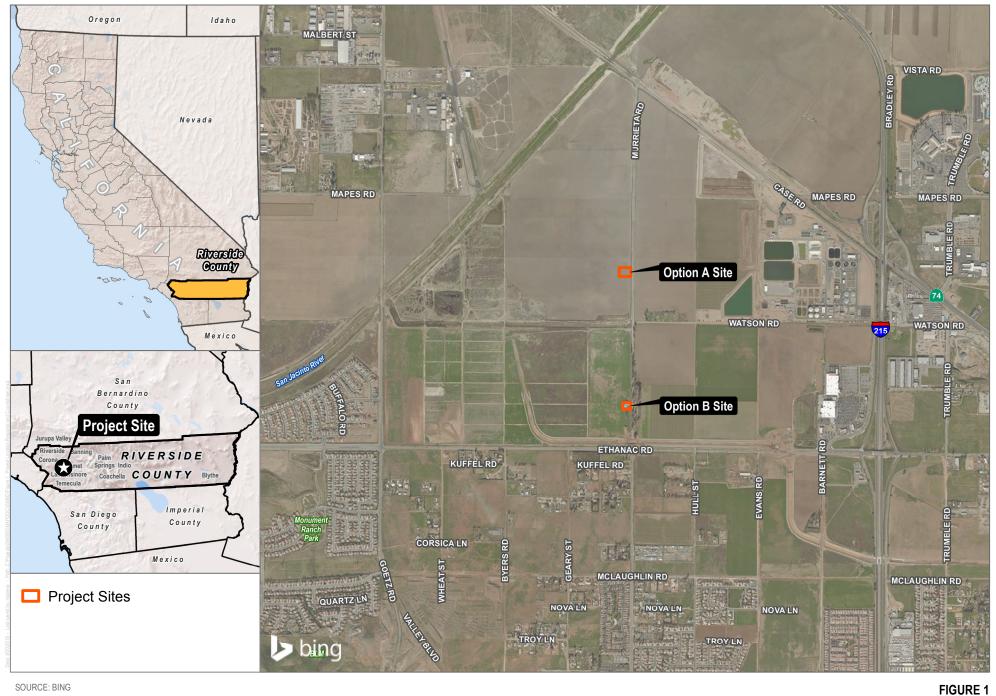
Given that both proposed sites are within the San Jacinto River flood zone and a Federal Emergency Management Agency (FEMA) flood zone, both proposed sites would require placing fill on site to increase the elevation of the structures. Option A would require approximately 6 to 7 feet of fill, and Option B would require approximately 4 to 5 feet of fill.

Demolition

Demolition of the existing BPS facility would generally be the same for both options. Demolition for both options would include removal of the existing BPS facility and restoration of the site to match the surrounding environment. The partially subterranean vault containing the station would be removed and the space backfilled. Demolition would include pumping of the septic tank, and proper removal of the tank, leach field, and surrounding soil.

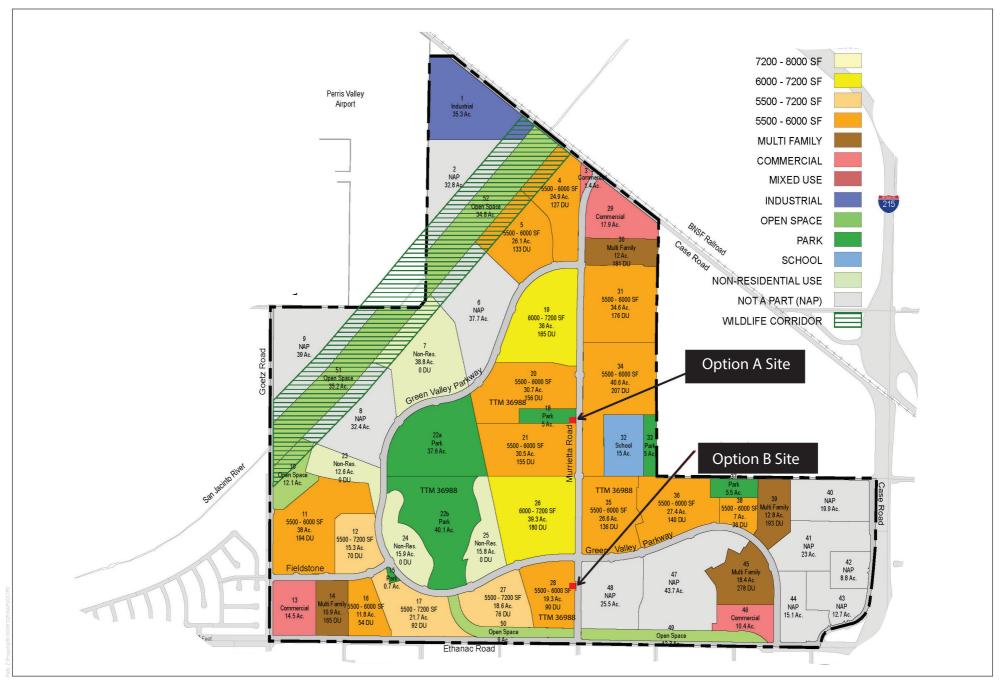
2.7 Operations and Maintenance

Once constructed and installed, the BPS facility would be owned, maintained, and operated by EMWD. The facility would operate 24 hours per day, and EMWD staff would monitor the facility on a regular basis as part of regular maintenance.



SOURCE: BING

Project Location



SOURCE: GV Specific Plan 2016

FIGURE 2
Zoning and Surrounding Land Uses



SOURCE: Google Earth 2018

FIGURE 3
Existing BPS Site Aerial



Existing BPS from Murrieta Road



Existing Partially Below Grade Booster Pump Station Building



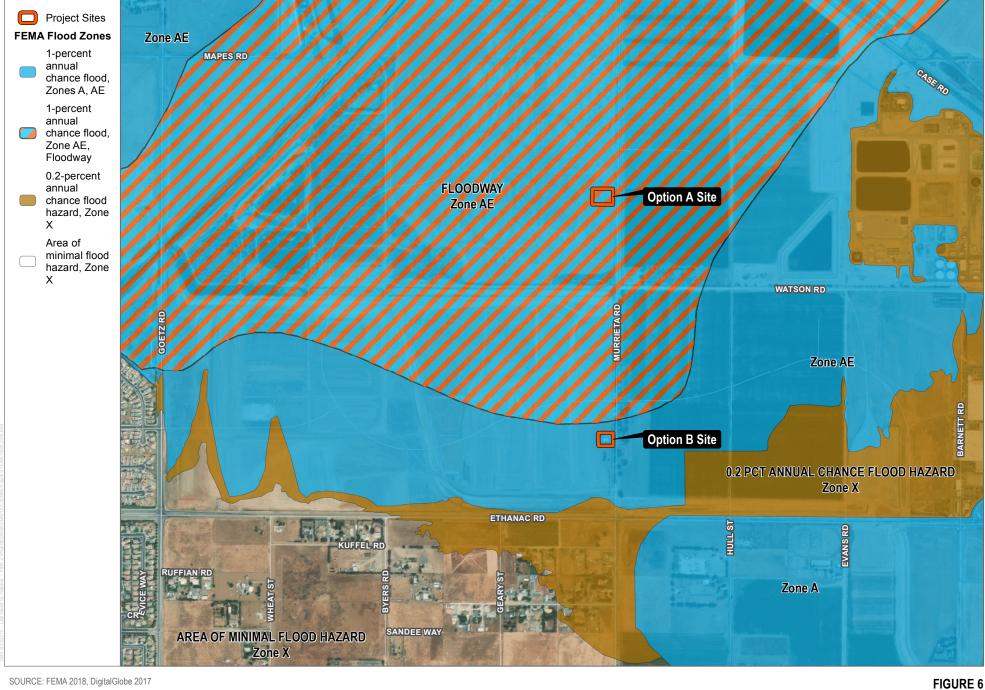


Murrieta Road to the east of Option A Site



Vacant agricultural land throughout Option A Site



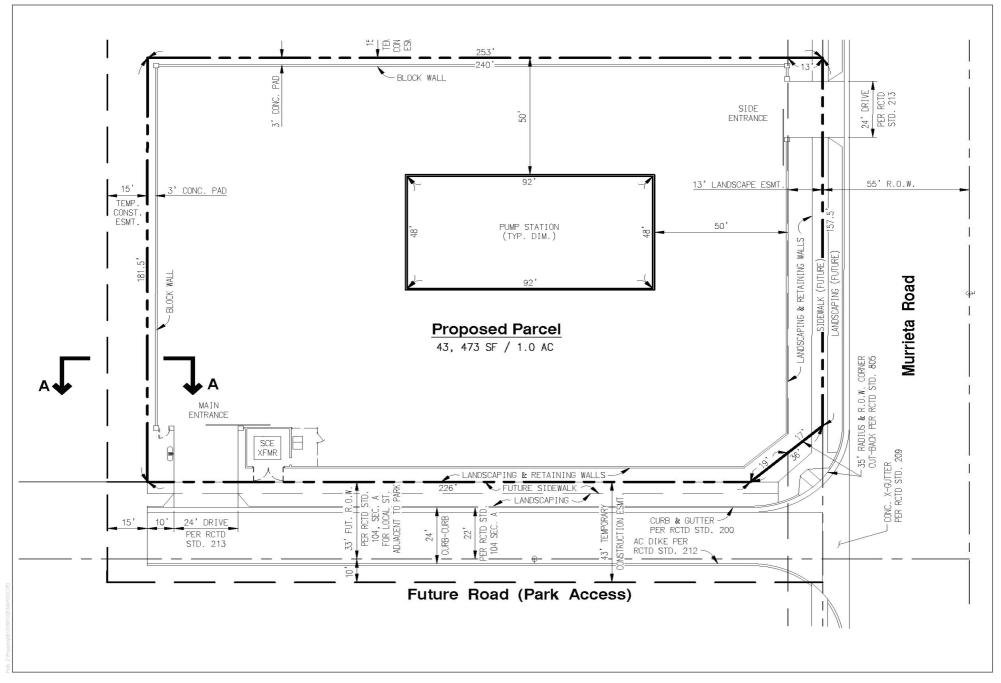


SOURCE: FEMA 2018, DigitalGlobe 2017

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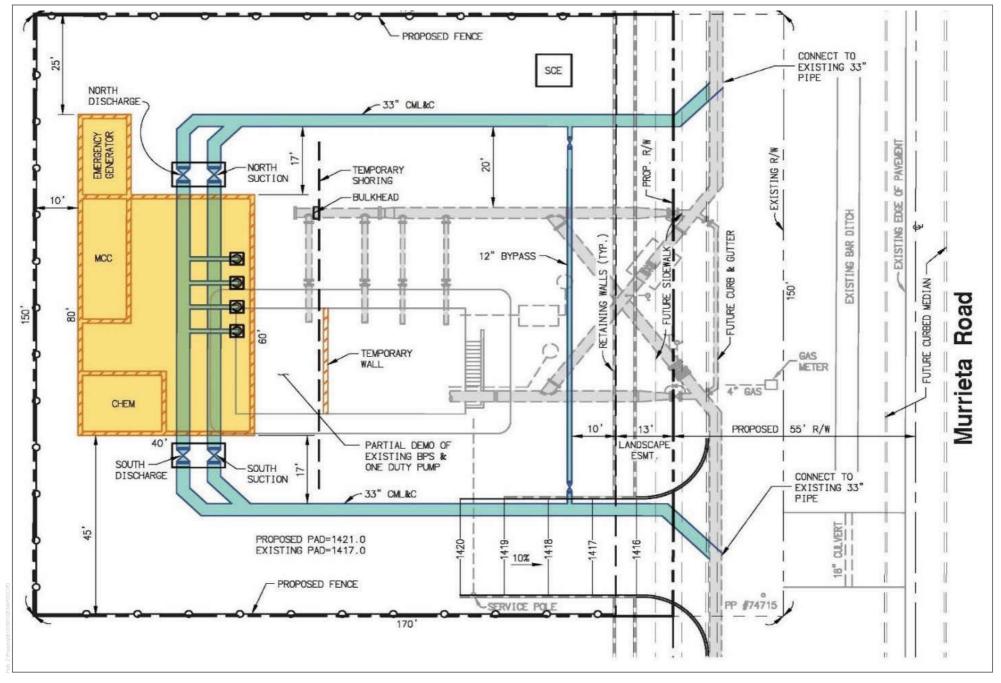
1,000

FEMA Flood Zone



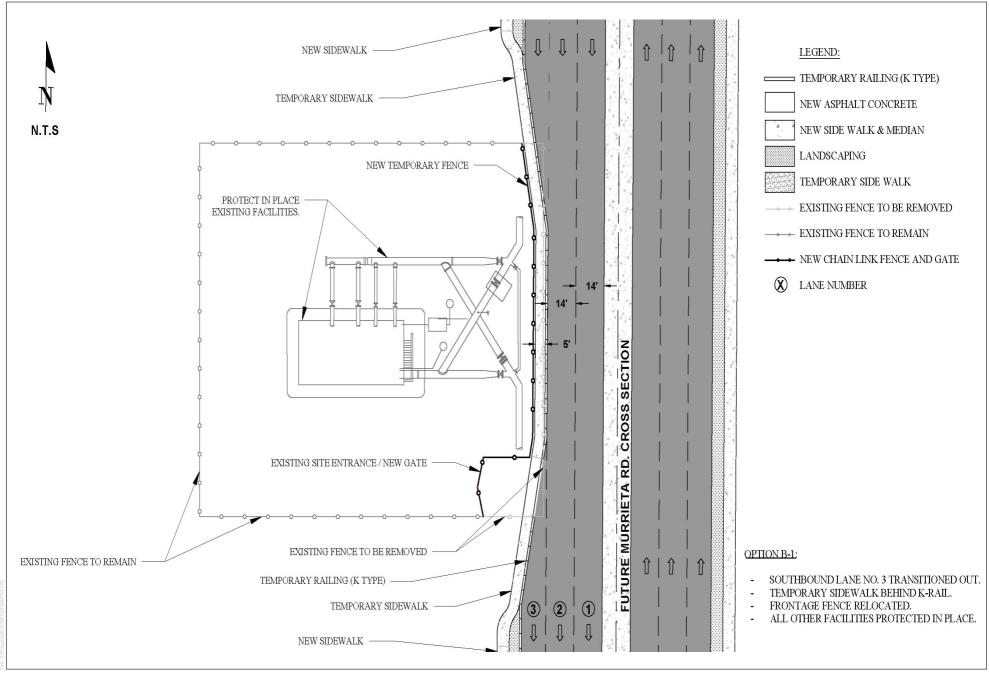
SOURCE: Infrastructure 2017

FIGURE 7
Proposed Option A Site Plan



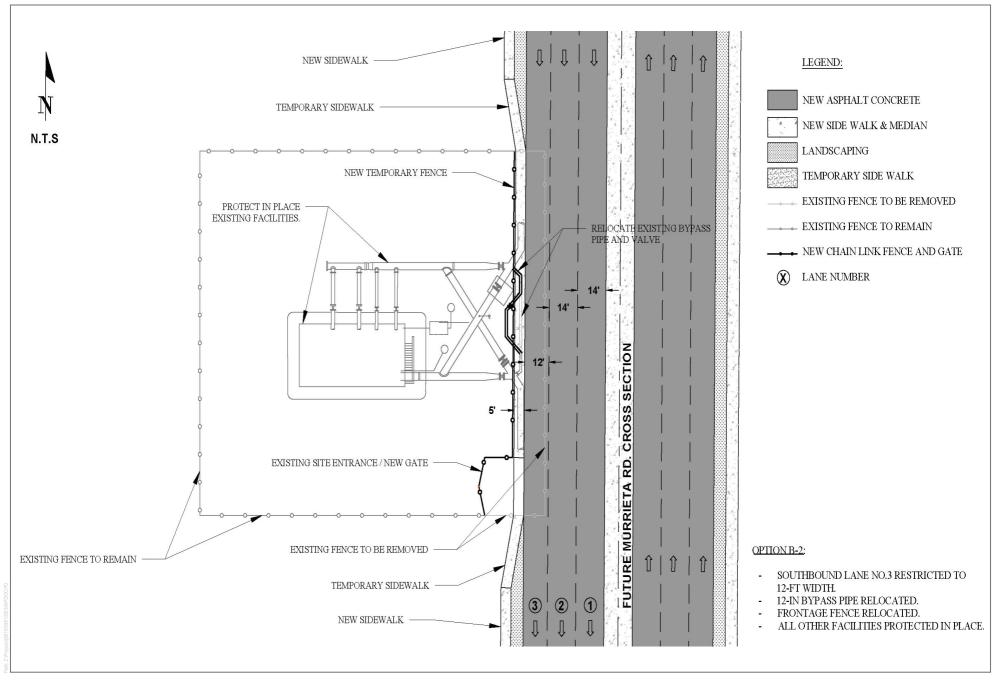
SOURCE: Infrastructure 2017

FIGURE 8
Proposed Option B Site Plan



SOURCE: Infrastructure 2017

FIGURE 9



SOURCE: Infrastructure 2017

FIGURE 10

3 INITIAL STUDY CHECKLIST

1. Project title:

Murrieta Road Booster Pump Station Replacement Project

2. Lead agency name and address:

Eastern Municipal Water District

3. Contact person and phone number:

Al Javier, 951.928.3777 ext. 6327

4. Project location:

The project is located in the County of Riverside, within the City of Perris. More specifically, the project site is located approximately 800 feet north of the intersection of Murrieta Road and Ethanac Road. The project may also include a parcel 3,800 feet north of the intersection of Murrieta Road and Ethanac Road, and is being analyzed as Option B in this study.

5. Project sponsor's name and address:

Eastern Municipal Water District, 2270 Trumble Road, Perris, California, 92507

6. General plan designation:

Green Valley Specific Plan

7. Zoning:

Green Valley Specific Plan

8. Specific plan designation:

Option A: Park (proposed new BPS)

Option B: 5500-6000 SF Residential (existing BPS)

9. Description of project. (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary):

EMWD is proposing to replace the Murrieta Road BPS (proposed project) in order to meet current and future hydraulic performance criteria, as well as implement improvements in safety, efficiency, reliability, operations, and maintenance. EMWD proposed two potential options for replacing the

Murrieta Road BPS: Option A (preferred option)—construct the replacement BPS at a different site located approximately 3,000 feet north of the existing location and then demolish the existing BPS; or Option B—demolish the existing BPS and construct the replacement BPS in the same location. Under both scenarios, the project would include installation of a new BPS, associated improvements (i.e., pump station block wall building, piping, electrical and power system, transformer, and security lighting and fencing), and would keep the existing BPS in operation until a new BPS is constructed.

10. Surrounding land uses and setting. (Briefly describe the project's surroundings):

The project area is located in a rural part of the City and that has historically been surrounded on all sides by agricultural uses. As a result, these areas are relatively flat and entirely disturbed. However, the GVSP has designated the area surrounding the existing BPS site as Single Family (5000-6000 SF) and area surrounding the proposed Option A site as Single Family (5000-6000 SF) and Park (City of Perris 2017a). The areas north, east, and west of the existing BPS are anticipated to undergo residential development in the near future as part of Phase I of the GVSP per TTM 36988. Improvements associated with TTM 36988 include both construction of residential lots adjacent to the existing site, as well as widening of Murrieta Road adjacent to the existing BPS. See Figure 2, Zoning and Surrounding Land Uses, for an illustration of land uses surrounding both project sites.

11. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement):

Approval of the following discretionary actions will be required in order to implement the proposed project:

- Approval of the project by EMWD Board of Directors
- Acquisition of the additional land required for the facility (under Option A)
- Obtaining an encroachment permit from the City of Perris
- Obtaining a National Pollutant Discharge Elimination System (NPDES) Construction General Permit (under Option A)
- Obtaining a permit from the South Coast Air Quality Management District (SCAQMD) for an emergency generator

12. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code Section 21080.3.1? If so, has consultation begun?

Yes. Please refer to Section 3.17 for additional details.

Transportation and Traffic

Mandatory Findings of

Significance

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

impact	mpact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.							
	Aesthetics		Agriculture and Forestry Resources		Air Quality			
	Biological Resources	\boxtimes	Cultural Resources		Geology and Soils			
	Greenhouse Gas Emissions		Hazards and Hazardous Materials	\boxtimes	Hydrology and Water Quality			
\boxtimes	Land Use and Planning		Mineral Resources		Noise			
	Population and Housing		Public Services		Recreation			

Tribal Cultural

Resources

The environmental factors checked below would be potentially affected by this project, involving at least one

X

 \boxtimes

Utilities and Service

Systems

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

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an Environmental Impact Report (EIR) is required.
- 4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
- 5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a. Earlier Analysis Used. Identify and state where they are available for review.
 - b. Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c. Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

- 8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9. The explanation of each issue should identify:
 - a. The significance criteria or threshold, if any, used to evaluate each question; and
 - b. The mitigation measure identified, if any, to reduce the impact to less than significance

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact	
I.	AESTHETICS – Would the project:					
a)	Have a substantial adverse effect on a scenic vista?					
b)	Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				\boxtimes	
c)	Substantially degrade the existing visual character or quality of the site and its surroundings?					
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				\boxtimes	
II.	II. AGRICULTURE AND FORESTRY RESOURCES – In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:					
a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?					
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?					
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?					

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d)	Result in the loss of forest land or conversion of forest land to non-forest use?				
e)	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				
III.	AIR QUALITY – Where available, the significance pollution control district may be relied upon to make				ement or air
a)	Conflict with or obstruct implementation of the applicable air quality plan?			\boxtimes	
b)	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?			\boxtimes	
c)	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?				
d)	Expose sensitive receptors to substantial pollutant concentrations?			\boxtimes	
e)	Create objectionable odors affecting a substantial number of people?			\boxtimes	
IV.	BIOLOGICAL RESOURCES – Would the project:				
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c)	Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?			\boxtimes	
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?			\boxtimes	
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			\boxtimes	
f)	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				
٧.	CULTURAL RESOURCES – Would the project:				
a)	Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?				
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?				
c)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		\boxtimes		
d)	Disturb any human remains, including those interred outside of dedicated cemeteries?			\boxtimes	
VI.	GEOLOGY AND SOILS – Would the project:	T			
a)	Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
	i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				
	ii) Strong seismic ground shaking?			\boxtimes	

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	iii) Seismic-related ground failure, including liquefaction?			\boxtimes	
	iv) Landslides?				\boxtimes
b)	Result in substantial soil erosion or the loss of topsoil?			\boxtimes	
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in onor off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?				
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				\boxtimes
VII.	GREENHOUSE GAS EMISSIONS – Would the pro-	oject:			
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			\boxtimes	
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			\boxtimes	
VIII	. HAZARDS AND HAZARDOUS MATERIALS	 Would the proje 	ect:		
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			\boxtimes	
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			\boxtimes	
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d)	Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				\boxtimes
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?			\boxtimes	
f)	For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				
g)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			\boxtimes	
h)	Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?			\boxtimes	
IX.	HYDROLOGY AND WATER QUALITY – Would the	ne project:			
a)	Violate any water quality standards or waste discharge requirements?		\boxtimes		
b)	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of preexisting nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?			\boxtimes	
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?			\boxtimes	
e)	Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				
f)	Otherwise substantially degrade water quality?		\boxtimes		
g)	Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				
h)	Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				
i)	Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				
j)	Inundation by seiche, tsunami, or mudflow?				\boxtimes
X.	LAND USE AND PLANNING – Would the project:				
a)	Physically divide an established community?				\boxtimes
b)	Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?			\boxtimes	
c)	Conflict with any applicable habitat conservation plan or natural community conservation plan?		\boxtimes		
XI.	MINERAL RESOURCES – Would the project:				
a)	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
b)	Result in the loss of availability of a locally- important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?				
XII.	NOISE – Would the project result in:	,	,		
a)	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
b)	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?			\boxtimes	
c)	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				
d)	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?			\boxtimes	
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				
f)	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				
XIII	. POPULATION AND HOUSING – Would the project	ot:			
a)	Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
b)	Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				
c)	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV	. PUBLIC SERVICES	<u> </u>			
a)	Would the project result in substantial adverse phy altered governmental facilities, need for new or phy could cause significant environmental impacts, in comperformance objectives for any of the public service.	ysically altered go order to maintain a	vernmental facilities	, the construction	of which
	Fire protection?				\boxtimes
	Police protection?				\boxtimes
	Schools?				\boxtimes
	Parks?				
	Other public facilities?				\boxtimes
XV.	RECREATION				
a)	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				
b)	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				\boxtimes
XVI	.TRANSPORTATION/TRAFFIC - Would the project	ot:			
a)	Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?				
b)	Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?				
c)	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				\boxtimes

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d)	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
e)	Result in inadequate emergency access?		\boxtimes		
f)	Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?				
XVI	I. TRIBAL CULTURAL RESOURCES				
	a) Would the project cause a substantial adverse of Public Resources Code section 21074 as either defined in terms of the size and scope of the lar Native American tribe, and that is:	r a site, feature, pl	ace, cultural landsca	ape that is geograp	ohically
	i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				\boxtimes
ii)	A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?				
XVI	II. UTILITIES AND SERVICE SYSTEMS – Woul	d the project:			
a)	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				\boxtimes
b)	Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
c)	Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				

		Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d)	Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				
e)	Result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				
f)	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?			\boxtimes	
g)	Comply with federal, state, and local statutes and regulations related to solid waste?				\boxtimes
XIX	MANDATORY FINDINGS OF SIGNIFICANCE				
a)	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
b)	Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				\boxtimes
c)	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			\boxtimes	

3.1 Aesthetics

a) Would the project have a substantial adverse effect on a scenic vista?

Option A and Option B

Less than Significant Impact. The project site is within the relatively flat Perris Valley. Views from the valley floor include local hills and mountain ranges. According to the City's General Plan EIR (Section 6.1, Aesthetics):

[B]ecause the bulk of developable land within the City of Perris is located on the flat, broad basin, virtually all future building construction consistent with land use and development standards set forth in [the General Plan] will obstruct views to the foothills from at least some vantage points. The criterion, however, relates to a scenic vista more narrowly defined as a view through an opening, between a row of buildings or trees, or at the end of a vehicular right-of-way. To this end, the east—west and north—south oriented roadway network and streetscapes that define them will frame and preserve scenic vistas from public rights-of-way to the distant horizons and foothills. Owing to the flatness of the basin, the view corridors extend for miles along current and planned roadways preserving scenic vistas from the broad basin to the surrounding foothills (City of Perris 2005).

The project sites are located within an undeveloped, relatively flat area consisting of mostly agricultural uses. The project would result in the construction of a new BPS that would be visible by vehicular, bicycle, and pedestrian traffic travelling along Murrieta Road and Ethanac Road. However, the site is not located within any view corridors and would not obstruct scenic vistas of the surrounding foothills. Therefore, the project would have a less than significant impact on scenic vistas.

b) Would the project substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Option A and Option B

No Impact. According to the City's General Plan EIR, no notable stands of native or mature trees exist in the city (City of Perris 2005). The project site is not located along a state scenic highway. The nearest "Officially Designated" State Scenic highway is State Route 243, located approximately 27 miles west of the nearest proposed project site (Caltrans 2018). Therefore, development of the proposed project would not affect views from a state scenic highway, and no impact would occur.

c) Would the project substantially degrade the existing visual character or quality of the site and its surroundings?

Option A and Option B

Less than Significant Impact. Under the existing condition, the project sites are located within an undeveloped, relatively flat area consisting of mostly agricultural uses. During construction, equipment, vehicles, and materials are expected to be staged within a designated area and used on the project site during project construction. Although construction activities would be visible from adjacent properties and roadways, this would be temporary and would cease upon completion of construction. The project would result in the construction of a small, partially aboveground structure enclosed by an 8-foot-tall split-face concrete block fence in an area where a similar structure already exists. The proposed structure and fence would be designed consistent with design standards and requirements of the GVSP. Therefore, the project would not significantly degrade the existing visual character or quality of the site or its surroundings, and impacts would be less than significant.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Option A and Option B

No Impact. The project would replace an existing BPS. Nighttime construction is not anticipated for the project, and the use of portable construction lighting would not be necessary. No lighting other than low-level security lighting is currently being proposed, similar to what the existing facility currently uses. Therefore, no light or glare impacts would occur as a result of implementing the proposed project.

3.2 Agriculture and Forestry Resources

a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

Option A and Option B

Less than Significant Impact. Based on farmland maps prepared by the California Department of Conservation, the project site is not located in an area designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Both the existing BPS site and the proposed relocation site are located in areas that are identified as Farmland of Local Importance (CDOC 2018a). If the project were constructed on the existing BPS site (Option B), the project would not result in the conversion of any Farmland of Local Importance because the site is already developed. If the project were constructed on the proposed relocation site (Option A), the project would result in the

conversion of 1 acre of Farmland of Local Importance. However, the GVSP EIR acknowledged that the GVSP would eliminate a significant amount of agricultural soils, but concluded that agriculture is not a long-term, economically viable use of the land (City of Perris 1990). Construction of the project would not alter the amount of Farmland that would be converted under the GVSP. Therefore, impacts to conversion of farmland are less than significant.

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

Option A and Option B

No Impact. According the California Department of Conservation's Williamson Act Parcel map for Riverside County, the project sites are not located on or adjacent to any lands under Williamson Act contract. The Riverside County Williamson Act 2015/2016 Map designates the project site and surrounding land as non-Williamson Act Land (CDOC 2016). In addition, both the existing BPS site and proposed relocation site are not zoned for agricultural uses under the GVSP (City of Perris 2017a). As such, implementation of the proposed project would not conflict with existing zoning for agricultural use or land under a Williamson Act contract. Therefore, no impacts associated with agricultural zoning or Williamson Act contracts would occur.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?

Option A and Option B

No Impact. There are no areas within the vicinity of the project sites that are zoned for forest land, timberland, or timberland zoned for Timberland Production (City of Perris 2017a). Therefore, implementation of the project would not conflict with existing zoning for such lands, and no impact would occur.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

Option A and Option B

No Impact. As discussed above in Section 3.2(c), there are no areas within the vicinity of the project sites that are designated as forest land. Accordingly, project construction would not convert forest land to non-forest use, and no impact would occur.

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

Option A and Option B

Less than Significant Impact. As discussed above in Section 3.2(a), the project could potentially result in the conversion of 1 acre of farmland if EMWD implements Option A. However, the project would not alter the amount of agricultural acres that would be converted to non-agricultural use under the GVSP. Furthermore, the GVSP EIR concluded that agriculture is not a long-term, economically viable use of the land (City of Perris 1990). The project would not involve the conversion of farmland beyond what is already anticipated under the GVSP. Additionally, as discussed above in Sections 3.2(c) and 3.2(d), there is no forest land in the vicinity of the project site. Therefore, impacts related to conversion of farmland and forest land are less than significant.

3.3 Air Quality

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

Less than Significant Impact. The proposed project site is located within the South Coast Air Basin (SCAB), which includes the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County, and is within the jurisdictional boundaries of the SCAQMD. The project site is located in the City of Perris, adjacent to Murrieta Road.

SCAQMD administers SCAB's Air Quality Management Plan (AQMP), which is a comprehensive document outlining an air pollution control program for attaining the California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). The most recently adopted AQMP for SCAB is the 2016 AQMP (SCAQMD 2017). The 2016 AQMP focuses on available, proven, and cost-effective alternatives to traditional strategies while seeking to achieve multiple goals in partnership with other entities seeking to promote reductions in greenhouse gases (GHGs) and toxic risk, as well as efficiencies in energy use, transportation, and goods movement (SCAQMD 2017).

The purpose of a consistency finding with regard to the AQMP is to determine if a project is consistent with the assumptions and objectives of the regional air quality plans, and if it would interfere with the region's ability to comply with federal and state air quality standards. The SCAQMD has established criteria for determining consistency with the currently applicable AQMP in Chapter 12, Sections 12.2 and 12.3, of the SCAQMD CEQA Air Quality Handbook. These criteria are as follows (SCAQMD 1993):

• Consistency Criterion No. 1: Whether the project would result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations,

or delay timely attainment of the ambient air quality standards or interim emission reductions in the AQMP.

• Consistency Criterion No. 2: Whether the project would exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

To address the first criterion, project-generated criteria air pollutant emissions have been estimated and analyzed for significance, and are addressed under Section 3.3(b). Detailed results of this analysis are included in Appendix A. As presented in Section 3.3(b), construction and operation of the project would not generate criteria air pollutant emissions that exceed the SCAQMD's thresholds, and it would therefore be consistent with Criterion No. 1.

The second criterion regarding the project's potential to exceed the assumptions in the AQMP or increments based on the year of project buildout and phase is primarily assessed by determining consistency between the project's land use designations and its potential to generate population growth. In general, projects are considered consistent with, and not in conflict with or obstruct implementation of, the AQMP if the growth in socioeconomic factors is consistent with the underlying regional plans used to develop the AQMP (per Consistency Criterion No. 2 of the SCAQMD CEQA Air Quality Handbook). SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment by industry) developed by the Southern California Association of Governments (SCAG) for its Regional Transportation Plan/Sustainable Communities Strategy (SCAG 2016). This document, which is based on general plans for cities and counties in the SCAB, is used by SCAQMD to develop the AQMP emissions inventory (SCAQMD 2017).² The SCAG 2016 Regional Transportation Plan/Sustainable Communities Strategy, and associated Regional Growth Forecast, are generally consistent with the local plans; therefore, the 2016 AQMP is generally consistent with local government plans.

The proposed project consists of the demolition and replacement of the existing Murrieta Road BPS. EMWD is proposing two potential options for replacing the BPS: Option A, construct the replacement BPS at a different site located approximately 3,000 feet north of the existing location, and then demolish the existing BPS; or Option B, demolish the existing BPS and construct the replacement BPS in the same

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Information necessary to produce the emissions inventory for the SCAB is obtained from the SCAQMD and other governmental agencies, including the California Air Resources Board, the California Department of Transportation, and SCAG. Each of these agencies is responsible for collecting data (e.g., industry growth factors, socioeconomic projections, travel activity levels, emission factors, emission speciation profile, and emissions) and developing methodologies (e.g., model and demographic forecast improvements) required to generate a comprehensive emissions inventory. SCAG incorporates these data into its Travel Demand Model for estimating/projecting vehicle miles traveled and driving speeds. SCAG's socioeconomic and transportation activities projections in their 2016 Regional Transportation Plan/Sustainable Communities Strategy are integrated in the 2016 AQMP (SCAQMD 2017).

location. As such, since the proposed project is not anticipated to result in population growth or generate an increase in employment that would conflict with existing employment population projections, it would not conflict with the 2016 AQMP or exceed the assumptions in the 2016 AQMP. Accordingly, the project is consistent with the SCAG Regional Transportation Plan/Sustainable Communities Strategy forecasts used in the SCAQMD AQMP development.

In summary, based on the considerations presented for the two criteria, impacts relating to the project's potential to conflict with or obstruct implementation of the applicable AQMP would be less than significant.

b) Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Less than Significant Impact. A quantitative analysis was conducted to determine whether proposed construction and operational activities might result in emissions of criteria air pollutants that may cause exceedances of the NAAQS or CAAQS, or contribute to existing nonattainment of ambient air quality standards. Criteria air pollutants include ozone (O₃), nitrogen dioxide (NO₂), carbon monoxide (CO), sulfur dioxide, particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM₁₀), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (PM_{2.5}), and lead. Pollutants that are evaluated herein include volatile organic compounds (VOCs) and oxides of nitrogen (NO_x), which are important because they are precursors to O₃, as well as CO, sulfur oxides (SO_x), PM₁₀, and PM_{2.5}.

Regarding NAAQS and CAAQS attainment status,³ the SCAB is designated as a nonattainment area for federal and state O₃ standards, and federal and state PM_{2.5} standards (CARB 2017a; USEPA 2018a). CAB is also designated as a nonattainment area for state PM₁₀ standards; however, it is designated as an attainment area for federal PM₁₀ standards. The SCAB is designated as an attainment area for federal and state CO standards, federal and state NO₂ standards, and state sulfur dioxide standards. Although SCAB has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard.⁴

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An area is designated as in attainment when it is in compliance with the NAAQS and/or the CAAQS. These standards are set by the U.S. Environmental Protection Agency and California Air Resources Board, respectively, for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare. Attainment = meets the standards; attainment/maintenance = achieve the standards after a nonattainment designation; nonattainment = does not meet the standards.

⁴ The phase out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

Construction of the proposed project would result in emissions of criteria air pollutants for which the California Air Resources Board (CARB) and the U.S. Environmental Protection Agency have adopted ambient air quality standards (i.e., the NAAQS and CAAQS). Projects that emit these pollutants have the potential to cause or contribute to violations of these standards. The SCAQMD CEQA Air Quality Handbook, as revised in March 2015, sets forth quantitative emission significance thresholds for criteria air pollutants, which, if exceeded, would indicate the potential for a project to contribute to violations of the NAAQS or CAAQS. Table 3.3-1 lists the SCAQMD Air Quality Significance Thresholds set forth in the SCAQMD CEQA Air Quality Handbook (SCAQMD 2015).

A project would result in a substantial contribution to an existing air quality violation of the NAAQS or CAAQS for O₃, which is a nonattainment pollutant, if the project's construction or operational emissions would exceed the SCAQMD VOC or NO_x thresholds shown in Table 3.3-1. These emission-based thresholds for O₃ precursors are intended to serve as a surrogate for an "ozone significance threshold" (i.e., the potential for adverse O₃ impacts to occur) because O₃ itself is not emitted directly, and the effects of an individual project's emissions of O₃ precursors (VOCs and NO_x) on O₃ levels in ambient air cannot be determined through air quality models or other quantitative methods.

Table 3.3-1. SCAQMD Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds					
Pollutant	Construction	Operation			
VOC	75 lb/day	55 lb/day			
NO _x	100 lb/day	55 lb/day			
CO	550 lb/day	550 lb/day			
SO _x	150 lb/day 150 lb/day				
PM ₁₀	150 lb/day	150 lb/day			
PM _{2.5}	55 lb/day	55 lb/day			
Leada	3 lb/day	3 lb/day			
	Toxic Air Contaminants (TACs) and Odor T	hresholds			
TACs ^b (including carcinogens	Maximum incremental cancer risk ≥ 10 in 1 n	nillion			
and noncarcinogens)	Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million)				
	Chronic and Acute Hazard index ≥ 1.0 (project increment)				
Odor	Project creates an odor nuisance pursuant to	SCAQMD Rule 402			

Source: SCAQMD 2015.

SCAQMD = South Coast Air Quality Management District; Ib/day = pounds per day; VOC = volatile organic compound; $NO_x = oxides of nitrogen$; CO = carbon monoxide; $SO_x = sulfur oxides$; $PM_{10} = coarse particulate matter$; $PM_{2.5} = fine particulate matter$; TAC = toxic air contaminant

The phaseout of leaded gasoline started in 1976. Since gasoline no longer contains lead, the proposed project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

b TACs include carcinogens and non-carcinogens.

The following discussion quantitatively evaluates project-generated construction and operational emissions and impacts that would result from implementation of the proposed project.

Construction Emissions

Proposed construction activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment and dust) and off-site sources (i.e., on-road trucks and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity; the specific type of operation; and, for dust, the prevailing weather conditions. Therefore, an increment of day-to-day variability exists.

As discussed in detail below, implementation of the project would generate criteria air pollutant emissions from off-road equipment, vehicle travel, and material handling. Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, SO_x, PM₁₀, and PM_{2.5}. PM₁₀ and PM_{2.5} emissions would also be generated by material handling for truck loading/unloading activity, on-road vehicles traveling on paved roads, and from brake and tire wear. The project would be required to comply with SCAQMD Rule 403 to control dust emissions generated during any dust-generating activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active dust areas up to three times per day, depending on weather conditions. The project sites (Options A and B) are both relatively small, approximately 1 acre and adjacent to the existing Murrieta Road. As such, the project construction does not have off-road driving for vehicles.

It is anticipated that construction activities would not include application of architectural coatings, such as exterior application/interior paint and other finishes. Accordingly, associated VOC off-gassing emissions from coatings are not estimated herein.

Construction assumptions were developed based on the current best available project information. Construction details were identified on a monthly basis. Although not all of the activities identified in the same month would occur simultaneously, for the purposes of estimating emissions, it was conservatively assumed that all construction activities (i.e., equipment operation, truck trips, worker trips, and material handling) identified within a given month would occur within the same 8-hour day (with equipment operating for a maximum of 8 hours per day). This overall approach to the construction scenario assumptions would result in maximum daily emissions that reflect a level of intensity that is not anticipated to occur. In addition to inherent limitations during any construction process associated with equipment and personnel availability and site constraints, concurrent maximum construction at each active site within each month is not anticipated. Nonetheless, because the level of intensity on any given day is speculative, this analysis assumes the worst-case day for each area within each month.

Construction Schedule

A detailed depiction of expected construction schedules—including information regarding phasing, equipment used during each phase, trucks, and worker vehicles—is provided in Appendix A and summarized in Section 2.6 of this Initial Study/MND.

Emissions Estimation Methodology and Assumptions

Emissions from the construction phase of the project were estimated using the California Emissions Estimator Model (CalEEMod) version 2016.3.2.

A summary of the emissions calculation methodology is provided below for off-road equipment, on-road vehicle travel, and fugitive dust associated with earthwork and material handling.

The construction equipment mix used for estimating the construction emissions of the project is based on information provided by the applicant and is shown in Table 3.3-2. For this analysis, it was assumed that heavy construction equipment would operate 5 days a week during project construction.

Table 3.3-2. Construction Scenario Assumptions – Option A and Option B

		One-Way Vehicle	Trips	Equipment			
Construction Phase	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips (Round Trip)	Equipment Type	Quantity	Usage Hours	
Site Preparation	8	0	0	Graders	1	8	
-Survey/Staking/				Rubber-tired dozers	1	8	
Flagging/				Tractors/loaders/			
Grubbing				backhoes	1	8	
Grading	8	0	Option A -733	Graders	1	8	
			Option B -108	Rubber-tired dozers	1	8	
				Tractors/loaders/ backhoes	1	8	

Table 3.3-2. Construction Scenario Assumptions – Option A and Option B

	One-Way Vehicle Trips			Equipment			
	Average	Average Daily	Total				
Construction	Daily Worker	Vendor Truck	Haul Truck Trips			Usage	
Phase	Trips	Trips	(Round Trip)	Equipment Type	Quantity	Hours	
Building	20	8	0	Air compressors	1	8	
Construction				Cement and mortar			
				mixers	1	8	
				Concrete/industrial			
				saws	1	8	
				Cranes	1	8	
				Forklifts	1	4	
				Generator sets	2	24	
				Rubber-tired loaders	1	8	
				Skid steer loaders	1	8	
				Tractors/loaders/			
				backhoes	1	8	
				Welders	1	8	
Equipment and	20	8	0	Concrete/industrial			
Pipe Installation				saws	1	8	
				Cranes	1	8	
				Forklifts	1	4	
				Generator sets	1	24	
				Rubber-tired loaders	1	8	
				Tractors/loaders/			
				backhoes	1	4	
	40			Welders	2	8	
Paving	10	4	0	Pavers	1	8	
				Paving equipment	1	8	
				Rollers	1	8	
				Tractors/loaders/			
D PP	00	•	40	backhoes	1	8	
Demolition	20	0	10	Air compressors	1	4	
				Concrete/industrial		_	
				saws	1	8	
				Cranes	1	8	
				Excavators	1	8	
				Generator sets	2	24	
				Rubber-tired loaders	1	8	
				Skid steer loaders	1	8	
				Tractors/loaders/			
				backhoes	1	8	

Notes: See Appendix A for details.

For the analysis, it was generally assumed that heavy construction equipment would be operating at the site for approximately 8 hours per day, 5 days per week (22 days per month) during project construction, unless otherwise noted. The project applicant provided construction worker trip estimates. There were hauling trips for the project to account for grading and demolition, including delivery of approximately 12,000 cubic yards of fill material for Option A and approximately 1,200 cubic yards for Option B. The difference in fill material requirements for each option is a result of construction on a greenfield undeveloped site for Option A, compared to the construction on the existing developed BPS site for Option B.

A detailed depiction of the construction schedule—including information regarding subphases and equipment used during each subphase—is included in Appendix A of this report. The information contained in Appendix A was used as CalEEMod model inputs.

Estimated Maximum Daily Emissions

Estimated maximum daily construction criteria air pollutant emissions from all on-site and off-site emission sources is provided in Table 3.3-3 for Option A and Option B.

Table 3.3-3. Estimated Maximum Daily Construction Emissions – Option A and Option B

Option A						
	VOC	NO _x	CO	SO _x	PM ₁₀ ^a	PM _{2.5} ^a
Year	Pounds per Day					
2021	4.60	40.96	42.27	0.08	4.25	2.35
2022	4.21	36.80	41.89	0.08	2.10	1.79
Maximum Daily Emissions	4.60	40.96	42.27	0.08	4.25	2.35
SCAQMD threshold	75	100	550	150	150	55
Threshold exceeded?	No	No	No	No	No	No
		Option	n B			
	VOC	NO _x	CO	SO _x	PM ₁₀ ^a	PM _{2.5} ^a
Year			Pounds p	er Day		
2021	4.54	40.93	41.79	0.08	3.08	2.02
2022	4.15	36.78	41.45	0.08	1.94	1.75
Maximum Daily Emissions	4.54	40.93	41.79	0.08	3.08	2.02
SCAQMD threshold	75	100	550	150	150	55
Threshold exceeded?	No	No	No	No	No	No

Source: SCAQMD 2015.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SCAQMD = South Coast Air Quality Management District. See Appendix A for detailed results.

^a PM₁₀ and PM_{2.5} represents total particulate matter, which includes exhaust, brake wear, tire wear, paved road dust, and fugitive dust from earth moving and material handling. These estimates reflect control of fugitive dust required by SCAQMD Rule 403

As shown in Table 3.3-3, daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, NO_x, CO, SO_x, PM₁₀, or PM_{2.5} during construction for either Option A or Option B. Therefore, construction impacts of the project would be less than significant.

Operational Emissions

Following the completion of construction activities, the proposed project would generate criteria pollutant emissions from the use of the emergency generator. The existing BPS facility does not currently operate an on-site emergency generator. Therefore, both project Options A and B include a new 250-kilowatt diesel emergency generator. CalEEMod was used to model the emissions of the emergency generator based on 1 hour per day and 50 hours per year of operation. CalEEMod default emission factors were used for the proposed generator, corresponding with the install dates.

Table 3.3-4 summarize the daily emissions of criteria pollutants that would be generated by the operation of the facility, Option A or Option B, including intermittent maintenance of the proposed generator and compares these emissions to the SCAQMD thresholds of significance.

Table 3.3-4. Estimated Maximum Daily Operational Emissions – Option A and Option B

	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Source	Pounds per Day					
Emergency Generator Option A and Option B	0.69	1.92	1.75	0.00	0.10	0.10
SCAQMD threshold	55	55	550	150	150	55
Threshold exceeded?	No	No	No	No	No	No

Source: SCAQMD 2015.

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District. See Appendix A for detailed results.

As shown in Table 3.3-4, operational emissions would not exceed the SCAQMD significance thresholds for VOC, NO_x, CO, SO_x, PM₁₀, or PM_{2.5} for either Option A or Option B. Therefore, impacts would be considered less than significant for project operational emissions.

c) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Less than Significant Impact. Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SCAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used in the determination of whether a project's individual emissions would have a cumulatively considerable

contribution on air quality. If a project's emissions would exceed the SCAQMD significance thresholds, it would be considered to have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant (SCAQMD 2003).

As discussed in Section 3.3(b), SCAB has been designated as a federal nonattainment area for O₃ and PM_{2.5} and a state nonattainment area for O₃, PM₁₀, and PM_{2.5}. The nonattainment status is the result of cumulative emissions from various sources of air pollutants and their precursors within SCAB, including motor vehicles, off-road equipment, and commercial and industrial facilities. Proposed construction and operational activities of the project would generate VOC and NO_x emissions (which are precursors to O₃) and emissions of PM₁₀ and PM_{2.5}. However, as indicated in Tables 3.3-3 and 3.3-4, project-generated construction and operational emissions would not exceed the SCAQMD emission-based significance thresholds for VOC, NO_x, PM₁₀, or PM_{2.5}.

Cumulative localized impacts would potentially occur if a construction project were to occur concurrently with another off-site project. Construction schedules for potential future projects near the project site are currently unknown; therefore, potential construction impacts associated with two or more simultaneous projects would be considered speculative. However, future projects would be subject to CEQA and would require air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would be reduced through implementation of control measures required by SCAQMD. Cumulative PM₁₀ and PM_{2.5} emissions would be reduced because all future projects would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all construction sites in SCAQMD.

Therefore, the project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants, and impacts would be less than significant.

d) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less than Significant Impact. Project construction activities would result in temporary sources of air pollutant emissions associated with construction equipment exhaust and material handling activities. The following sections discusses the project's impacts on sensitive receptors.

Sensitive Receptors

Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and

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The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145).

people with cardiovascular and chronic respiratory diseases. According to SCAQMD, sensitive receptors include residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993).

As described in Section 2.6, EMWD is proposing two potential options for replacing the Murrieta Road BPS: Option A, construct the replacement BPS at a different site located approximately 3,000 feet north of the existing location, and then demolish the existing BPS; or Option B, demolish the existing BPS and construct the replacement BPS in the same location. The project area is located in a rural part of the City that has historically been surrounded on all sides by agricultural uses. However, the GVSP has designated the area surrounding the existing BPS site as Single Family (5000-6000 SF) and area surrounding the proposed Option A site as Single Family (5000-6000 SF) and Park (City of Perris 2017a). The areas north, east, and west of the existing BPS are anticipated to undergo residential development in the near future as part of Phase I of the GVSP per TTM 36988. The nearest sensitive receptors to the proposed project are residences located south of the project site, 1,012 feet from the existing BPS (Option B), and 3,748 feet south of the Option A site. As such, residential land uses are located in close proximity to the proposed project sites.

Localized Significance Thresholds

The SCAQMD recommends a localized significance threshold (LST) analysis to evaluate localized air quality impacts to sensitive receptors in the immediate vicinity of the project site as a result of construction activities. The impacts were analyzed using methods consistent with those in the SCAQMD's *Final Localized Significance Threshold Methodology* (SCAQMD 2009). The project is located within the Source-Receptor Area 24 (Perris Valley). This analysis applies the SCAQMD LST values for a 1-acre site within Source-Receptor Area 24 with a receptor distance of 50 meters (164 feet), which is conservative.

Project construction activities would result in temporary sources of on-site criteria air pollutant emissions associated with construction equipment exhaust and material handling activities. According to the *Final Localized Significance Threshold Methodology*, "off-site mobile emissions from the project should not be included in the emissions compared to the LSTs" (SCAQMD 2009). Trucks and worker trips associated with project construction are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Therefore, off-site emissions from trucks and worker vehicle trips are not included in the LST analysis. The maximum daily on-site construction emissions generated during construction of the proposed project in each option are presented in Table 3.3-5 and compared to the SCAQMD localized significance criteria for Source-Receptor Area 24 to determine whether project-generated on-site construction emissions would result in potential LST impacts.

Table 3.3-5. Construction Localized Significance Thresholds Analysis

	NO ₂	CO	PM ₁₀	PM _{2.5}			
Scenario	Pounds per Day (On-Site) ^a						
Option A	40.12	41.17	3.35	2.08			
Option B	40.12	41.17	2.96	1.96			
Maximum Daily On-site Emissions	40.12	41.17	3.35	2.08			
SCAQMD LST Criteria	148	887	12	4			
Threshold Exceeded?	No	No	No	No			

Source: SCAQMD 2009.

Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.

See Appendix A for detailed results.

As shown in Table 3.3-5, proposed construction activities would not generate emissions in excess of site-specific LSTs; therefore, localized project construction impacts would be less than significant.

CO Hotspots

Traffic-congested roadways and intersections have the potential to generate localized high levels of CO. Localized areas where ambient concentrations exceed federal and/or state standards for CO are termed CO "hotspots." CO transport is extremely limited and disperses rapidly with distance from the source. Under certain extreme meteorological conditions, however, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors. Typically, high CO concentrations are associated with severely congested intersections operating at an unacceptable level of service (level of service E or worse is unacceptable). Projects contributing to adverse traffic impacts may result in the formation of a CO hotspot. Additional analysis of CO hotspot impacts would be conducted if a project would result in a significant impact or contribute to an adverse traffic impact at a signalized intersection that would potentially subject sensitive receptors to CO hotspots.

The Code of Federal Regulations Procedures for Determining Localized CO, PM₁₀, and PM_{2.5} Concentrations (hot-spot analysis), states that "CO, PM₁₀, and PM_{2.5} hot-spot analyses are not required to consider construction-related activities, which cause temporary increases in emissions. Each site which is affected by construction-related activities shall be considered separately, using established 'Guideline' methods. Temporary increases are defined as those which occur only during the construction phase and last five years or less at any individual site" (40 CFR 93.123(c)(5)). While project construction would involve on-road vehicle trips from trucks and workers during construction, construction activities would last approximately 14 months and thus, are considered temporary. As a result, the proposed construction activities would not require a project-level construction hotspot analysis. Additionally, as a replacement project, the proposed project would not result in additional

Localized significance thresholds are shown for a 1-acre disturbed area corresponding to a distance to a sensitive receptor of 50 meters in Source-Receptor Area 24 (Perris Valley).

operational vehicular trips associated with routine maintenance, and an operational CO hotspot evaluation is not required.

Accordingly, the proposed project would not generate traffic that would contribute to potential adverse traffic impacts that may result in the formation of CO hotspots. In addition, due to continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SCAB is steadily decreasing. Based on these considerations, the proposed project would result in a less than significant impact to air quality with regard to potential CO hotspots.

Toxic Air Contaminants

Toxic air contaminants (TACs) are defined as substances that may cause or contribute to an increase in deaths or in serious illness, or that may pose a present or potential hazard to human health. The nearest sensitive receptors to the proposed project are residences located south of the project site, approximately 1,000 feet from the existing BPS (Option B), and approximately 4,000 feet south of the Option A site. Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SCAQMD recommends an incremental cancer risk threshold of 10 in 1 million. "Incremental cancer risk" is the net increased likelihood that a person continuously exposed to concentrations of TACs resulting from a project over a 9-year, 30-year, and 70-year exposure period will contract cancer based on the use of standard Office of Environmental Health Hazard Assessment risk-assessment methodology (OEHHA 2015). In addition, some TACs have non-carcinogenic effects. The SCAQMD recommends a Hazard Index of 1 or more for acute (short-term) and chronic (long-term) effects. TACs that would potentially be emitted during construction activities associated with development of the proposed project would be diesel particulate matter.

Diesel particulate matter emissions would be emitted from heavy equipment operations and heavy-duty trucks. Heavy-duty construction equipment is subject to a CARB Airborne Toxics Control Measure for in-use diesel construction equipment to reduce diesel particulate emissions. As described for the LST analysis and shown in Table 3.3-5, PM₁₀ (representative of diesel particulate matter) exposure would be minimal. According to the Office of Environmental Health Hazard Assessment, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period for the maximally exposed individual resident; however, such assessments should be limited to the period/duration of activities associated with the project. Thus, the duration of the proposed construction activities would only constitute a small percentage of the total 30-year exposure period. The construction period for the proposed project would total approximately 14 months, after

Non-cancer adverse health risks are measured against a hazard index, which is defined as the ratio of the predicted incremental exposure concentrations of the various non-carcinogens from the project to published reference exposure levels that can cause adverse health effects.

which construction-related TAC emissions would cease. Due to this relatively short period of exposure and minimal particulate emissions on site, TACs generated during construction would not result in concentrations causing significant health risks.

Operation of the proposed project would not result in any increase in diesel vehicles (i.e., delivery trucks) over existing baseline conditions. Operation of the facility does include intermittent maintenance and testing of the diesel emergency generator limited to 50 hours per year. SCAQMD Rule 1470 limits emergency generators to 50 hours per year for maintenance and testing. Due to this relatively short period of exposure, small generator engine size of 250 kilowatts, and minimal particulate emissions on site, TACs generated during operation would not result in concentrations causing significant health risks.

Overall, the project would not result in substantial TAC exposure to sensitive receptors in the vicinity of the proposed project, and impacts would be less than significant.

Health Impacts of Criteria Air Pollutants

Construction of the proposed project would generate criteria air pollutant emissions; however, the project would not exceed the SCAQMD mass-emission thresholds.

SCAB is designated as nonattainment for O₃ for the NAAQS and CAAQS. Thus, existing O₃ levels in the SCAB are at unhealthy levels during certain periods. The health effects associated with O₃ are generally result in reduced lung function. Because the proposed project would not involve construction and operational activities that would result in O₃ precursor emissions (VOC or NO_x emissions) that would exceed the SCAQMD thresholds, as shown in Tables 3.3-3 and 3.3-4, the project is not anticipated to substantially contribute to regional O₃ concentrations and its associated health impacts.

In addition to O₃, NO_x emissions contribute to potential exceedances of the NAAQS and CAAQS for NO₂. Exposure to NO₂ and NO_x can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections. Project construction and operations would not exceed the SCAQMD NO_x threshold, as shown in Tables 3.3-3 and 3.3-4, and existing ambient NO₂ concentrations are below the NAAQS and CAAQS. Thus, proposed project construction and operation is not expected to result in exceedances of the NO₂ standards or contribute to associated health effects.

CO tends to be a localized impact associated with congested intersections. In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions. CO hotspots were discussed previously as a less than significant impact. Thus, the proposed project's CO emissions would not contribute to the health effects associated with this pollutant.

SCAB is designated as nonattainment for PM₁₀ under the CAAQS and nonattainment for PM_{2.5} under the NAAQS and CAAQS. Particulate matter contains microscopic solids or liquid droplets that are so small that they can get deep into the lungs and cause serious health problems. Particulate matter exposure has been linked to a variety of problems, including premature death in people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms such as irritation of the airways, coughing, or difficulty breathing (USEPA 2018b). As with O₃ and NO_x, and as shown in Tables 3.3-3 and 3.3-4, the proposed project would not generate emissions of PM₁₀ or PM_{2.5} that would exceed SCAQMD's thresholds. Accordingly, the proposed project's PM₁₀ and PM_{2.5} emissions are not expected to cause any increase in related regional health effects for this pollutant.

In summary, the proposed project would not result in a potentially significant contribution to regional concentrations of non-attainment pollutants, and would not result in a significant contribution to the adverse health impacts associated with those pollutants. Impacts would be less than significant.

e) Would the project create objectionable odors affecting a substantial number of people?

Less than Significant Impact. The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying, cause distress among the public, and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the proposed project. Odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. Such odors are temporary, dissipate relatively rapidly with distance, and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be considered less than significant.

Land uses and industrial operations typically associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. Although the project will deliver wastewater, it will not increase odors compared to the existing BPS station. Therefore, project operations would result in an odor impact that would be less than significant.

3.4 Biological Resources

Dudek biologist Anna Cassidy conducted a biological reconnaissance at the proposed relocation site and the existing BPS site on July 31, 2018. The results of the biological reconnaissance are summarized in this section. The biological reconnaissance was conducted by walking the proposed relocation site (Option A) and the existing BPS site (Option B), plus a 100-foot buffer around both Option A and Option B that comprised the study areas for the biological reconnaissance. All plant and wildlife species observed were recorded, and a general characterization of the existing vegetation was documented in order to determine the potential for the habitat within the study areas to support special-status plant and wildlife species. A complete list of plant and wildlife species observed and detected during the biological reconnaissance is included in Appendix B. Any observations or auditory detection of special-status species, or other sensitive biological resources, were noted and mapped using Global Positioning System (GPS). Although the biological reconnaissance did not include a formal wetland delineation, an assessment of potentially jurisdictional waters and wetlands was conducted. Additionally, binoculars were used in order to assist in species identification and survey adjacent off-site areas.

The proposed relocation site and existing BPS site are located within a substantially disturbed area within the City of Perris, Riverside County, California. The proposed relocation site occurs within an approximate 1.0-acre area located immediately west of Murrieta Road, on land characterized as tilled agricultural fields. The existing BPS site occurs within an approximate 0.58-acre area located immediately west of Murrieta Road, approximately 3,000 feet south of the proposed relocation site. The proposed relocation site and immediately surrounding areas have been regularly disturbed for agricultural use since the 1960s. Both the proposed relocation site and existing BPS site are relatively flat, with elevations of approximately 1,415 feet AMSL and 1,411 feet AMSL, respectively, and lack any noteworthy topographic features as mapped on the Perris, California, U.S. Geological Survey 7.5-minute topographic quadrangle map. Land use on and immediately surrounding both sites consists of agricultural land, with no buildings or structures. The location of the existing BPS is developed with the pumping station and concrete surfaces, surrounded by a windrow of eucalyptus trees. There are recent signs of tilling along the boundary of the agricultural fields, adjacent to Murrieta Road; however, the majority of the agricultural land within and immediately adjacent to the project site has been left fallow and is now dominated by non-native Russian thistle (Salsola australis).

a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Option A and Option B

Special-Status Plants

Less than Significant with Mitigation Incorporated. The California Native Plant Society Inventory of Endangered and Rare Plants and the California Natural Diversity Database list 42 special-status plant species documented within the study areas (CNPS 2018). Of these species, 35 have no potential to occur within the study areas due to the lack of suitable habitat, elevation limits, and/or lack of recorded occurrences within the vicinity of the study areas. Although the study areas are substantially disturbed, seven special-status plants known to occur in the region and previously documented in the vicinity have a potential to occur within the study areas. Of these seven species, only two have a moderate potential to occur on the proposed relocation site as listed in Table 3.4-1: San Jacinto Valley crownscale (Atriplex coronata var. notatior) and smooth tarplant (Centromadia pungens ssp. laevis). The five remaining species were determined to have a low potential to occur and are omitted from further discussion: spreading navarretia (Navarretia fossalis), thread-leaved brodiaea (Brodiaea filifolia), Munz's onion (Allium munzii), San Diego ambrosia (Ambrosia pumila), and many-stemmed dudleya (Dudleya multicaulis). The complete list of special-status plant species evaluated for their potential to occur, as well as their federal/state status and California Rare Plant Rank, is included in Appendix B.

Table 3.4-1. Special-Status Plants with a Moderate Potential to Occur within the Study Areas

Common Name	Scientific Name	Federal/State Status	CRPR	Primary Habitat Associations/Life Form/Blooming Period	Status within Study Areas or Potential to Occur
San Jacinto Valley crownscale	Atriplex coronata var. notatior	FE/None	1B.1	Playas, Valley and foothill grassland (mesic), Vernal pools./Annual herb/Apr.– Aug.	Moderate potential to occur. Species has been recorded within 100 feet of the proposed relocation site. It was not observed during the survey, and habitat is significantly disturbed.

Table 3.4-1. Special-Status Plants with a Moderate Potential to Occur within the Study Areas

Common Name	Scientific Name	Federal/State Status	CRPR	Primary Habitat Associations/Life Form/Blooming Period	Status within Study Areas or Potential to Occur
smooth tarplant	Centromadia pungens ssp. laevis	None/None	1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland./Annual herb/Apr.—Sep.	Moderate potential to occur. Smooth tarplant has been recorded within 100 feet from the proposed relocation site. It was not observed during the site survey, and habitat is significantly disturbed.

Status Legend:

Federal

FE: federally endangered

State

None: No state status.

California Rare Plant Rank (CRPR)

1B: Plants rare, threatened, or endangered in California and elsewhere

Threat Rank:

0.1 - Seriously threatened in California (more than 80% of occurrences threatened/high degree and immediacy of threat)

Previous occurrences of San Jacinto Valley crownscale and smooth tarplant have been recorded in the 2000s within 100 feet from the proposed relocation site (CDFW 2018). San Jacinto valley crownscale is a federally endangered plant and California Rare Plant Rank 1B.1 plant that occurs within alkaline areas in the San Jacinto River Valley with grassland habitats and vernal pools. Smooth tarplant is a California Rare Plant Rank 1B.1 plant that occurs within disturbed alkaline areas with grassland habitats. Both species were previously surveyed for by Glenn Lukos Associates in 2004/2005, and again in 2014/2015, for the GVSP that encompasses the proposed relocation site (GLA 2016). Neither species were observed during these focused survey efforts, reducing the potential for either species to occur on the proposed relocation site. However, because these species were previously documented adjacent to the proposed relocation site and seeds may still be present in the soil, there is still a potential for both species to occur on the proposed relocation site and could be impacted during construction if EMWD implements Option A.

Implementation of mitigation measure MM-BIO-1 would reduce potential Option-A-related impacts to special-status plant species to a less than significant level.

Given its current condition and lack of species present during the reconnaissance, it was determined that the existing BPS facility does not have the potential to support special-status plant species. Thus, Option B would have no impacts on special-status plant species and no mitigation would be required.

Special-Status Wildlife

Less than Significant with Mitigation Incorporated. The CNDDB lists 52 special-status wildlife species documented within the study area. Forty-three of these species have no potential to occur within the study areas due to the lack of suitable habitat, limited distribution, and/or amount of disturbance within the study areas. Four special-status wildlife species have a moderate potential to occur within the study areas, as listed in Table 3.4-2. These species include burrowing owl (Athene cunicularia), California horned lark (Eremophila alpestris actia), loggerhead shrike (Lanius ludovicianus), and San Diego black-tailed jackrabbit (Lepus californicus bennettii). The five remaining species were determined to have a low potential to occur and are omitted from further discussion: San Bernardino kangaroo rat (Dipodomys merriami parvus), Stephens' kangaroo rat (Dipodomys stephensi), American badger (Taxidea taxus), vernal pool fairy shrimp (Branchinecta lynchi), and Riverside fairy shrimp (Streptocephalus woottoni). The study area lacks suitable habitat to support these species such as suitable vegetation communities, sandy soils, or areas that support ponding water.

Table 3.4-2. Special-Status Wildlife Species with a Moderate Potential to Occur within the Study Areas

Common Name	Scientific Name	Federal/State Status	Habitat Associations	Status within study area or Potential to Occur
Burrowing owl	Athene cunicularia	BCC/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Moderate potential to occur on the proposed relocation site. The surrounding habitat is suitable to support burrowing owl. However, the site lacks suitable small mammal burrows for owls to nest within, reducing the potential for this species to occur on the proposed relocation site.
California horned lark	Eremophila alpestris actia	None/WL	Nests and forages in grasslands, disturbed lands, agriculture, and beaches; nests in alpine fell fields of the Sierra Nevada	Moderate potential to forage within the disturbed habitat and agricultural land adjacent to the proposed relocation site.
Loggerhead shrike	Lanius Iudovicianus	BCC/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches	Moderate potential to occur within street trees adjacent to the proposed relocation site. Could also nest within the windrow of trees around the existing BPS site.

Table 3.4-2. Special-Status Wildlife Species with a Moderate Potential to Occur within the Study Areas

Common Name	Scientific Name	Federal/State Status	Habitat Associations	Status within study area or Potential to Occur
San Diego black- tailed jackrabbit	Lepus californicus bennettii	None/SSC	Arid habitats with open ground; grasslands, coastal scrub, agriculture, disturbed areas, and rangelands	Moderate potential to occur within the open agricultural fields adjacent to the proposed relocation site.

Status Legend:

Federal

BCC = U.S. Fish and Wildlife Service Bird of Conservation Concern

State

SSC = California Department of Fish and Wildlife (CDFW) Species of Special Concern

WL = Watch List (CDFW)

Burrowing Owl

The burrowing owl is a California Species of Special Concern (SSC) that is also afforded additional protection by the California Department of Fish and Wildlife (CDFW). Burrowing owl occurs within grassland and disturbed habitat with an abundance of small mammal burrows for nesting. This species also inhabits locations that are on the edge of open land with low-growing vegetation and perch locations for foraging. Suitable habitat for this species occurs on the proposed relocation site and immediately adjacent to both the proposed relocation site and existing BPS site. However, no suitable small mammal burrows, particularly those belonging to the California ground squirrel (*Otospermophilus beecheyi*), were observed within the study area during the biological reconnaissance. Additionally, this species was not observed within the study area during focused burrowing owl surveys conducted for the GVSP by GLA in 2015 and 2016 (GLA 2016). Therefore, the potential for this species to occur within the study areas is reduced; however, due to the continued presence of suitable habitat on the proposed relocation site, the potential for burrowing owl to move onto the proposed relocation site cannot be ruled out. Therefore, if EMWD implements Option A, the proposed project may result in a significant impact to this species if it is determined that burrowing owl occupies the proposed relocation site prior to construction.

California Horned Lark and Loggerhead Shrike

California horned lark is a Watch List species in California that was observed within the boundary of the GVSP during surveys conducted by GLA in 2014 (GLA 2016). Loggerhead shrike is listed as a Bird of Conservation Concern by the U.S. Fish and Wildlife Service, and an SSC in California. Loggerhead shrike was not observed within the study areas during previous surveys or during the 2018 biological reconnaissance. However, both California horned lark and loggerhead shrike may forage within and adjacent to the both the proposed relocation site and existing BPS site, and may nest within the windrow of trees surrounding the existing BPS site. Although neither species was observed during the biological reconnaissance, both species may occur on both the proposed relocation site and

existing BPS site prior to the start of construction, and may be significantly impacted during construction under both Option A and Option B.

San Diego Black-Tailed Jackrabbit

San Diego black-tailed jackrabbit is an SSC that occurs within arid areas characterized by grasslands, coastal scrub, disturbed, and agricultural areas. This species may occur within the agricultural land on and adjacent to the proposed relocation site. This species was not observed during previous surveys in the area or during the 2018 biological reconnaissance. There is a potential for the project to result in a significant impact to this species if it is found on site during construction activities.

Given the possibility for special-status wildlife to occur on both the proposed relocation site and existing BPS site, both Option A and Option B could potentially result in impacts to special status wildlife. Implementation of mitigation measure MM-BIO-2 would reduce potential project-related impacts to special-status wildlife species to a less than significant level.

Nesting Birds

The project site also contains moderately suitable habitat to support nesting birds protected by the Migratory Bird Treaty Act and nests protected by California Fish and Game Code Section 3500. The disturbed habitat and agricultural land located on and adjacent to the proposed relocation site provides suitable habitat for ground-nesting bird species. The windrow of trees surrounding the existing BPS site also provides suitable nesting habitat for tree-nesting species. Additionally, the adjacent undeveloped agricultural land provides suitable foraging habitat for a number of bird and raptor species known to occur in the region. Therefore, construction of the proposed project may result in a significant impact to nesting birds protected by the Migratory Bird Treaty Act and California Fish and Game Code, if construction activities occur during the general nesting season of February through August.

Implementation of mitigation measure MM-BIO-3 would reduce all potential project-related impacts to nesting birds to a less than significant level.

Mitigation Measures

Option A

MM-BIO-1

If Eastern Municipal Water District (EMWD) implements Option A, a preconstruction clearance survey shall be conducted prior to the start of construction in order to determine the presence/absence of special-status plants such as San Jacinto Valley crownscale and smooth tarplant. The entire project footprint, including temporary and permanent impact areas, shall be surveyed on foot by a qualified botanist to search for the presence of any special-status plant species. The survey will be conducted at a time when both species are in bloom and readily identifiable. Reference sites may also be visited to determine if the species is in bloom prior to the survey. If no special-status plant species are found, construction may commence without further mitigation. However, if special-status plants are found during the preconstruction survey, additional mitigation such as avoidance, translocation, and/or consultation with the appropriate regulatory agency will be required.

Option A and Option B

MM-BIO-2

Within 1 week prior to the start of construction, a pre-construction survey shall be conducted to determine the presence/absence of any special-status wildlife species, such as burrowing owl, California horned lark, loggerhead shrike, and San Diego black-tailed jackrabbit. A qualified biologist will walk the entire project site, plus a 500-foot buffer, searching for any sign of the presence of special-status wildlife species. Special-status wildlife species will be determined to be present if any individuals, feathers, pellets, or nests are observed. If no special-status wildlife species are found, construction may commence without further mitigation. However, if special-status wildlife are found during the pre-construction survey, additional mitigation such as avoidance, translocation, and/or consultation with the appropriate regulatory agency will be required.

Mitigation for species such as burrowing owl will be required to adhere to the guidelines in the 2012 California Department of Fish and Wildlife (CDFW) Staff Report on Burrowing Owl Mitigation. This report outlines the preparation of a relocation plan and habitat mitigation plan with CDFW approval, as well as purchasing mitigation credits, land acquisition, or conservation easement to offset impacts to the loss of suitable habitat for burrowing owl. If species such as loggerhead shrike, California horned lark, or San Diego black-tailed jackrabbit are found, additional measures such as avoiding the breeding season, construction fencing, and/or construction monitoring will be required.

MM-BIO-3

In order to avoid potential impacts to nesting birds, construction of the proposed project should avoid the general breeding season of February through August, when birds are nesting and most vulnerable. If the breeding season cannot be avoided, a preconstruction clearance survey shall be conducted within 1 week prior to the start of construction activities to determine the presence/absence of any nesting birds on the project site and a surrounding 500-foot buffer. All suitable nesting habitat, including ground-nesting habitat, will be surveyed with binoculars by a qualified biologist to determine presence/absence. If an active nest is found, a suitable buffer will be

established around the nest, based on species sensitivity to disturbance and proximity to construction areas, as determined by the biologist. Construction monitoring may also be required to ensure no take of the nest occurs. The buffer will remain in place for the duration of construction activities until the nestlings have fledged and a biologist can confirm the nest is no longer active.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Option A and Option B

Less than Significant Impact. The proposed relocation site occurs within agricultural land that has been recently tilled, and has a history of decades of regular disturbance. No drainage features, including agricultural ditches or irrigation canals, were observed on the project site that could support riparian habitat. An irrigation channel occurs approximately 600 feet to the south, well outside the study areas, that conveys water from the San Jacinto River but does not contain any sensitive habitats. Any undeveloped areas within or adjacent to the study areas have been significantly disturbed from previous activities and could not support any sensitive natural communities. Additionally, no U.S. Fish and Wildlife Service-designated Critical Habitat for federally listed plants or wildlife overlap with the proposed relocation site, and the nearest Critical Habitat is mapped approximately 250 feet to the west for spreading navarretia, and approximately 3,500 feet to the north for thread-leaved broadiaea. Both U.S. Fish and Wildlife Service-designated Critical Habitat areas are well outside the study areas. Additionally, the existing BPS site is developed and consists mostly of impervious surfaces. Therefore, the proposed project would not impact any riparian habitat, sensitive natural communities, or any designated Critical Habitat mapped in the region. Impacts would be less than significant.

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

Option A and Option B

Less than Significant Impact. There are no drainage features located on or immediately adjacent to the proposed relocation site or existing BPS site that could be considered potentially subject to regulatory agency jurisdiction under Section 404 and 401 of the Clean Water Act, and Section 1600 of California Fish and Game Code. The proposed relocation site and immediate surroundings do not contain suitable soils or hydrology to support federally protected wetlands. Additionally, no wetland indicator species were observed during the biological reconnaissance, and the area has been used for

agricultural purposes for decades, which has significantly altered the natural soil composition and hydrology within and immediately adjacent to the proposed relocation site.

An irrigation channel is located to the south of the existing BPS site that connects to the San Jacinto River to the west. This riverine feature is located approximately 600 feet to the south of the existing BPS site and would not be impacted by either Option A or Option B. Therefore, construction of the proposed project would not impact any waters or wetlands potentially subject to state and federal agency jurisdiction. Impacts would be less than significant, and no mitigation measures are required.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Option A and Option B

Less than Significant Impact. The proposed relocation site is located on the eastern edge of an agricultural field that has been subject to decades of disturbance, but lacks any development that currently impedes the movement of wildlife through the site towards regional corridors such as the San Jacinto River to the west. Currently local small to medium-sized wildlife, particularly mammal species, are free to move through the proposed relocation site and across adjacent land due to the lack of development surrounding the site. However, the proposed relocation site and existing BPS site do not occur within a local corridor or linkage between two larger stands of native habitat, and no mapped Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Linkages or Corridors occur in the vicinity of the either site. Additionally, neither Option A nor Option B would create a significant hindrance to wildlife species that could be moving through the local area. The relatively small size of the project, including both construction and operation, would not result in a significant impact to wildlife corridors or nursery sites. Therefore, both options would result in less than significant impacts to wildlife corridors or nursery sites.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Option A and Option B

Less than Significant Impact. The proposed project is located within the City of Perris, and therefore, is subject to Chapter 19.71, Urban Forestry Establishment and Care, of the City's Municipal Code, specifically Section 19.71.050 regarding Tree Protection. Tree protection within the City limits extends generally to all public trees and some private trees that contribute to the City's urban canopy cover, and are not hazardous or nuisance trees (City of Perris 2018). Protected public trees include heritage and specimen trees located on streets and city parks, historic trees on City Hall, and public trees on public property or easements. Protected privately owned trees include trees that shade backyards, monument trees, trees that provide screening or buffers, aesthetic or shade trees in public space, or trees on

environmentally sensitive lands. Any trimming or removal of a tree protected in Section 19.71.050 of the Municipal Code will require a permit from the public works director.

No trees are located on the existing BPS site that would be considered protected trees by the City, and no trees are located on the proposed relocation site. Additionally, the proposed project does not include removal of any trees from the existing BPS site. Therefore, both options would result in less than significant impacts on local policies and ordinances protecting biological resources.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Option A and Option B

Less than Significant Impact. The proposed relocation site and existing BPS site are located within the boundaries of the Western Riverside County MSHCP. Specifically, the proposed relocation site occurs within a portion of APN 330-140-017, which is mapped within the San Jacinto Area Plan. According to the Regional Conservation Authority MSHCP Information App, the proposed relocation site is not located within a Cell Group or Criteria Cell (RCA 2017). In addition, as stated in Section 3.4(d), no MSHCP-designated Corridors or Linkages are mapped within or in the vicinity of the study area. Furthermore, the study area does not contain any riparian/riverine areas, and the project would incorporate standard best management practices (BMPs) through its stormwater pollution prevention plan (SWPPP) requirements that would limit any potential impact to the urban/wildlands interface.

The proposed relocation site and existing BPS occur within a mandatory habitat assessment area for burrowing owl, and several Narrow Endemic Plants including: Munz's onion, San Diego ambrosia, many-stemmed dudleya, spreading navarretia, California Orcutt grass (*Orcuttia californica*), and Wright's trichocoronis (*Trichocoronis wrightii* var. wrightii). Due to the lack of suitable habitat on the study area to support these species, focused surveys were not conducted. However, as described in Section 3.4(a), there is still a potential for burrowing owl, San Jacinto Valley crownscale, and smooth tarplant to occur on the proposed relocation site. Implementation of mitigation measures MM-BIO-1 and MM-BIO-2 will reduce potential impacts to MSHCP covered species to a less than significant level.

Lastly, the project applicant, EMWD, is not a permittee to the MSHCP. EMWD is also the lead agency for this project, and the project is not requiring approval from a signatory to the MSHCP. Therefore, the project is not required to demonstrate project compliance with the goals and provisions outlined in the MSHCP regarding impacts to biological resources. However, the project must still demonstrate that implementation will not prevent the Regional Conservation Authority from implementing the conservation goals and objectives of the MSHCP. As currently designed, the proposed project would not impact the conservation goals and requirements of the MSHCP, particularly with implementation

of mitigation measures MM-BIO-1 through MM-BIO-3 to reduce potential impacts to special-status species covered under the MSHCP as evaluated in Section 3.4(a). Therefore, the project would have a less than significant impact on the provisions of an adopted habitat conservation plan.

3.5 Cultural Resources

The following analysis is based on the Negative Cultural Resources Letter Report for the *Proposed Murrieta* Road Booster Pump Station (BPS) Relocation Project, City of Perris, California, prepared by Dudek in August 2018, and included as Appendix C.

a) Would the project cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?

Option A and Option B

No Impact. For a building to be considered historic, it must be at least 50 years old so sufficient time has passed to determine whether the events or characteristics of the building will have a contribution of history (OHP 2015). Dudek consulted historic topographic maps (earliest available from 1954) and aerial photographs to understand development of the project site and surrounding properties. Historic aerial photographs and maps of the project area were available for 1966, 1967, 1978, 1997, 2002, 2005, 2009, 2010, 2012 and 2014 (NETR 2018). The historic photographs and topographic maps reveal that the area surrounding the project sites has been utilized for agricultural purposes since 1966. No historic structures are located within the project area. Given the historical background of the station, the existing BPS station would not be eligible for listing in the National Register of Historic Place or California Register of Historical Resources. Thus, none of the structures on the project site would be considered historical resources as defined by CEQA, and no impacts would occur.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Option A and Option B

Less than Significant Impact. The Cultural Resources Inventory Report (Appendix C) included a review of California Historical Resources Information System records covering the proposed project area plus a 1-mile radius conducted in August 2018 at the Eastern Information Center and a pedestrian survey of the project area for cultural resources. The report also included a search of the Native American Heritage Commission's Sacred Lands File. No archaeological resources were identified within the project area as a result of the California Historical Resources Information System records search, pedestrian survey, or Native American Heritage Commission's Sacred Lands File search. Additionally, both the proposed relocation site and existing site are heavily disturbed. The majority of the existing BPS site is developed, and the proposed relocation site has been tilled for agricultural

purposes for decades. Due to the absence of archaeological resources within the project area and the disturbed characteristic of the project area, the likelihood of this project unearthing previously unknown archaeological deposits or resources is very low.

However, it is always possible that intact archaeological deposits are present at subsurface levels. In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find and determine whether or not additional study is warranted. If the discovery is clearly not significant (e.g., an isolate), the archaeologist may simply record the find and allow work to continue. If the discovery proves potentially significant under CEQA, additional work such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.

Given that the likelihood of the project unearthing previously unknown archaeological deposits or resources is very low, impacts to archaeological resources are considered less than significant.

c) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Option A and Option B

Less than Significant Impact with Mitigation Incorporated. The proposed project is located within the northernmost Peninsular Ranges geomorphic province (Norris and Webb 1990; CGS 2002). This geomorphic province is characterized by northwest trending mountain ranges and valleys that extend over 900 miles from the tip of the Baja Peninsula to the Transverse Ranges (i.e., the San Bernardino and San Gabriel Mountains in Southern California). Regionally, the Peninsular Ranges are bounded to the east by the Colorado Desert and the west by the continental shelf and offshore islands (Santa Catalina, Santa Barbara, San Nicholas, and San Clemente) (Norris and Webb 1990; CGS 2002). Regional mountain ranges in the Peninsular Ranges geomorphic province include the Santa Ana, San Jacinto, and Santa Rosa Mountains. Geologically, these mountains are dominated by Mesozoic, plutonic igneous, and metamorphic rocks that are part of the Peninsular Ranges batholith (Southern California batholith) (Jahns 1954).

More specifically, the proposed project is located within the Perris Structural Block, between the Elsinore and San Jacinto fault zones (Kennedy 1977). The Elsinore and San Jacinto fault zones are part of the greater San Andreas fault system, which is characterized by numerous strike-slip faults (Biehler et al. 1964). The Elsinore fault zone extends from the city of Corona in Riverside, southeast approximately 124 miles to just beyond the international border with Mexico (Kennedy 1977). According to surficial geological mapping by Dibblee and Minch (2003) at a scale of 1:24,000, the

proposed project is underlain by Quaternary alluvium (map unit Qa) that is Holocene (<12,000 years ago) age. Similarly, surficial geological mapping by Morton (2003) at a scale of 1:24,000, indicates that the proposed project area is underlain by late Holocene (4,200 years ago – present) active valley deposits (map unit Qv_{sc}) that are rich in silts and clays. Sand-rich old alluvial fan deposits (map unit Qof_a) that are considered middle to late Pleistocene (~ 780,000 years ago – 12, 000 years ago) are mapped by Morton (2003) approximately 200 meters to the southeast of the proposed project area.

Dudek crossed-trained Archaeologist/Paleontologist Jessica Colston conducted a paleontological survey of the proposed Option A site on August 10, 2018, using standard paleontological procedures and techniques. The survey methods consisted of a pedestrian survey conducted in 15-meter-wide transects across the proposed Option A site. The proposed Option A site and the immediately surrounding areas showed evidence of recurring agricultural activity (e.g., plow scars). The proposed Option A site is relatively flat, with an elevation of approximately 1,415 feet above mean sea level. Ground visibility during the survey was excellent (100%). No paleontological resources were identified within the proposed Option A site during the field survey.

A paleontological records search request was sent to the Natural History Museum of Los Angeles County (LACM) on August 16, 2018 (McLeod 2018), and the results were received on August 30, 2018. According to the records search, no paleontological localities are documented within a 1-mile radius of the proposed Option A site boundaries (McLeod 2018). However, localities are documented nearby from similar geological units that may occur beneath portions of the proposed project site. The nearest locality to the proposed project area, LACM 5168, is from older Quaternary deposits similar to those that likely occur at an unknown depth below the surface of the proposed project area. LACM 5168 is located south-southwest near Railroad Canyon Reservoir and consists of a fossil horse (Equus) recovered from an unspecified depth below the surface (McLeod 2018). The next closest vertebrate fossil localities reported by the LACM (LACM 572 and LACM 6059) are somewhat further southwest of the proposed project area, near the northeast corner of Lake Elsinore, and yielded a fossil horse (Equus) and camel (Camelops hesternus). To the northeast of the proposed project area, west of Jack Rabbit Trail and on the western side of Mount Eden, LACM 4540 produced a fossil horse (Equus) (McLeod 2018). The younger Quaternary alluvial deposits that are present on the surface within the proposed project area do not typically yield significant paleontological resources in the uppermost layers because of the young age; however, deeper excavations into Quaternary alluvium can impact older, Pleistocene strata that have the potential to yield significant paleontological resources. The LACM did not recommend paleontological monitoring of shallow excavations into younger Quaternary alluvial deposits; however, paleontological monitoring of deeper excavations that could potentially encounter fossiliferous Pleistocene strata was recommended (McLeod 2018).

Past excavation activities in the area surrounding the proposed project site have encountered paleontological resources in older Quaternary alluvial deposits. Review of the paleontological literature

revealed numerous Pleistocene older alluvial fossil vertebrate localities within Riverside County. For instance, in his compilation of Pleistocene vertebrate localities in California, Jefferson (1991) lists many Pleistocene older alluvial or equivalent localities from Riverside County that have yielded fossil fish, amphibians, reptiles, birds, and mammals. The Diamond Valley Lake Local Fauna, which was recovered from older lacustrine and fluvial deposits near the City of Hemet in Riverside County, yielded over 100,000 fossil specimens including plants, invertebrates, and vertebrates (Jefferson 1991; Springer et al. 2009). With the exclusion of asphaltic localities such as the La Brea Tar Pits, the Diamond Valley Lake Local Fauna represents the largest late-Pleistocene vertebrate fauna in the southwest and continues to yield important scientific data (Springer et al. 2009).

No paleontological resources were identified within the Option A area as a result of the field survey, institutional records search, and desktop geological and paleontological review, and the proposed Option A site is not anticipated to be underlain by unique geologic features. While the proposed Option A area is mapped as being underlain by younger Quaternary alluvial deposits that are generally too young to yield significant paleontological resources, intact paleontological resources may be present within older alluvial deposits at depth. Given the proximity of past fossil discoveries in the surrounding area and the potential for intact, undisturbed, Pleistocene-age deposits at depth, the proposed project site is moderately to highly sensitive for supporting paleontological resources. In the event that intact paleontological resources are located on the project site, ground-disturbing activities associated with construction of the proposed project, such as grading during site preparation, have the potential to destroy a unique paleontological resource or site. Without mitigation, the potential damage to paleontological resources during construction would be a potentially significant impact. However, upon implementation of mitigation measure MM-CUL-1, impacts would be reduced to below a level of significance. Impacts of the proposed project are considered less than significant with mitigation incorporated during construction.

MM-CUL-1

Prior to commencement of any grading activity on site, the applicant shall retain a certified Riverside County paleontologist. The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program for the proposed project. The Paleontological Resources Impact Mitigation Program shall be consistent with the guidelines of the Society of Vertebrate Paleontology (SVP 2010) and should outline requirements for preconstruction meeting attendance and worker environmental awareness training, where monitoring is required within the proposed project site based on construction plans and/or geotechnical reports, procedures for adequate paleontological monitoring and discoveries treatment, and paleontological methods (including sediment sampling for microvertebrate fossils), reporting, and collections management. The certified paleontologist shall attend the preconstruction meeting, and a paleontological monitor shall be on site during all

rough grading and other significant ground-disturbing activities in previously undisturbed older Quaternary alluvial deposits, if encountered. These deposits may be encountered at depths as shallow as 5 feet to 10 feet below ground surface. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find.

Option B

Less than Significant Impact. If EMWD chooses to implement Option B, ground-disturbing activities would occur at the same depths and within the same footprint as the existing BPS facility. Project construction would not involve disturbances beyond what has already occurred. Therefore, the project would have a less than significant impact on paleontological resources.

d) Would the project disturb any human remains, including those interred outside of dedicated cemeteries?

Option A and Option B

Less than Significant Impact. As previously discussed, there are no previously recorded cultural resources on the proposed relocation site or existing BPS site. Since both sites have been previously disturbed, ground-disturbing activities associated with construction of the proposed structures are unlikely to uncover previously unknown archaeological resources. However, if human skeletal remains are discovered during ground-disturbing activities, California Health and Safety Code Section 7050.5 states that the County Coroner must be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains can occur until the County Coroner has determined, within 2 working days of notification of the discovery, the appropriate treatment and disposition of the human remains. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she must notify the Native American Heritage Commission in Sacramento within 24 hours. In accordance with California Public Resources Code Section 5097.98, the Native American Heritage Commission must immediately notify those persons it believes to be the most likely descendant from the deceased Native American. The most likely descendant must complete his or her inspection within 48 hours of being granted access to the site. The designated Native American representative would then determine, in consultation with the property owner, the disposition for the human remains. Therefore, based on compliance with existing state law, impacts associated with the discovery of human remains would be less than significant.

3.6 Geology and Soils

- a) Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Option A and Option B

No Impact. The California Department of Mines and Geology has not identified the project site as an Alquist–Priolo Earthquake Fault Zone (CDOC 2018b). The City is located in an area considered to be seismically active, similar to most of Southern California. However, surface faulting does not occur near the project site or surrounding area. The dominant structural feature in the area is the San Jacinto Fault (Casa Loma Fault), located approximately 10 miles northeast of the site. Therefore, no impacts associated with fault rupture would occur (City of Perris 2017b).

ii) Strong seismic ground shaking?

Option A and Option B

Less than Significant Impact. Like most of Southern California, the project site is located within a seismically active area. Numerous faults considered active or potentially active have been mapped in Southern California, including in the vicinity of the City. According to the GVSP EIR, an earthquake of magnitude 7.1 occurring on the San Jacinto Fault Zone in close proximity to the site could produce a peak ground acceleration on the order of 0.37g with a duration of 30 seconds (City of Perris 1990). Thus, the proposed project could be exposed to strong seismic ground shaking in the event of an earthquake.

Appropriate measures to minimize the effects of earthquakes and other geotechnical hazards are included in the California Building Code (CBC), with specific provisions pertaining to seismic load and design. Design and construction of the proposed project in accordance with the CBC would minimize the adverse effects of strong ground shaking to the greatest degree feasible. Therefore, based on compliance with applicable state requirements related to seismic hazards, impacts associated with strong seismic ground shaking would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

Option A and Option B

Less than Significant Impact. Soil liquefaction is a seismically induced form of ground failure that has been a major cause of earthquake damage in Southern California. Liquefactions is a process by which water-saturated granular soils transform to a liquid state because of a sudden shock or strain, such as an earthquake. According to maps provided by the California Department of Mines and Geology, it is unknown whether the project sites are located within an area where liquefaction has the potential to occur (CDOC 2018b).

However, the proposed project would be designed in accordance with all applicable design provisions set forth by current CBC requirements, which dictate specifications to ensure that facilities and mechanical units would be able to withstand specified soil characteristics, including liquefaction and other seismic-related ground failure. Therefore, impacts associated with liquefaction would be less than significant.

iv) Landslides?

Option A and Option B

No Impact. The project site is located within the flat Perris Valley. Due to the flat lying topography, the potential for seismically induced landslides is considered nonexistent.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Option A and Option B

Less than Significant Impact. The proposed project would involve earthwork and other construction activities that would disturb surface soils and temporarily leave exposed soil on the ground's surface. Common causes of soil erosion from construction sites include stormwater, wind, and soil being tracked off site by vehicles. To minimize the potential of wind or water erosion during construction, the proposed project would be subject to the typical restrictions (e.g., BMPs) and requirements that address erosion and runoff, including those of the Clean Water Act. Construction and operational BMPs would be implemented, as necessary, and may include stormwater and sediment source control, as well as treatment control. The final list of BMPs to be implemented would be determined by the project engineer in conjunction with the construction contractor and would be employed to address erosion, siltation, stormwater, drainage, and potential water quality issues.

Additionally, upon completion of construction, the project would not result in an increase of exposed soils. Therefore, impacts associated with soil erosion would be less than significant.

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Option A and Option B

Less than Significant Impact. As previously discussed, while the broader project area may be susceptible to certain soil instability, the proposed project would be designed in accordance with all applicable design provisions set forth by both the current CBC requirements, which dictate specifications to ensure that facilities and mechanical units would be able to withstand specified soil characteristics, including instability. Additionally, consistent with standard industry practices, soils testing may be conducted prior to completion of final project designs to better understand the specific qualities underlying soils and to design the proposed project in accordance with any potential limitations of the soil. Therefore, impacts associated with unstable soils would be less than significant.

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

Option A and Option B

Less than Significant Impact. Expansive soils are characterized by their potential shrink/swell behavior. Shrink/swell is the change in volume (expansion and contraction) that occurs in certain fine-grained clay sediments from the cycle of wetting and drying. Clay minerals are known to expand with changes in moisture content. The higher the percentages of expansive minerals present in near-surface soils, the higher the potential for substantial expansion.

However, the U.S. Department of Agriculture's Web Soil Survey does not identify the potential project sites or surrounding areas as containing expansive soil (USDA 2018). The existing BPS site is classified as Domino silt loam, strongly saline alkali and Madera fine sandy loam, 0% to 2% slopes (USDA 2018). The proposed relocation site is classified as Domino silt loam, strongly saline-alkali and Domino silt loam, saline alkali (USDA 2018). Both Domino silt loam and Madera fine sandy loam are moderately well drained and do not have a high percentage of expansive minerals. Therefore, impacts associated with expansive soils would be less than significant.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

Option A and Option B

No Impact. The project would not involve the installation of a new septic tank system. No impact would occur.

3.7 Greenhouse Gas Emissions

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant Impact. Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system, and many factors (natural and human) can cause changes in Earth's energy balance. The greenhouse effect is the trapping and build-up of heat in the atmosphere near the Earth's surface (the troposphere). The greenhouse effect is a natural process that contributes to regulating the Earth's temperature, and it creates a livable environment on Earth. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise. Global climate change is a cumulative impact; a project contributes to this impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. Thus, GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008).

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code Section 38505(g) for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride (see also CEQA Guidelines Section 15364.5). The three GHGs evaluated herein are CO₂, CH₄, and N₂O because these gases would be emitted during project construction and/or operations.

The Intergovernmental Panel on Climate Change developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The reference gas used is CO₂; therefore, GWP-weighted emissions are measured in metric tons (MT) of CO₂ equivalent (CO₂e). Consistent with CalEEMod Version 2016.3.2, this GHG emissions analysis assumed the GWP for CH₄ is 25 (i.e., emissions of 1 MT of CH₄ are equivalent to emissions of 25 MT of CO₂), and the GWP for N₂O is 298, based on the Intergovernmental Panel on Climate Change Fourth Assessment Report (IPCC 2007).

As discussed in Section 3.3, the project is located within the jurisdictional boundaries of SCAQMD. In October 2008, SCAQMD proposed recommended numeric CEQA significance thresholds for

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Climate-forcing substances include GHGs and other substances such as black carbon and aerosols. This discussion focuses on the seven GHGs identified in the California Health and Safety Code Section 38505; impacts associated with other climate-forcing substances are not evaluated herein.

GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008). This document, which builds on the previous guidance prepared by the California Air Pollution Control Officers Association, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000 MT CO₂e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (see SCAQMD Resolution No. 08-35, December 5, 2008). The 10,000 MT CO₂e per-year threshold, which was derived from GHG reduction targets established in Executive Order S-3-05, was based on the conclusion that the threshold was consistent with achieving an emissions capture rate of 90% of all new or modified stationary source projects.

SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in a subsequent document. SCAQMD has continued to consider adoption of significance thresholds for residential and general land use development projects. The most recent proposal issued by SCAQMD, issued in September 2010, uses the following tiered approach to evaluate potential GHG impacts from various uses (SCAQMD 2010):

- **Tier 1.** Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.
- **Tier 2.** Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan that has gone through public hearing and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.
- Tier 3. Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MT CO₂e per-year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO₂e per year), commercial projects (1,400 MT CO₂e per year), and mixed-use projects (3,000 MT CO₂e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO₂e per year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.
- **Tier 4.** Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of Assembly Bill (AB) 32 to reduce statewide GHG

emissions to 1990 levels by 2020. The 2020 efficiency targets are 4.8 MT CO₂e per-service population for project-level analyses and 6.6 MT CO₂e per-service population for plan-level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.

Tier 5. Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

To determine the project's potential to generate GHG emissions that would have a significant impact on the environment, the project's GHG emissions were compared to the SCAQMD recommended industrial quantitative threshold of 10,000 MT CO₂e per year. Per the SCAQMD guidance, construction emissions should be amortized over the operational life of the project, which is assumed to be 30 years (SCAQMD 2008). This impact analysis, therefore, sums the projected annual operational GHGs with the amortized construction emissions and compares the total to the proposed SCAQMD threshold of 10,000 MT CO₂e per year.

Construction Emissions

Construction of the project would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. GHG emissions associated with temporary construction activity were quantified using CalEEMod. A detailed depiction of the construction schedule—including information regarding phasing, equipment utilized during each phase, haul trucks, vendor trucks, and worker vehicles—is included in Section 3.3 of this report.

Table 3.7-1 shows the estimated annual GHG construction emissions associated with the Project, as well as the amortized construction emissions over a 30-year "project life."

Table 3.7-1. Estimated Maximum Construction GHG Emissions

	CO ₂	CH₄	N ₂ O	CO₂e		
Scenario	Metric Tons per Year					
Option A	507.2	0.070	0.00	508.9		
Option B	455.1	0.067	0.00	456.8		
	Maximum 508.9					
			Amortized Emissions	16.96		

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent. See Appendix A for complete results.

The maximum total construction emissions for the project were 509 MT CO₂e. Estimated amortized project-generated construction emissions would be approximately 17 MT CO₂e. However, because there

is no separate GHG threshold for construction emissions alone, the evaluation of significance is discussed in the operational emissions analysis below.

Operational Emissions

Operation of the project would generate GHG emissions through the use of the emergency generator for both Option A and Option B. The project would not generate any new sources of GHG emissions from mobile sources or indirect use of electricity as there would be no increase compared to the existing pump station. CalEEMod was used to calculate the annual GHG emissions based on the operational assumptions described in Section 3.3.

The estimated operational (year 2020) project-generated GHG emissions are shown in Table 3.7-2.

Table 3.7-2. Estimated Annual Operational GHG Emissions

	CO ₂	CH₄	N ₂ O	CO₂e	
Emission Source	Metric Tons per Year				
Emergency Generator (Option A and B)	7.98	0.00 0.00		8.01	
Direct Operational Emissions				8.01	
	16.96				
Operation + Amortized Construction Total				24.97	

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.

See Appendix A for detailed results.

These emissions reflect CalEEMod "mitigated" output and operational year 2020.

As shown in Table 3.7-2, the project would result in a total of 25 MT CO₂e per year, including amortized construction emissions. Estimated annual increased GHG emissions associated with development of the proposed project would not exceed the threshold of 10,000 MT CO₂e per year. Therefore, GHG impacts for the proposed project would be less than significant.

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less than Significant Impact. On February 23, 2016, the City of Perris approved Resolution Number 4966, approving the Perris Climate Action Plan (CAP). The CAP establishes a baseline greenhouse gas emissions profile and proposes actions and measures to reduce future greenhouse gas emissions. The measures identified in the CAP represent the City's actions to achieve the GHG reduction targets of AB 32 (City of Perris 2016).

The City of Perris is a participating jurisdiction in the Western Riverside Council of Governments (WRCOG) Subregional CAP. Perris's CAP, including the GHG inventories and forecasts contained within, is based on WRCOG's CAP. The Perris CAP utilizes WRCOG's analysis of existing GHG

reduction programs and policies that have already been implemented in the subregion and of applicable best practices from other regions to assist in meeting AB 32 2020 subregional reduction targets. The resulting GHG reduction measures chosen for the Subregional CAP were based on their GHG-reduction potential, cost-benefit characteristics, funding availability, and feasibility of implementation. The City of Perris independently determined the level of implementation of each measure, and the WRCOG CAP presents the results collectively, demonstrating the collaborative effort and partnership that will facilitate implementation.

Chapter 3 of the Perris CAP describes the GHG reduction measures. The Local GHG Reduction Measures as described in Perris CAP Chapter 3 and the project consistency analysis are provided in Table 3.7-3.

Table 3.7-3. City of Perris CAP Consistency Analysis – Local GHG Reduction Measures

Sector	Measure	Objective or Strategy	Consistency Analysis
Energy	E-1	Energy Action Plan – Improve municipal and community-wide energy efficiency and reduce energy consumption through the adoption of local Energy Action Plans (EAP).	Consistent. EMWD is proposing to replace the Murrieta Road BPS in order to meet current and future hydraulic performance criteria, as well as implement improvements in safety, efficiency, reliability, operations, and maintenance. The existing facility is outdated and has reached the end of its useful life. Replacement of the Murrieta Road BPS has been identified as a priority in the WFMP, Energy Management Plan, and BPS Condition Assessment. Replacement of the BPS with more energy efficient system is consistent with the goals of Measure E-1.
Transportation	T-1	Bicycle Infrastructure Improvements – Expand onstreet and off-street bicycle infrastructure, including bicycle lanes and bicycle trails.	Not Applicable. The project would not impair the ability of the City of Perris to perform bicycle infrastructure improvements.
	T-2	Bicycle Parking – Provide additional options for bicycle parking.	Not Applicable. The project would not impair the ability of the City of Perris to develop bicycle parking.
	T-3	End of Trip Facilities – Encourage use of non- motorized transportation modes by providing appropriate facilities and amenities for commuters.	Not Applicable. The project would not impair the ability of the City of Perris to develop end of trip facilities.
	T-4	Transit Frequency Expansion – Collaborate with local and regional transit providers to provide more frequent transit in the subregion.	Not Applicable. The project would not impair the ability of the City of Perris to provide more frequent transit in the subregion.

Table 3.7-3. City of Perris CAP Consistency Analysis – Local GHG Reduction Measures

Sector	Measure	Objective or Strategy	Consistency Analysis
	T-5	Traffic Signal Coordination – Incorporate technology to synchronize and coordinate traffic signals along local arterials.	Not Applicable. The project would not impair traffic signal coordination.
	T-6	Density – Improve jobshousing balance and reduce vehicle miles traveled by increasing household and employment densities.	Not Applicable. The project would not impair the ability of the City of Perris to improve jobs-housing balance.
	T-7	Mixed-Use Development – Provide for a variety of development types and uses.	Not Applicable. The project would not impair mixed-use development.
	T-8	Design/Site-Planning – Design neighborhoods and sites to reduce VMT [vehicle miles traveled].	Not Applicable. The project is an unmanned utility facility.
	T-9	Pedestrian Only Areas – Encourage walking by providing pedestrian-only community areas.	Not Applicable. The project would not impair the ability of the City of Perris to encourage the development of pedestrian-only community areas.
	T-10	Limited Parking Requirements for New Development – Reduce requirements for vehicle parking in new development projects.	Not Applicable. The project is an unmanned utility facility with minimal parking needs associated with operational maintenance and repair.
	T-11	Voluntary Transportation Demand Management – Reduce demand for roadway travel through incentives for alternative modes of transportation and disincentives for driving.	Not Applicable. The project is an unmanned utility facility with minimal transportation needs associated with operational maintenance and repair.
	T-12	Accelerated Bike Plan Implementation – Accelerate the implementation of all or specified components of a jurisdiction's adopted bike plan.	Not Applicable. The project would not impair the ability of the City of Perris to accelerate Bike Plan Implementation.
Solid Waste	SW-1	Yard Waste Collection – Provide green waste collection bins community- wide.	Not Applicable. The project would not impair the ability of the City of Perris to provide green waste collection bins community-wide.

Table 3.7-3. City of Perris CAP Consistency Analysis – Local GHG Reduction Measures

Sector	Measure	Objective or Strategy	Consistency Analysis
	SW-2	Food Scrap and Paper Diversion – Divert food and paper waste from landfills by implementing collection system.	Not Applicable. The project would not impair the ability of the City of Perris to implement waste collection systems.

As shown in Table 3.7-3, the project is consistent with all applicable City of Perris CAP Local GHG Reduction Measures. In summary, construction and operation of the project will not interfere with the energy, transportation or solid waste local measures in the Perris CAP. Therefore, the project would not conflict with the Perris CAP GHG reduction measures. This impact would be less than significant.

Regarding consistency with Senate Bill (SB) 32 (goal of reducing GHG emissions to 40% below 1990 levels by 2030) and Executive Order S-3-05 (goal of reducing GHG emissions to 80% below 1990 levels by 2050), there are no established protocols or thresholds of significance for that future-year analysis. However, CARB has expressed optimism with regard to both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan that "California is on track to meet the near-term 2020 GHG emissions limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014). With regard to the 2050 target for reducing GHG emissions to 80% below 1990 levels, the First Update to the Climate Change Scoping Plan states the following (CARB 2014):

This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under Assembly Bill 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, CARB believes that the state is on a trajectory to meet the 2030 and 2050 GHG reduction targets set forth in AB 32, SB 32, and Executive Order S-3-05. This is confirmed in the 2017 Climate Change Scoping Plan Update, which states (CARB 2017b):

The Proposed Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while also identifying new, technologically feasibility and cost-effective strategies to ensure that California meets its GHG reduction targets in a way that promotes and rewards innovation, continues to foster economic growth, and delivers improvements to the environment and public health, including in disadvantaged communities. The Proposed Plan is developed to be consistent with requirements set forth in AB 32, SB 32, and AB 197.

The project would not interfere with implementation of GHG reduction goals for 2030 or 2050 because the project would not exceed the SCAQMD's recommended threshold of 10,000 MT CO₂e per year. Therefore, the project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. This impact would be less than significant.

3.8 Hazards and Hazardous Materials

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Option A and Option B

Less than Significant Impact. In order to describe the proposed project's potential impact related to hazardous materials, discussions related to construction and operation are provided.

Construction

A variety of hazardous substances and wastes could be stored, used, and generated during construction of the proposed project. These would include fuels for machinery and vehicles, new and used motor oils, cleaning solvents, paints, sealants, and storage containers and applicators containing such materials. Accidental spills, leaks, fires, explosions, or pressure releases involving hazardous materials represent a potential threat to human health and the environment if not appropriately addressed. Accident prevention and containment are the responsibility of the construction contractors, and provisions to properly manage hazardous substances and wastes are typically included in EMWD's construction specifications. EMWD monitors all contractors for compliance with applicable regulations, including regulations regarding hazardous materials and hazardous wastes. Adherence to ETWD's construction specifications and applicable regulations regarding hazardous materials and hazardous waste would ensure that construction of either Option

A or Option B involving hazardous materials would not create a significant hazard to the public or the environment.

Operational

EMWD uses a number of hazardous materials in the maintenance and repair of the facility. These hazardous materials consist of small quantities of "off-the-shelf" substances that do not represent a significant potential health hazard, and include materials such as lubricant oils, paints, and diesel fuel (used to power the emergency generator). EMWD has adopted a comprehensive *Emergency Response Plan* to provide adequate equipment and training to its personnel to detect, respond to, mitigate, and abate hazards that could occur during an accidental release of hazardous materials. The proposed project would not introduce any additional hazardous materials to the site during the operation and maintenance phase that do not currently exist at the facility today. Therefore, once the new BPS is operational, it would pose a less than significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Option A and Option B

Less than Significant Impact. Please refer to the response provided in Section 3.8(a).

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Option A and Option B

Less than Significant Impact. The closest school to either the existing BPS facility or proposed relocation site is the Learning Tree Preschool located at 26704 Murrieta Road in Sun City. The Learning Tree Preschool is located approximately 1 mile south of the proposed project sites. Additionally, as discussed in Section 3.7(a), construction or operation is not expected to emit hazardous materials into the environment. Impacts would be less than significant.

d) Would the project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Option A and Option B

No Impact. The Hazardous Waste and Substances Sites (Cortese List) is a planning document providing information about the location of hazardous materials release sites. California Government Code Section 65962.5 requires the California Environmental Protection Agency to develop, at least annually, an updated Cortese List. The Department of Toxic Substances Control is responsible for a portion of the information contained in the Cortese List. Dudek reviewed the facilities and/or sites identified in these databases to determine if the project sites and surrounding area are listed on the Cortese List. The results of these efforts are summarized in the Hazardous Materials Memo, included as Appendix D. Additionally, the Hazardous Materials Memo includes a review and summary of regulatory agency records for sites within 1 mile of the project area to determine if these sites have impacted the environmental conditions within the project area. Both the existing BPS site and the proposed relocation site are not in the sites listed pursuant to Government Code Section 65962.5 (Appendix D). The records search for sites within 1 mile of the project area also determined that no impacts to the environmental condition at the project area are anticipated. Therefore, the project is not located on a site that would create a significant hazard to the public or the environment, and no impacts would occur.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

Option A and Option B

Less than Significant Impact. Both the existing BPS site and proposed relocation site are located near airports. The Perris Valley Airport is a privately owned, public-use airport that is located approximately is 0.75 miles northwest of the proposed relocation site (RCALUC 2010). Regardless of the private ownership of the airport, the project sites are within the adopted Airport Influence Area and are subject to the Perris Valley Airport Land Use Compatibility Plan, which incorporates clear, approach, and overflight zones. The existing BPS site is located in Compatibility Zones D and E, and the proposed relocation site is located in Compatibility Zone E (RCALUC 2010). Zone D is a moderate noise impact zone with a low risk level in regard to safety and airspace protection. Zone E is a low risk, low noise impact zone, and prohibits development that would cause hazards to flight (i.e., tall buildings). The proposed project would not interfere with these zones and would be continue to be compatible with the applicable airport compatibility zones. Additionally, the project would result in a BPS, which would require minimal worker presence on site during maintenance operations.

The March Air Reserve Base/Inland Port Airport is located approximately 8 miles north of the proposed relocation site. The Riverside County Airport Land Use Compatibility Plan lists the project sites as being in Zone E (RCALUC 2014). The proposed project would not create a flight hazard, and would be compatible with Zone E requirements.

Given that the project would be consistent with all airport land use compatibility plans and would not result in a substantial number of people working within the project area, impacts associated with airport safety hazards are less than significant.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

Option A and Option B

Less than Significant Impact. Please refer to the response provided in Section 3.8(e) above.

g) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Option A and Option B

Less than Significant Impact. Once the BPS is operational, it would not affect an emergency response plan or emergency evacuation plan as the proposed pipelines would be underground, and the aboveground project components would be outside of paved roadways, and thus, would not affect the use of the affected roadways in the event of an emergency response or evacuation. However, construction of the project has the potential to affect an emergency response or evacuation plan as a result of a temporary lane or roadway closures associated with trenching in Murrieta Road. However, the City does not have any adopted emergency routes (City of Perris 2013b; City of Perris 2008a; City of Perris 2016). Additionally, closure of Murrieta Road would require an encroachment permit from the City, and the applicant would be required to submit and implement a traffic control plan prior to any activity that would result in the closure of Murrieta Road. Compliance with the City's encroachment permit, if determined to be necessary, would limit impacts related to an emergency response plan or evacuation plan to a less than significant level.

h) Would the project expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

Option A and Option B

Less than Significant Impact. As shown on the California Department of Forestry and Fire Protection's Fire and Resources Assessment Program Maps, the project sites are not located within a

Very High Fire Hazard Severity Zone (CAL FIRE 2009). Therefore, impacts associated with wildland fires are less than significant.

3.9 Hydrology and Water Quality

a) Would the project violate any water quality standards or waste discharge requirements?

Option A

Less than Significant Impact. Construction of Option A could result in a temporary increase in erosion and sedimentation from soil disturbance associated with grading, trenching, and backfilling at the project sites. Additionally, as discussed in Section 3.8(a), an inadvertent release of hazardous substances associated with construction could occur at both sites associated with Option A. Implementation of the proposed Option A would include both demolition on the existing BPS site and construction on the proposed relocation site. Because the total area of the combined sites would result in 1 acre or more of ground disturbance, the project would be subject to the NPDES stormwater program, which includes obtaining coverage under the State Water Resources Control Board's General Permit for Discharges of Stormwater Associated with Construction Activity (Construction General Permit). Construction activities subject to the Construction General Permit include clearing, grading, and disturbances to the ground such as stockpiling or excavation. The Construction General Permit requires development and implementation of a storm water pollution prevention plan (SWPPP). Among the required items that must be included within a SWPPP are project design features intended to protect against substantial soil erosion as a result of water and wind erosion, commonly known as BMPs. The implementation of a Construction General Permit, including preparation of a SWPPP and implementation of BMPs, would reduce stormwater runoff impacts to acceptable levels. Therefore, short-term construction impacts associated with water quality would be less than significant.

Option B

Less than Significant Impact with Mitigation Incorporated. Similar to Option A, construction of the project could result in a temporary increase in erosion and sedimentation from soil disturbance associated with trenching and backfilling at the project site. Because the project site would be limited to less than 1 acre of disturbance, the project would not be subject to the NPDES stormwater program, and impacts associated with water quality could occur. However, implementation of a SWPPP (MM-HYD-1) and use of BMPs during construction would ensure that construction activities would not violate water quality standards.

MM-HYD-1 A stormwater pollution and prevention plan (SWPPP) shall be developed and implemented to reduce siltation from the site and prevent the release of hazardous or toxic materials.

Furthermore, once operational, the project would not result in an increase in exposed or bare soils, nor would the new BPS significantly increase runoff during times of flooding. Therefore, upon project completion, the proposed new BPS would not violate any water quality standards and is not expected to create any discharges. Impacts would be less than significant with mitigation.

b) Would the project substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (i.e., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?

Option A and Option B

Less Than Significant Impact. Construction activities under Option A and Option B are not anticipated to encounter groundwater during excavation or ground-disturbing activities; however, the potential for encountering groundwater exists depending on the depth to groundwater. Should groundwater be encountered and dewatering be necessary during construction, a general NPDES dewatering permit from the Santa Ana Regional Water Quality Control Board (RWQCB) would be obtained. Discharges would be made in accordance with the Santa Ana RWQCB requirements outlined in Order No. R9-2008-0002, General Waste Discharge Requirements for Discharges from Groundwater Extraction and Similar Discharges to Surface Waters within the Santa Ana Region, which includes western Riverside County. If necessary, the groundwater would be pumped out of the excavation and discharged in accordance with the SWPPP and/or general waste discharge requirements. The amount of potential groundwater pumped would have minimal effects on the local aquifer because it would be temporary, localized in nature, and would most likely consist of perched groundwater. Potential impacts associated with dewatering would be further reduced through the incorporation of waste management and materials pollution control BMPs and nonstormwater management BMPs included in the SWPPP. For these reasons, the proposed project would have less than significant impacts on groundwater.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?

Option A

Less than Significant Impact. Under the existing condition, the ground surface of the proposed relocation site is covered with soil. Thus, implementation of the Option A would increase the amount of impervious areas on site and could alter the existing drainage patterns. However, the proposed relocation site does not currently have infiltration basins or capture systems in place to control stormwater runoff, and during heavy storm events, on-site stormwater can be conveyed unrestricted off site.

Implementation of the proposed Option A would include ground disturbance at both the existing BPS site (during demolition) and the proposed relocation site (during construction). Because the total area of the combined sites is larger than 1 acre, the project would be subject to the NPDES stormwater program, which includes obtaining coverage under the Construction General Permit. Additionally, the project would be required to comply with all applicable federal, state, and local requirements, including the current Municipal Separate Storm Sewer System (MS4) Permit adopted by the Santa Ana RWQCB. Compliance with these requirements would ensure the new drainage system is designed to capture and treat stormwater flow to prevent pollutants in stormwater discharges, including erosion and siltation. As such, on-site drainage would be designed consistent with all applicable standards related to the collection and treatment of stormwater. Therefore, impacts associated with alteration of the existing drainage pattern would be less than significant.

Option B

Less than Significant Impact with Mitigation Incorporated. Implementation of Option B would limit the area disturbed by the project to less than 1 acre, and therefore would not be required to comply with the NPDES stormwater program. The drainage pattern at the existing BPS could be temporarily altered as a result of open-cut trenching to install a pipeline that would connect the new BPS to the existing 33-inch-diameter pipe in Murrieta Road. While surface disturbances associated with open-cut trenching and installation of the pipeline could temporarily alter existing drainage patterns, once the proposed improvements are installed, trenches and other disturbed areas would be returned to pre-project conditions, and existing drainage patterns would be restored. Construction of Option B would not result in a net increase in impervious surface area. As such, the project would have a minimal impact on existing drainage patterns that could potentially result in substantial on-site or off-site erosion or siltation. In addition, with implementation of BMPs identified in the SWPPP (MM-HYD-1), construction impacts associated with substantial on-site or off-site erosion or sedimentation would be less than significant.

d) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

Option A

Less than Significant Impact. Under the existing condition, the ground surface of the proposed relocation site is covered with soil. Thus, implementation of Option A would increase the amount of impervious areas on site and could alter the existing drainage patterns. However, the proposed relocation site does not currently have infiltration basins or capture systems in place to control stormwater runoff, and during heavy storm events, on-site stormwater is conveyed unrestricted off site.

Implementation of Option A would include ground disturbance at both the existing BPS site (during demolition) and proposed relocation site (during construction). Because the total area of the combined sites is larger than 1 acre, the project would be subject to the NPDES stormwater program, which includes obtaining coverage under the Construction General Permit. Additionally, the project would be required to conform with all applicable federal, state, and local drainage and flood control requirements, as well as the current MS4 Permit adopted by the Santa Ana RWQCB. Compliance with these requirements would ensure the new drainage system is designed to have adequate capacity to capture stormwater flow to prevent erosion or on-site or off-site flooding impacts. As such, altering the on-site drainage pattern would be conducted in a manner consistent with all applicable standards related to the collection and treatment of stormwater. Therefore, impacts associated with altering the existing drainage pattern of the project site would be less than significant. See also the discussion provided under Section 3.18(c).

Option B

Less than Significant Impact. Implementation of Option B would limit the area disturbed by the project to less than 1 acre, and therefore would not be required to conform to the NPDES stormwater program. The drainage pattern at the existing BPS could be temporarily altered as a result of open-cut trenching to install a pipeline that would connect the new BPS to the existing 33-inch-diameter pipe in Murrieta Road. While surface disturbances associated with open-cut trenching and installation of the pipeline could temporarily alter existing drainage patterns, once the proposed improvements are installed, trenches and other disturbed areas would be returned to pre-project conditions, and existing drainage patterns would be restored. Construction of Option B would not result in a net increase in impervious surface area. As such, the project would have a less than significant impact on existing drainage patterns that could potentially result in substantial on- or off-site flooding.

e) Would the project create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Option A

Less than Significant Impact. The proposed project would be required to conform with all applicable federal, state, and local drainage and flood control requirements, as well as the current MS4 Permit adopted by the Santa Ana RWQCB and the Clean Water Act. Compliance with these requirements would ensure the new drainage system is designed to have adequate capacity to capture and convey stormwater flow and prevent the contribution of potential sources of polluted runoff. As such, altering the on-site drainage pattern would be conducted in a manner consistent with all applicable standards related to the collection and treatment of stormwater. Therefore, impacts associated with stormwater drainage system capacity would be less than significant.

Option B

Less than Significant Impact with Mitigation Incorporated. The proposed project would be subject to federal, state, and local drainage and flood control requirements, as well as to the typical restrictions (e.g., BMPs) and requirements that address polluted runoff, including those of the Clean Water Act. Construction and operational BMPs would be implemented, as necessary, and would include stormwater and sediment source control (MM-HYD-1), as well as treatment control, BMPs. The final list of BMPs to be implemented would be determined by the project engineer in conjunction with the construction contractor and would be employed to address erosion, siltation, stormwater, drainage, and water quality issues. Therefore, impacts associated with drainage system capacity and contribution of additional polluted runoff would be less than significant with mitigation incorporated.

f) Would the project otherwise substantially degrade water quality?

Option A

Less than Significant Impact. Please refer to the responses provided for Option A in Sections 3.9(a), 3.9(c), and 3.9(e).

Option B

Less than Significant Impact with Mitigation Incorporated. Please refer to the responses provided for Option B in Sections 3.9(a), 3.9(c), and 3.9(e).

g) Would the project place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

Option A and Option B

No Impact. Option A and Option B involve the construction of a new BPS and do not include any residential uses. Therefore, no impacts associated with placing housing within a 100-year flood hazard area would occur.

h) Would the project place within a 100-year flood hazard area structures which would impede or redirect flood flows?

Option A and Option B

Less than Significant Impact. The existing BPS site and proposed relocation site are at approximate elevations of 1,417 feet AMSL and 1,414 feet AMSL, respectively (Figure 6, FEMA Flood Zone) (FEMA 2014a; FEMA 2014b). At these elevations, both sites are located within the San Jacinto River flood zone, and a regulatory 100-year flood elevation of 1,420 feet ASML has been calculated (EMWD

2017a). Construction of a BPS on either of the proposed sites would require raising the elevation 1 foot above 1,420 feet AMSL, or at 1,421 feet AMSL. Compliance with the regulatory flood heights would place an elevated structure within a 100-year flood hazard area and could potentially impede or redirect flood flows. However, the distance from the closest proposed site (Option A site) is approximately 0.65 miles away from the San Jacinto River. Given the considerable distance to the river, the effect that the BPS structure (on a 1-acre site) elevated to 1,421 feet AMSL would have on flood flows would be negligible, and impacts associated with impeded or redirected flood flows are considered less than significant.

i) Would the project expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

Option A and Option B

Less than Significant Impact. According to the GVSP EIR, the project is located in the Lake Perris Dam Inundation Area (City of Perris 1990). Historically, EMWD has never been impacted by a dam failure (EMWD 2017b). However, there have been a total of 45 dam failures in California's history. Failures have occurred for a variety of reasons. Overtopping accounts for 30% of all dam failures in the United States in the last 75 years, while other dams have failed due to specific shortcomings in the dam itself or an inadequate assessment of the surrounding geomorphologic characteristics (EMWD 2017b). Overtopping occurs when primary and emergency spillways are not sufficient to pass floodwaters, and the excess runs over the top of the dam. The overflow can erode the embankment, weakening the dam wall and potentially causing a full dam failure. However, the Lake Perris Dam has recently undergone a major retrofit as part of a statewide effort to reduce seismic risks to dams (DWR 2018). The retrofit was the first of three major projects to improve seismic stability and enhance public safety in the Perris Dam Remediation Program and was designed to ensure that the dam could withstand a magnitude 7.5 earthquake (DWR 2018). With completion of the dam remediation project and approval by an Independent Consulting Board of recognized dam safety experts and the Division of Safety of Dams, the Department of Water Resources began a controlled refilling of the reservoir after determining that the dam meets public safety standards (DWR 2018). Additionally, as discussed in Section 3.9(h), any localized flood flows impacts would be reduced because the project would be built above regulatory flood heights. The proposed project does not include habitable structures, and all structures would be built in compliance with the CBC, which would require the proposed structures be built to withstand the lateral forces of flood flows. Given these measures, impacts resulting from dam failure are less than significant.

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⁸ This represents the closest potential structure to the San Jacinto River under both Option A and Option B.

j) Inundation by seiche, tsunami, or mudflow?

Option A and Option B

No Impact. The project sites are not near a lake that could be vulnerable to a seiche during high winds. Also, the sites are not within a coastal area or river delta that could be impacted by a tsunami. Finally, the sites are not in an area with steep unstable soils that could fail and cause a mudflow. Thus, no impact would occur.

3.10 Land Use and Planning

a) Would the project physically divide an established community?

Option A and Option B

No Impact. The project would replace an existing BPS in an area consisting of agricultural lands. Surrounding uses include agriculture, the Perris Valley Airport, and the Perris Valley Wastewater Treatment Facility. No residential communities would be physically divided by the proposed project, and no impact would occur.

b) Would the project conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

Option A and Option B

Less than Significant Impact. Both the existing BPS site and the proposed relocation site are located within the City of Perris and are both within the GVSP area, as designated on the City's General Plan Land Use Map (City of Perris 2013). The GVSP assigned a land use designation for the existing BPS site of Single Family (5500 – 6000 SF), and assigned the proposed relocation site (Option A) as Park (City of Perris 2017a).

Per California Government Code Section 53091(d):

Building ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, treatment, or transmission of water, wastewater, or electrical energy by a local agency.

Additionally, California Government Code Section 53091(e) establishes that:

Zoning ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, treatment, or transmission of water, or

for the production or generation of electrical energy, facilities that are subject to Section 12808.5 of the Public Utilities Code, or electrical substations in an electrical transmission system that receives electricity at less than 100,000 volts. Zoning ordinances of a county or city shall apply to the location or construction of facilities for the storage or transmission of electrical energy by a local agency, if the zoning ordinances make provision for those facilities.

In accordance with Sections 53091(d) and 53091(e) of the California Government Code, the proposed project is exempt from the provisions of the City's Land Use/Zoning/Subdivision Regulations. Nonetheless, the proposed project has been designed to be harmonious with the anticipated residential character of the surrounding area, and would adhere to all applicable provisions (e.g., Noise Ordinance) set forth by the Perris Municipal Code. The project would not change, or cause to be changed, any existing land use designation, land use zoning, or roadway classifications or configurations. Moreover, the project would not prohibit future development in accordance with the City's land use guidance and policy documents. As such, the proposed project would be compatible with the surrounding land use mix, and thus, consistent with policies, plans, and regulations that guide these adjacent uses. Therefore, impacts associated with applicable land use plans, policies, and regulations of the City would be less than significant.

c) Would the project conflict with any applicable habitat conservation plan or natural community conservation plan?

Option A and Option B

Less than Significant Impact with Mitigation Incorporated. Please refer to the response provided in Section 3.4(f). The proposed relocation site and existing BPS site are located within the boundaries of the Western Riverside County MSHCP. The project applicant, EMWD, is not a permittee to the MSHCP. EMWD is also the lead agency for this project, and the project would not require approval from a signatory to the MSHCP. Nonetheless, as currently designed, the proposed project would not impact the conservation goals and requirements of the MSHCP, particularly with implementation of MM-BIO-1 through MM-BIO-3 to reduce potential impacts to special-status species covered under the MSHCP as evaluated in Section 3.4(a) above. Therefore, with the incorporation of mitigation, the project would not conflict with any habitat conservation plan or natural conservation plan.

3.11 Mineral Resources

a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

Option A and Option B

No Impact. In order to protect the availability of mineral resources of value, the California Department of Conservation identifies sites to which continuing access is important to satisfying mineral production needs of the region and the state. The relative importance of potential mineral resource sites is indicated by inclusion in one of four Mineral Resource Zones (MRZ):

- **MRZ 1:** No mineral resources
- MRZ 2: Significant resource area (quality and quantity known)
- MRZ 3: Significant resource area (quality and quantity unknown)
- **MRZ 4:** No information (applies primarily to high-value ores)

The California Department of Conservation is primarily interested in preservation of access to significant resources areas included in MRZ 2. Lands within the City of Perris are designated MRZ 3 and MRZ 4, which are not defined as significant resource areas (City of Perris 2008b). Accordingly, no impact to availability of valuable mineral resources will occur.

b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

Option A and Option B

No Impact. The project sites have not been designated as locally important mineral resource recovery sites on any local plan. Accordingly, no impact to availability of a locally important mineral resource recovery site will occur.

3.12 Noise

Noise and Vibration Characteristics

Noise

Noise is defined as unwanted sound. Sound may be described in terms of level or amplitude (measured in decibels (dB)), frequency or pitch (measured in hertz (Hz) or cycles per second), and duration (measured in seconds or minutes). The standard unit of measurement of the amplitude of sound is the decibel (dB). Because

the human ear is not equally sensitive to sound at all frequencies, a special frequency-dependent rating scale is used to relate noise to human sensitivity. The A-weighted decibel scale (dBA) performs this compensation by discriminating against low and very high frequencies in a manner approximating the sensitivity of the human ear. Several descriptors of noise (noise metrics) exist to help predict average community reactions to the adverse effects of environmental noise, including traffic-generated noise, on a community. These descriptors include the equivalent noise level over a given period (Leq), the statistical sound level (Ln), the day–night average noise level (Ltn), and the community noise equivalent level (CNEL). Each of these descriptors uses units of dBA. Table 3.12-1 provides examples of A-weighted noise levels from common sounds. In general, human sound perception is such that a change in sound level of 3 dB is barely noticeable; a change of 5 dB is clearly noticeable; and a change of 10 dB is perceived as doubling or halving of the sound level.

Table 3.12-1. Typical Sound Levels in the Environment and Industry

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
_	110	Rock band
Jet flyover at 300 meters (1,000 feet)	100	_
Gas lawn mower at 1 meter (3 feet)	90	_
Diesel truck at 15 meters (50 feet), at 80	80	Food blender at 1 meter (3 feet)
kilometers per hour (50 mph)		Garbage disposal at 1 meter (3 feet)
Noisy urban area, daytime	70	Vacuum cleaner at 3 meters (10 feet)
gas lawn mower at 30 meters (100 feet)		
Commercial area	60	Normal speech at 1 meter (3 feet)
Heavy traffic at 90 meters (300 feet)		
Quiet urban daytime	50	Large business office
		Dishwasher, next room
Quiet urban nighttime	40	Theater, large conference room (background)
Quiet suburban nighttime	30	Library
Quiet rural night time	20	Bedroom at night, concert hall (background)
_	10	Broadcast/recording studio
Lowest threshold of human hearing	0	Lowest threshold of human hearing

L_{eq} is a sound energy level averaged over a specified period (typically no less than 15 minutes for environmental studies). L_{eq} is a single numerical value that represents the amount of variable sound energy received by a receptor during a time interval. For example, a 1-hour L_{eq} measurement would represent the average amount of energy contained in all the noise that occurred in that hour. L_{eq} is an effective noise descriptor because of its ability to assess the total time-varying effects of noise on sensitive receptors (see Section 3.12.2). L_{max} is the greatest sound level measured during a designated time interval or event.

Unlike the L_{eq} metrics, L_{dn} and CNEL metrics always represent 24-hour periods, usually on an annualized basis. L_{dn} and CNEL also differ from L_{eq} because they apply a time-weighted factor designed to emphasize

noise events that occur during the evening and nighttime hours (when speech and sleep disturbance is of more concern). "Time weighted" refers to the fact that L_{dn} and CNEL penalize noise that occurs during certain sensitive periods. In the case of CNEL, noise occurring during the daytime (7:00 a.m.–7:00 p.m.) receives no penalty. Noise during the evening (7:00 p.m.–10:00 p.m.) is penalized by adding 5 dB, while nighttime (10:00 p.m.–7:00 a.m.) noise is penalized by adding 10 dB. L_{dn} differs from CNEL in that the daytime period is defined as 7:00 a.m.–10:00 p.m., thus eliminating the evening period. L_{dn} and CNEL are the predominant criteria used to measure roadway noise affecting residential receptors. These two metrics generally differ from one another by no more than 0.5 dB to 1 dB and as such, are often treated as equivalent to one another.

Vibration

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration can be a serious concern, causing buildings to shake and rumbling sounds to be heard. In contrast to noise, vibration is not a common environmental problem. It is unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads. Some common sources of vibration are trains, buses on rough roads, and construction activities, such as blasting, pile driving, and heavy earthmoving equipment.

Several different methods are used to quantify vibration. Peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. PPV is most frequently used to describe vibration impacts to buildings and is usually measured in inches per second. The root mean square amplitude is most frequently used to describe the effect of vibration on the human body and is defined as the average of the squared amplitude of the signal. Decibel notation is commonly used to measure root mean square. The decibel notation acts to compress the range of numbers required to describe vibration.

High levels of vibration may cause physical personal injury or damage to buildings. However, vibration levels rarely affect human health. Instead, most people consider vibration to be an annoyance that can affect concentration or disturb sleep. In addition, high levels of vibration can damage fragile buildings or interfere with equipment that is highly sensitive to vibration (e.g., electron microscopes). Most perceptible indoor vibration is caused by sources within buildings, such as operation of mechanical equipment, movement of people, or slamming of doors. Typical outdoor sources of perceptible vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If the roadway is smooth, the vibration from traffic is rarely perceptible.

Sensitive Receptors

Noise- and vibration-sensitive land uses are locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, and some passive recreation areas would be considered noise and vibration sensitive and may warrant unique measures for protection from intruding noise. Sensitive receptors near the project site include residential uses located to the south of the project site. These sensitive receptors represent the nearest sensitive land uses with

the potential to be impacted by construction and operation of the proposed project. Although currently both the existing BPS site and the proposed relocation site are surrounded by agricultural uses, the area surrounding the existing BPS site has been zoned for single-family residential use and the area surrounding the proposed relocation site has been zoned for single-family and park use (City of Perris 2017a). These areas are anticipated to undergo residential development in the near future, as detailed in Section 2.3.

Existing Noise Conditions

Noise measurements were conducted near the project site on September 11, 2018, to characterize the existing noise levels. Table 3.12-2 provides the location, date, and time the noise measurements were taken. The noise measurements were taken using a Soft dB Piccolo sound level meter equipped with a 0.5-inch, pre-polarized condenser microphone with pre-amplifier. The sound level meter meets the current American National Standards Institute standard for a Type 2 (General Use) sound level meter. The accuracy of the sound level meter was verified using a field calibrator before and after the measurements, and the measurements were conducted with the microphone positioned approximately 5 feet above the ground.

Table 3.12-2. Measured Noise Levels

Receptors	Location	Date	Time	L _{eq} (dBA)	L _{max} (dBA)
ST1	East of project site, adjacent to project fenceline and just west of Murrieta Road	9/11/2018	10:55 a.m.–11:10 a.m.	65.7	81.6
ST1	South of project site, adjacent to existing residence and just southwest of Ethanac Road and Murrieta Road	9/11/2018	11:17 a.m.–11:32 a.m.	65.8	83.2

Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); L_{max} = maximum sound level during the measurement interval; dBA = A-weighted decibels.

Two short-term noise measurement locations (ST) were conducted adjacent to and south of the project site. ST1 represents the existing ambient noise levels near the existing pump station. ST2 is located to the south and represents ambient noise levels at the nearest existing noise-sensitive uses. The measured energy-averaged (L_{eq}) and maximum (L_{max}) noise levels are provided in Table 3.12-2. The field noise measurement data sheets are provided in Appendix E-1. The primary noise sources at the sites identified in Table 3.12-2 consisted of traffic on Murrieta Road and Ethanac Road, and (for ST1) noise from the existing pump station equipment. As shown in Table 3.12-2, the measured sound levels were approximately 66 dBA L_{eq} at both ST1 and ST2.

Regulatory Setting

City of Perris

The project site is located within the City of Perris, as are the existing residences south of the project site. The City outlines its noise regulations and standards as they pertain to this project (which is limited to construction

noise and potential mechanical operation noise) in the Municipal Code (City of Perris 2000). The City establishes stationary noise limits in Section 7.08.060 and construction noise limitations in Section 7.34.040.

Stationary Noise Regulation

The City has implemented exterior stationary noise limits for offending stationary noise sources (i.e., non-transportation noise sources), outlined in Municipal Code Section 7.34.060. Table 3.12-3 outlines the City's residential noise limits.

Table 3.12-3. City of Perris Noise Ordinance Exterior Noise Standards

Permitted Not-to-Exceed Noise Level	Time Period
80 dBA	7:01 a.m.—10:00 p.m.
60 dBA	10:01 p.m7:00 a.m.

Source: City of Perris 2000, Section 7.34.040.

Notes: dBA = A-weighted decibels.

Construction Noise Regulation

Per City of Perris Code Section 7.34.060, construction noise is not permitted between the hours of 7:00 p.m. and 7:00 a.m. or on Sundays or legal holidays (except Columbus Day and Washington's Birthday). Additionally, construction noise exceeding a noise level of 80 dBA is prohibited in residential zones.

Noise and Vibration Impacts

a) Would the project result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

On-site noise-generating activities associated with the proposed project would include short-term construction activities, as well as on-site mechanical noise. The proposed project would not generate off-site traffic noise along local roadways or noise from other sources.

Short-Term Construction Impacts - Option A and Option B

Less than Significant Impact. Construction noise and vibration are temporary phenomena. Construction noise and vibration levels vary from hour to hour and day to day, depending on the equipment in use, the operations being performed, and the distance between the source and receptor.

Equipment that would be in operation during construction would include, in part, excavators, graders, backhoes, compressors, welders, and paving equipment. The typical maximum noise levels for various pieces of construction equipment at a distance of 50 feet are presented in Table 3.12-4. Note that the equipment noise levels presented in Table 3.12-4 are maximum noise levels. Typically, construction equipment operates in alternating cycles of full power and low power, producing average noise levels

less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time.

Table 3.12-4. Typical Construction Equipment Noise Emission Levels

Equipment	Typical Sound Level (dBA) 50 Feet from Source			
Air compressor	81			
Backhoe	80			
Compactor	82			
Concrete mixer	85			
Concrete pump	82			
Concrete vibrator	76			
Crane, mobile	83			
Dozer	85			
Generator	81			
Grader	85			
Impact wrench	85			
Jackhammer	88			
Loader	85			
Paver	89			
Pneumatic tool	85			
Pump	76			
Roller	74			
Saw	76			
Truck	88			

Source: FTA 2006.

Note: dBA = A-weighted decibels.

The maximum noise levels at 50 feet for typical construction equipment would be approximately 89 dBA for the equipment typically used for this type of development project, although the hourly noise levels would vary. Construction noise in a well-defined area typically attenuates at approximately 6 dB per doubling of distance. Project construction would take place within approximately 275 feet of the nearest noise-sensitive land uses (residences to the east). Residences to the northeast are located approximately 310 feet away, and a park is located to the southeast, approximately 550 feet from the project site.

The Federal Highway Administration's Roadway Construction Noise Model (RCNM) (FHWA 2008) was used to estimate construction noise levels. Although the model was funded and promulgated by the Federal Highway Administration, the RCNM is often used for non-roadway projects, because the same types of construction equipment used for roadway projects are often used for other types of construction. Input variables for the RCNM consist of the receiver/land use types, the equipment

type and number of each (e.g., two graders, a loader, a tractor), the duty cycle for each piece of equipment (e.g., percentage of hours the equipment typically works per day), and the distance from the noise-sensitive receiver. No topographical or structural shielding was assumed in the modeling. The RCNM has default duty-cycle values for the various pieces of equipment, which were derived from an extensive study of typical construction activity patterns. Those default duty-cycle values were used for this noise analysis.

Using the RCNM and construction information, the estimated noise levels from the major construction phases were calculated for the nearest noise-sensitive land use, located to the south of the project site(s). The calculations were performed for both Option A (in which the replacement BPS would be constructed at a different site located approximately 3,000 feet north of the existing location), and for Option B (in which the replacement BPS would be constructed in the location of the existing BPS). Under both scenarios, the project would include the following components: Demolition; Survey/Staking/Flagging; Demolition; Grading; Building Construction; Equipment and Pipe Installation; and Paving, as presented in Table 3.12-5. The RCNM inputs and outputs are provided in Appendix E-2.

Table 3.12-5. Construction Noise Model Results Summary

	Construction Noise at Representative Receiver Distances (L _{eq} (dBA))			
	Nearest Residence	Nearest Residence		
Construction Phase	(Option A, Approx. 4,000 feet Away)	(Option B Approx. 1,000 feet Away)		
Demolition	49	61		
Survey/Staking/Flagging	45	57		
Demolition	61	61		
Grading	46	58		
Building Construction	49	61		
Equipment and Pipe Installation	48	60		
Paving	43	55		

As shown in Table 3.12-5, under Option A the construction noise levels are predicted to range from approximately 43 to 61 dBA L_{eq} at the nearest existing residence, located to the south. Under Option B, the construction noise level at the same residence to the south would range from approximately 55 to 61 dBA L_{eq} .

As previously discussed, the City of Perris Municipal Code prohibits construction activities between the hours of 7 p.m. and 7 a.m. or on Sundays or legal holidays (except Columbus Day and Washington's birthday). Additionally, construction noise exceeding a noise level of 80 dBA is prohibited in residential zones. It is anticipated that construction activities associated with the proposed project would take place exclusively within the permitted hours.

Although nearby residences would be exposed to construction noise levels that would be audible at times, the exposure would be well below the limit for construction noise of 80 dBA; would be short term and would cease upon completion of project construction. Project-related construction noise would not violate the City of Perris standards for construction noise. Therefore, short-term construction impacts associated with a temporary increase in noise levels would be less than significant. No mitigation is required.

Long-Term Operational Impacts - Option A and Option B

Less than Significant Impact. As described in Section 2.6.1, Project Description, the new BPS would replace the existing, outdated facility with new, more reliable and more serviceable equipment. The proposed new BPS would enclose most of the noise-generating equipment within a solid building constructed of masonry block. Natural gas engines power the existing facility, while the proposed facility will be powered by electric motors, which will be significantly quieter. Therefore, the noise from the new BPS would be substantially lower than the existing facility. Additionally, the new facility (whether constructed at the proposed location under Option A, or at the existing location under Option B, would include a solid masonry wall 8 feet in height on the three sides facing future planned noise-sensitive uses. Based upon the noise measurement adjacent to the existing BPS⁹ and estimates of noise reduction from the 8-foot high wall¹⁰, a quieter facility would neither exceed City of Perris daytime and nighttime noise standards, nor result in a substantial noise increase. Therefore, noise levels from the proposed project would be less that significant.

b) Would the project result in exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

Option A and Option B

Less than Significant Impact. Construction activities have the potential to expose persons to excessive ground-borne vibration or ground-borne noise. Ground-borne vibration information related to construction activities has been collected by Caltrans (Caltrans 2013). Information from Caltrans indicates that continuous vibrations with a PPV of approximately 0.1 inches/second begin to annoy people. The heavier pieces of construction equipment, such as an excavator, would have PPVs of approximately 0.089 inches/second or less at a distance of 25 feet (FTA 2006). Ground-borne vibration is typically attenuated over short distances. At the distance from the nearest residences

⁹ Approximately 66 dBA (see Table 3.12-2)

The proposed 8-foot high masonry wall would provide approximately 10 to 11 decibels of noise reduction (depending upon the source-receiver distance and equipment location at either of the two proposed sites (Option A or Option B). Thus, even if the existing natural-gas powered engines were used, the resultant noise level would be less than the City's noise standards (80 dBA L_{eq} daytime, 60 dBA L_{eq} nighttime).

to the proposed project site (approximately 4,000 feet under Option A and 1,000 feet under Option B), and with the anticipated construction equipment, the PPV vibration level would be approximately 0.0000 and 0.0004 inches/second, respectively. This vibration level would be well below the vibration threshold of potential annoyance of 0.1 inches/second.

The major concern with regard to construction vibration is related to building damage. Construction vibration as a result of the proposed project would not result in structural building damage, which typically occurs at vibration levels of 0.5 inches/second or greater for buildings of reinforced-concrete, steel, or timber construction. The heavier pieces of construction equipment used would include typical construction equipment for this type of project, such as backhoes, front-end loaders, and flatbed trucks. Pile driving, blasting, and other special construction techniques will not be used for construction of the proposed project; therefore, excessive ground-borne vibration and ground-borne noise would not be generated. Vibration levels from project construction would be less than the thresholds of annoyance and potential for structural damage. Operation of the proposed project would not result in any sources of vibration. Therefore, impacts would be less than significant.

c) Would the project result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

Option A and Option B

Less than Significant Impact. As previously discussed in Section 3.12(a), operation of the proposed project is anticipated to result in an increase in ambient noise levels lower than existing noise levels. While the proposed relocation site is currently vacant and the development of the proposed project would introduce a new noise source to the immediate area, there are no nearby noise-sensitive receptors. In fact, the nearest noise sensitive receptors are located closest to the existing BPS site, and thus, under Option A, ambient noise experienced at these receptors would be decreased. Furthermore, as discussed in Section 3.12 (a) the proposed 8-foot high masonry wall would provide approximately 10 to 11 decibels of noise reduction (depending upon the source-receiver distance and equipment location at either of the two proposed sites (Option A or Option B), no exceedance of City of Perris daytime and nighttime noise standards would occur. The project would therefore not result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project; noise impacts would be less than significant.

d) Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Option A and Option B

Less than Significant Impact. As addressed in Section 3.12(a), project construction would not result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project. Therefore, impacts would be less than significant.

e) Would the project be located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

Option A and Option B

No Impact. The Option A site is located approximately 0.7 miles southeast of Perris Valley Airport, and the Option B site is located approximately 1 mile southeast of Perris Valley Airport. The airport is privately owned and is open to the public as a general aviation and skydiving facility; the airport operates from dawn to dusk, and its primary occupant is a skydiving business. According to the County of Riverside General Plan, Appendix I-1, Noise Element Data, the airport's ultimate noise contours indicates that the 65 dBA CNEL noise contour would be located approximately 0.6 miles from the Option A site, and approximately 0.95 miles from the Option B site (County of Riverside 2015). Thus, air traffic noise associated with the airport would not expose construction workers or EMWD employees to excessive noise levels. Therefore, no impacts associated with public airport and air traffic noise would occur.

f) Would the project be within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

Option A and Option B

No Impact. No private airstrips are located within the broader vicinity of the City (AirNav.com 2018). Therefore, no impacts associated with private airstrip noise would occur.

3.13 Population and Housing

a) Would the project induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Option A and Option B

Less than Significant Impact. A project may directly induce growth if it would remove barriers to population growth such as a change to a jurisdiction's general plan and zoning ordinance that allowed new residential development to occur. The project would not construct housing or commercial facilities and would not modify the land use or zoning designations for the project site to permit new residential or commercial development. Therefore, the project would not directly induce growth.

The project would generate a limited number of construction jobs, but this would be a temporary effect and would not provide permanent economic growth to the area. EMWD would not hire new employees as a direct result of project implementation. The effect on employment and economic growth would be less than significant.

A project may have the potential to indirectly induce growth if it increases the capacity of infrastructure in an area in which the public service currently meets demand. The project would involve the replacement of an old and outdated BPS. The need for the project arose after the WFMP determined that the existing BPS lacks the necessary capacity to accommodate a planned increase in future water supplies, particularly in 2030 when the southern part of the 1627 PZ will begin to receive water from the Skinner Water Treatment Plant (EMWD 2017a). This increase in capacity would accommodate for planned increases in water supply that could potentially indirectly induce population growth. However, California courts have recognized that there is a difference in the potential for indirect growth inducement to occur when the sole reason to construct an infrastructure improvement project is to provide a catalyst for further development in the immediate area, as compared to a project designed to accommodate a development whose growth-inducing impact has already been addressed (City of Huntington Beach 2010). In this case, an evaluation of the potential inducement of growth relating from the new supplies of water being delivered to the 1627 PZ has already been presented and analyzed in the general plans and associated EIRs for the City of Perris and County of Riverside, as well as the specific plan and associated EIR for the GVSP area and the addendum to the GVSP EIR. The aforementioned documents acknowledged that the implementation of their respective projects would result in growth-inducing impacts, and presented policies, programs, and mitigation measures that reduce impacts to a less than significant level. These potential growth-inducing impacts were adequately addressed in the environmental analyses of the respective EIRs. Additionally, future development would still require individual City and CEQA clearance, permitting, and any required approvals. Therefore, the project would not induce substantial population growth in the area, either directly or indirectly. Impacts on local population trends would be less than significant.

b) Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

Option A and Option B

No Impact. Project construction and operation would not necessitate the demolition or relocation of existing housing units. Since no housing or people will be displaced as a result of project implementation, no impact will occur.

c) Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

Option A and Option B

No Impact. Please refer to the response provided in Section 3.13(b).

3.14 Public Services

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

Option A and Option B

Fire protection?

No Impact. The project involves the replacement of an old and outdated BPS. As discussed above in Section 3.13 (a), the project would not induce substantial population growth. As such, the project does not necessitate the construction of new governmental facilities or increase the demand for fire protection services in the City. Therefore, no impact would occur.

Police protection?

No Impact. Please refer to the response provided in Section 3.14(a). The project would not increase the demand for police protection services in the City. Therefore, no impact would occur.

Schools?

No Impact. Please refer to the response provided in Section 3.14(a). The project would not increase the demand for school services in the City. Therefore, no impact would occur.

Parks?

No Impact. Please refer to the response provided in Section 3.14(a). The project would not increase the demand for new park facilities or increase demand for park services in the City. Therefore, no impact would occur.

Other public facilities?

No Impact. Please refer to the response provided in Section 3.14(a). The project would not increase the demand for other public services in the City. Therefore, no impact would occur.

3.15 Recreation

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Option A and Option B

No Impact. The proposed project would not induce substantial population growth in the City. Thus, the project would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. Accordingly, no impacts would occur.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

Option A and Option B

No Impact. Please refer to the response provided in Section 3.15(b).

3.16 Transportation and Traffic

a) Would the project conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Option A and Option B

Less than Significant Impact with Mitigation Incorporated. The proposed project site is accessed by Murrieta Road, which is a two-lane undivided roadway classified as a Secondary Arterial roadway by the City of Perris (City of Perris 2008a). Average daily traffic on this roadway is approximately 1,300 vehicles per day (City of Perris 2008a).

Implementation of the proposed project would generate traffic during the 14-month construction phase. This traffic would include construction vehicles, workers' vehicles, and supply trucks carrying equipment and ready-mixed concrete trucks to the project site. Construction activity would add approximately 21 average vehicle trips per day during the construction period and would not be substantial in terms of traffic load and capacity. Additionally, construction of the project would require trenching in Murrieta Road in order to relocate existing utilities and connect the project to the 1627 PZ. These activities may cause periodic, but temporary, lane closures along Murrieta Road, and may temporarily obstruct the normal flow of traffic.

If EMWD chooses to implement Option B, a key constraint for the construction of the new BPS is to keep the existing BPS operational until the new BPS can be commissioned and brought on line. As discussed above in Section 2.3, Environmental Setting, the area to the north, south, and west of the existing BPS site is part of Phase I of the GVSP residential development, as detailed in TTM 36988. TTM 36988 is anticipated to be constructed in the near future and would include both construction of residential lots adjacent to the site and the widening of Murrieta Road adjacent to the existing BPS. The widening of Murrieta Road poses a potential issue for EMWD as it would lead to conflicts between construction crews for the two projects. Two alternatives have been developed to allow for partial construction of the ultimate Murrieta Road cross-section adjacent to the existing BPS site, as shown in Figure 9, Option B Temporary Traffic Control Option 1, and Figure 10, Option B Temporary Traffic Control Option 2 is the preferred temporary control option. It is anticipated the City would need to approve an encroachment permit for the temporary condition, unless the City waives the requirement to improve Murrieta Road as part of TTM 36988 until the BPS construction is complete.

Regardless which Option EMWD ultimately selects, construction of the project would temporarily impede and obstruct the normal flow of traffic. In order to offset any potentially significant impacts during construction, incorporation of MM-TRA-1 would be required.

MM-TRA-1 Prior to finalization of plans and specifications, a construction traffic control plan shall be prepared by EMWD and/or their construction contractor and be approved by the City of Perris for any construction activities that encroach into Murrieta Road's right-of-way. The traffic control plan shall include measures designed to ensure a free flow of traffic during lane closures, including, but not limited to, warning signs, lights, flashing arrow boards, barricades, cones, flaggers, pedestrian detours, parking restrictions, and/or restricted hours during which lane closures would not be allowed (e.g., peak AM and PM hours of 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.).

Upon completion of construction, all piping within Murrieta Road would be entirely below ground and would not impair or interfere with the local circulation system. Once operational, the BPS would require a minimal number of trips, primarily for routine operations and maintenance activities. However, since EMWD staff already visits the project site to perform operations and maintenance activities on the existing BPS, trips associated with the new BPS would not be considered new vehicle trips; thus, no new trips would be generated that would decrease the effectiveness of a circulation system. With the implementation of mitigation, impacts to performance of the local and regional circulation system would be less than significant.

b) Would the project conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

Option A and Option B

No Impact. The Riverside County Transportation Commission is the designated congestion management agency for Riverside County, and is tasked with preparing the Congestion Management Program (CMP) in consultation with local agencies, transit agencies, and sub-regional agencies (RCTC 2011). The intent of the CMP is to more directly link land use, transportation, and air quality, thereby prompting reasonable growth management programs that will effectively utilize new transportation funds, alleviate traffic congestion and related impacts, and improve air quality (RCTC 2011).

The project facilities would not impact any highways or roadways identified in the current CMP. The nearest CMP facility is Interstate 215, approximately 1 mile east the nearest project facility (RCTC 2011). Moreover, there are no components of the project that would cause a substantial permanent increase in traffic, which would result in an individual or cumulative exceedance of an established level of service standard. There would be a temporary increase in trips associated with project construction,

and there would be no increase in trips associated with maintenance activity the BPS. Therefore, with respect to a conflict with the applicable CMP, no impact would occur.

c) Would the project result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

Option A and Option B

No Impact. As discussed above in Section 3.8(e), the existing BPS facility is located in Compatibility Plan Zone D and E for the Perris Valley Airport and in Compatibility Zone E for March Air Force Base (RCALUC 2010; RCALUC 2014). While the project facilities are located in these airport planning areas, the project does not include any component that could alter air traffic patterns as the project's pipeline would be subterranean, and the aboveground facilities are no greater than 10 feet tall from existing grade. Therefore, no impacts related to air traffic patterns would occur.

d) Would the project substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Option A and Option B

No Impact. The project would not result in changes to the existing roadway configurations and geometries. Upon completion of construction and installation of the project's new and replacement pipelines, the alignment would be restored to its pre-project condition. The project does not include any component that would result in an incompatible use of the existing roadways. No impact would occur.

e) Would the project result in inadequate emergency access?

Option A and Option B

Less than Significant with Mitigation Incorporated. Construction of either option has the potential to temporarily affect emergency access resulting from construction within existing roadway rights-of-way in order to connect the new BPS with the 33-inch-diameter' pipeline located within Murrieta Road, which could require temporary lane or roadway closures. However, with implementation of MM-TRA-1, as discussed in Section 3.16(a), potential impacts would be mitigated to less than significant as this measure requires a construction traffic control plan be prepared that would provide safe access and passage along affected roadways according to City standards. Therefore, the project's impacts would be less than significant with mitigation incorporated.

f) Would the project conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

Option A and Option B

No Impact. While the project would temporarily affect segments of Murrieta Road, the GVSP and the City's General Plan do not identify the affected segments as supporting alternative transportation, as there are no existing or proposed bus routes, bicycle paths, or public transit routes (City of Perris 2005). A future sidewalk is proposed as part of TTM 36988 to enable pedestrian passage along Murrieta Road (EMWD 2017a). All future operations and maintenance of the proposed project would occur within the bounds of the new or existing BPS facility, and would not decrease the performance of the future sidewalk. Therefore, no impacts would occur relating to alternative transportation.

3.17 Tribal Cultural Resources

- a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

Option A and Option B

No Impact. A review of the National Register of Historic Places digital archive and the list of California Register of Historical Resources indicated there are no listed sites located on the project site. Additionally, no local properties are found on the California Register of Historical Resources and/or National Register of Historic Places. The site does not contain any tribal cultural resources as defined by Public Resources Code Section 21074 that are listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k).

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

Option A and Option B

Less than Significant Impact. AB 52 established a formal consultation process for California Native American Tribes to identify potential significant impacts to tribal cultural resources, as defined in Public Resources Code Section 21074, as part of CEQA. As specified in AB 52, lead agencies must provide notice inviting consultation to California Native American Tribes that are traditionally and culturally affiliated with the geographic area of a proposed project. The tribes must respond in writing within 30 days of the City's AB 52 notice. On February 17, 2016, an EMWD letter was mailed to Native American Heritage Commission-listed tribes known to have affiliation with the area, describing the project and requesting any information regarding resources that may exist on or near the project site. Agua Caliente Band of Cahuilla Indians responded on February 24, 2016, and stated that the project is not located within the tribe's Traditional Use Area. On February 25, 2016, Rincon Band of Luiseno Indians responded that they did not have additional information regarding the project and deferred to Pechanga Band of Luiseno Indians and Soboba Band of Luiseno Indians. On March 17, 2016, Soboba Band of Luiseno Indians responded with the request to initiate formal consultation with EMWD. On March 22, 2016, Pechanga Band of Luiseno Indians responded and stated that the project is located within a culturally sensitive area affiliated with the tribe. EMWD is currently conducting formal consultation with Soboba Band of Luiseno Indians and Pechanga Band of Luiseno Indians. Any information obtained through those processes will be included in subsequent drafts of this report.

Both the Option A and Option B site have been previously disturbed and are considered to have a low probability for encountering tribal cultural resources. Further, the contacted tribes have not provided additional information regarding the presence of tribal cultural resources. Therefore, impacts to tribal cultural resources would be less than significant, and no mitigation is required.

3.18 Utilities and Service Systems

a) Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Option A and Option B

No Impact. The City, including the project, is located in the Santa Ana RWQCB area (SARWQCB 2016). The project would not include any component that would generate wastewater; thus, the project would not have a potential to exceed any wastewater treatment requirements of the applicable RWQCB.

b) Would the project require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Option A and Option B

Less than Significant Impact. The project would involve the replacement of an old and outdated BPS in order to convey potable water to meet current and projected demands. Potable water is treated before entering the City's distribution system, and thus, well before it would arrive at the project's facilities. The City receives its supply of water from a combination of local and imported sources. The majority of EMWD's supplies are imported water purchased through the Metropolitan Water District of Southern California from the State Water Project and the Colorado River Aqueduct (EMWD 2016a). Imported water is delivered to EMWD either as potable water treated by Metropolitan Water District, or as raw water that EMWD can either treat at one of its two local filtration plants or deliver as raw water for non-potable uses. EMWD's local supplies include groundwater, desalinated groundwater, and recycled water (EMWD 2016b). The project would not increase the amount of potable water available to the City, and thus, would not increase any need for new or expanded water treatment facilities. Additionally, the project would not generate wastewater, and would not increase any need for new or expanded wastewater treatment facilities. Therefore, no impact would occur.

c) Would the project require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Option A and Option B

No Impact. Improvements associated with TTM 36988 include new stormwater drainage facilities that would serve the area surrounding the proposed project sites. The environmental analysis for the residential development in the Addendum to the GVSP noted that the residential development would result in an increase in site runoff and required mitigation as part of the development. Mitigation for the residential development includes a detailed drainage plan, measures to reduce runoff where

feasible, and construction of flood control facilities (City of Perris 2017b). Either option would benefit from these site improvements, as any stormwater runoff generated by the BPS would be collected by the residential development's proposed stormwater drainage facilities. It should also be noted that he project is separate from the residential development, and would not require any new or expanded facilities. Therefore, no impact would occur.

d) Would the project have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

Option A and Option B

No Impact. The proposed project would involve the replacement of a BPS. While the project's purpose is to convey water supplies, no water supplies would be consumed by the project. Accordingly, no new or expanded entitlements would be required, and no impacts would occur.

e) Would the project result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Option A and Option B

No Impact. No wastewater treatment demands would occur as a result of the proposed project since no new development is proposed. No impacts would occur.

f) Would the project be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

Option A and Option B

Less than Significant Impact. The proposed project, once complete, would not require solid waste material disposal. Waste generated during demolition and construction would be minimal, and debris would be recycled as applicable. EMWD would require its construction contractor to comply with all federal, state, and local statutes and regulations related to solid waste. Impacts are considered less than significant.

g) Would the project comply with federal, state, and local statutes and regulations related to solid waste?

Option A and Option B

No Impact. Please refer to the response provided in Section 3.16(f).

3.19 Mandatory Findings of Significance

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?

Option A and Option B

Less than Significant with Mitigation Incorporated. As discussed in Section 3.4, Biological Resources, although both the proposed relocation site and the existing BPS site are heavily disturbed, potential impacts could occur to sensitive plants, wildlife, and nesting birds. Implementation of mitigation measures MM-BIO-1 through MM-BIO-3 would reduce these impacts to less than significant.

Additionally, as discussed in Section 3.5, the project would have no impact or a less than significant impact on important examples of the major periods of California history; however, potential impacts could occur to paleontological resources. Mitigation measure MM-CUL-1 would ensure that the project would have a less than significant impact on important examples of the major periods of California prehistory. Therefore, the project would not eliminate important examples of the major periods of California history or prehistory.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects).

Option A and Option B

Less than Significant Impact. The project would replace an existing BPS. The project does not have any impacts that are individually limited, but cumulatively considerable. Moreover, the project would not result in any significant impacts. The project is consistent with local and regional plans, including the AQMP, and the project's air quality emissions do not exceed the SCAQMD-established thresholds of significance. The project adheres to all other land use plans and policies with jurisdiction in the project area. Further, the project is not considered growth-inducing as defined in State CEQA Guidelines Section 15126.2(d). The project would not induce, either directly or indirectly, population and housing growth, and would not substantially increase traffic volume in the project area. Therefore, impacts would be less than significant.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Option A and Option B

No Impact. It has been determined through this Initial Study and Mitigated Negative Declaration that the project's potential impacts would not cause substantial adverse effects on human beings either directly or indirectly. Therefore, no impacts would result.

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4.2 List of Preparers

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APPENDIX A

CalEEMod Outputs

APPENDIX B

Biological Resources

APPENDIX B-1

Species Compendium

APPENDIX B-2

CNDDB Species List

APPENDIX B-3

CNPS Inventory List

APPENDIX C

Cultural Resources Letter Report

APPENDIX D

Hazardous Materials Memorandum

APPENDIX E-1

Field Measurement Data

APPENDIX E-2

RCNM Outputs

APPENDIX A

CalEEMod Outputs

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EMWD Murrieta Booster Pump Station - Option A - Riverside-South Coast County, Annual

EMWD Murrieta Booster Pump Station - Option A

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	49.50	1000sqft	1.14	49,500.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Based on applicant provided information

Off-road Equipment - Existing farmland, 11,731 CY of fill added to the site.

Off-road Equipment - Line painting of parking area and miscellaneous pavement painting

Off-road Equipment - Based on applicant provided information

Off-road Equipment - Site survey, staking and flagging for construction. Minor grubbing.

Trips and VMT - Estimated based on construction schedule

Grading - 11,731 cubic yards of fill

Architectural Coating - Parking area equals all paved area for the project including the site and access road.

Vehicle Trips - Unmanned facility

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer products

Area Coating - Paved area assumed without line painting

Landscape Equipment - No landscape equipment

Energy Use - Proposed facility replaces an existing facility and the new facility is expected to have equal energy demand to the existing facility

Water And Wastewater - Unmanned facility, no restroom facility is proposed. No wastewater.

Solid Waste - Unmanned pump station, no solid waste generation.

Land Use Change -

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Unmanned facility, no off-road equipment during operation of the facility

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	6.00
tblConstructionPhase	NumDays	4.00	33.00
tblConstructionPhase	NumDays	200.00	131.00
tblConstructionPhase	NumDays	200.00	119.00
tblConstructionPhase	NumDays	10.00	3.00

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tblConstructionPhase	NumDays	20.00	30.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblGrading	AcresOfGrading	16.50	10.00
tblGrading	AcresOfGrading	3.00	2.50
tblGrading	MaterialImported	0.00	11,731.00
tblOffRoadEquipment	HorsePower	81.00	78.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00

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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	61.38	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	21.00	20.00
tblTripsAndVMT	WorkerTripNumber	21.00	20.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	1.50	0.00
tblVehicleTrips	SU_TR	1.50	0.00
tblVehicleTrips	WD_TR	1.50	0.00
tblWater	IndoorWaterUseRate	11,446,875.00	0.00
tblVehicleTrips	WD_TR	1.50	0.00

2.0 Emissions Summary

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EMWD Murrieta Booster Pump Station - Option A - Riverside-South Coast County, Annual

2.1 Overall Construction Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr							МТ	/yr							
2021	0.3153	3.0088	2.7353	5.8000e- 003	0.1612	0.1386	0.2997	0.0752	0.1342	0.2095	0.0000	507.1665	507.1665	0.0698	0.0000	508.9109
2022	0.2376	2.0511	2.1476	4.3700e- 003	0.0276	0.0936	0.1213	7.4200e- 003	0.0911	0.0985	0.0000	376.6628	376.6628	0.0518	0.0000	377.9585
Maximum	0.3153	3.0088	2.7353	5.8000e- 003	0.1612	0.1386	0.2997	0.0752	0.1342	0.2095	0.0000	507.1665	507.1665	0.0698	0.0000	508.9109

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tor	ns/yr							M	T/yr		
2021	0.3153	3.0088	2.7353	5.8000e- 003	0.0850	0.1386	0.2236	0.0353	0.1342	0.1696	0.0000	507.1660	507.1660	0.0698	0.0000	508.9104
	0.2376	2.0511	2.1476	4.3700e- 003	0.0276	0.0936	0.1213	7.4200e- 003	0.0911	0.0985	0.0000	376.6623	376.6623	0.0518	0.0000	377.9581
Maximum	0.3153	3.0088	2.7353	5.8000e- 003	0.0850	0.1386	0.2236	0.0353	0.1342	0.1696	0.0000	507.1660	507.1660	0.0698	0.0000	508.9104
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	40.33	0.00	18.08	48.26	0.00	12.95	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-24-2021	8-23-2021	1.1824	1.1824
2	8-24-2021	11-23-2021	1.4971	1.4971
3	11-24-2021	2-23-2022	1.1939	1.1939
4	2-24-2022	5-23-2022	0.8121	0.8121
5	5-24-2022	8-23-2022	0.8076	0.8076
6	8-24-2022	9-30-2022	0.1049	0.1049
		Highest	1.4971	1.4971

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e							
Category					ton	s/yr							МТ	Г/уг									
Area	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Stationary	0.0172	0.0481	0.0438	8.0000e- 005	i	2.5300e- 003	2.5300e- 003		2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057							
Waste	61	,		,	,	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Water	61	,				0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Total	0.0172	0.0481	0.0438	8.0000e- 005	0.0000	2.5300e- 003	2.5300e- 003	0.0000	2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057							

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Area	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
Stationary	0.0172	0.0481	0.0438	8.0000e- 005		2.5300e- 003	2.5300e- 003		2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.005
Waste	6;		y			0.0000	0.0000	 -	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
Water	6;		y			0.0000	0.0000	 -	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
Total	0.0172	0.0481	0.0438	8.0000e- 005	0.0000	2.5300e- 003	2.5300e- 003	0.0000	2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.005

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

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-7.0680
Total	-7.0680

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey/Staking/Flagging	Site Preparation	5/23/2021	5/31/2021	5	6	
2	Grading	Grading	6/1/2021	7/15/2021	5	33	
3	Building Construction	Building Construction	7/16/2021	1/15/2022	5	131	
4	Equipment and Pipe Installation	Building Construction	1/16/2022	6/30/2022	5	119	
5	Paving	Paving	7/16/2022	7/20/2022	5	3	
6	Demolition	Demolition	7/21/2022	8/31/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Survey/Staking/Flagging	Graders	1	8.00	187	0.41
Survey/Staking/Flagging	Rubber Tired Dozers	- 1	8.00	247	0.40
Survey/Staking/Flagging	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	- 1	4.00	9	0.56
Building Construction	Concrete/Industrial Saws	- 1	8.00	81	0.73
Building Construction	Cranes	- 1	8.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	- 1	4.00	89	0.20
Building Construction	Generator Sets	2	24.00	84	0.74
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Equipment and Pipe Installation	Concrete/Industrial Saws	1	8.00	78	0.48
Equipment and Pipe Installation	Cranes	- 1	8.00	231	0.29
Equipment and Pipe Installation	Forklifts	1	4.00	89	0.20
Equipment and Pipe Installation	Generator Sets	1	24.00	84	0.74
Equipment and Pipe Installation	Rubber Tired Loaders	: : 1	8.00	203	0.36

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Equipment and Pipe Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Equipment and Pipe Installation	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	 1	8.00	130	0.42
Paving	Paving Equipment	 1	8.00	132	0.36
Paving	Rollers	 1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Air Compressors	1	4.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	2	24.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1 1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Survey/Staking/Flaggi	3	8.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,466.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	20.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Equipment and Pipe	8	20.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	4.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	9	20.00	0.00	10.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area
Reduce Vehicle Speed on Unpaved Roads

3.2 Survey/Staking/Flagging - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0194	0.0000	0.0194	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0600e- 003	0.0564	0.0242	5.0000e- 005		2.5000e- 003	2.5000e- 003	 	2.3000e- 003	2.3000e- 003	0.0000	4.8170	4.8170	1.5600e- 003	0.0000	4.8559
Total	5.0600e- 003	0.0564	0.0242	5.0000e- 005	0.0194	2.5000e- 003	0.0219	0.0101	2.3000e- 003	0.0124	0.0000	4.8170	4.8170	1.5600e- 003	0.0000	4.8559

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3.2 Survey/Staking/Flagging - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e- 004	9.0000e- 005	9.8000e- 004	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2857	0.2857	1.0000e- 005	0.0000	0.2859
Total	1.3000e- 004	9.0000e- 005	9.8000e- 004	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2857	0.2857	1.0000e- 005	0.0000	0.2859

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	ii ii				7.5600e- 003	0.0000	7.5600e- 003	3.9300e- 003	0.0000	3.9300e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0600e- 003	0.0564	0.0242	5.0000e- 005	 	2.5000e- 003	2.5000e- 003		2.3000e- 003	2.3000e- 003	0.0000	4.8170	4.8170	1.5600e- 003	0.0000	4.8559
Total	5.0600e- 003	0.0564	0.0242	5.0000e- 005	7.5600e- 003	2.5000e- 003	0.0101	3.9300e- 003	2.3000e- 003	6.2300e- 003	0.0000	4.8170	4.8170	1.5600e- 003	0.0000	4.8559

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3.2 Survey/Staking/Flagging - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e- 004	9.0000e- 005	9.8000e- 004	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2857	0.2857	1.0000e- 005	0.0000	0.2859
Total	1.3000e- 004	9.0000e- 005	9.8000e- 004	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2857	0.2857	1.0000e- 005	0.0000	0.2859

3.3 Grading - 2021

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	Γ/yr		
Fugitive Dust					0.1054	0.0000	0.1054	0.0553	0.0000	0.0553	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0278	0.3101	0.1331	3.0000e- 004		0.0137	0.0137		0.0126	0.0126	0.0000	26.4934	26.4934	8.5700e- 003	0.0000	26.7076
Total	0.0278	0.3101	0.1331	3.0000e- 004	0.1054	0.0137	0.1191	0.0553	0.0126	0.0679	0.0000	26.4934	26.4934	8.5700e- 003	0.0000	26.7076

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3.3 Grading - 2021

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	3.6500e- 003	0.1629	0.0225	5.5000e- 004	0.0126	4.9000e- 004	0.0131	3.4700e- 003	4.7000e- 004	3.9400e- 003	0.0000	52.5922	52.5922	3.2100e- 003	0.0000	52.6725
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e- 004	5.0000e- 004	5.4100e- 003	2.0000e- 005	1.9500e- 003	1.0000e- 005	1.9700e- 003	5.2000e- 004	1.0000e- 005	5.3000e- 004	0.0000	1.5714	1.5714	4.0000e- 005	0.0000	1.5723
Total	4.3700e- 003	0.1634	0.0279	5.7000e- 004	0.0146	5.0000e- 004	0.0151	3.9900e- 003	4.8000e- 004	4.4700e- 003	0.0000	54.1636	54.1636	3.2500e- 003	0.0000	54.2448

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0411	0.0000	0.0411	0.0216	0.0000	0.0216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0278	0.3101	0.1331	3.0000e- 004		0.0137	0.0137	 	0.0126	0.0126	0.0000	26.4934	26.4934	8.5700e- 003	0.0000	26.7076
Total	0.0278	0.3101	0.1331	3.0000e- 004	0.0411	0.0137	0.0548	0.0216	0.0126	0.0342	0.0000	26.4934	26.4934	8.5700e- 003	0.0000	26.7076

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3.3 Grading - 2021

<u>Mitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	3.6500e- 003	0.1629	0.0225	5.5000e- 004	0.0126	4.9000e- 004	0.0131	3.4700e- 003	4.7000e- 004	3.9400e- 003	0.0000	52.5922	52.5922	3.2100e- 003	0.0000	52.6725
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e- 004	5.0000e- 004	5.4100e- 003	2.0000e- 005	1.9500e- 003	1.0000e- 005	1.9700e- 003	5.2000e- 004	1.0000e- 005	5.3000e- 004	0.0000	1.5714	1.5714	4.0000e- 005	0.0000	1.5723
Total	4.3700e- 003	0.1634	0.0279	5.7000e- 004	0.0146	5.0000e- 004	0.0151	3.9900e- 003	4.8000e- 004	4.4700e- 003	0.0000	54.1636	54.1636	3.2500e- 003	0.0000	54.2448

3.4 Building Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2702	2.4272	2.4906	4.5800e- 003		0.1217	0.1217		0.1186	0.1186	0.0000	393.9701	393.9701	0.0552	0.0000	395.3487
Total	0.2702	2.4272	2.4906	4.5800e- 003		0.1217	0.1217		0.1186	0.1186	0.0000	393.9701	393.9701	0.0552	0.0000	395.3487

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3.4 Building Construction - 2021 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2200e- 003	0.0471	9.0700e- 003	1.4000e- 004	3.5000e- 003	1.0000e- 004	3.6000e- 003	1.0100e- 003	9.0000e- 005	1.1000e- 003	0.0000	13.0321	13.0321	9.2000e- 004	0.0000	13.0551
Worker	6.5600e- 003	4.5900e- 003	0.0496	1.6000e- 004	0.0179	1.0000e- 004	0.0180	4.7600e- 003	1.0000e- 004	4.8500e- 003	0.0000	14.4046	14.4046	3.3000e- 004	0.0000	14.4129
Total	7.7800e- 003	0.0517	0.0586	3.0000e- 004	0.0214	2.0000e- 004	0.0216	5.7700e- 003	1.9000e- 004	5.9500e- 003	0.0000	27.4368	27.4368	1.2500e- 003	0.0000	27.4680

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.2702	2.4272	2.4906	4.5800e- 003		0.1217	0.1217		0.1186	0.1186	0.0000	393.9696	393.9696	0.0552	0.0000	395.3483
Total	0.2702	2.4272	2.4906	4.5800e- 003		0.1217	0.1217		0.1186	0.1186	0.0000	393.9696	393.9696	0.0552	0.0000	395.3483

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3.4 Building Construction - 2021 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2200e- 003	0.0471	9.0700e- 003	1.4000e- 004	3.5000e- 003	1.0000e- 004	3.6000e- 003	1.0100e- 003	9.0000e- 005	1.1000e- 003	0.0000	13.0321	13.0321	9.2000e- 004	0.0000	13.0551
Worker	6.5600e- 003	4.5900e- 003	0.0496	1.6000e- 004	0.0179	1.0000e- 004	0.0180	4.7600e- 003	1.0000e- 004	4.8500e- 003	0.0000	14.4046	14.4046	3.3000e- 004	0.0000	14.4129
Total	7.7800e- 003	0.0517	0.0586	3.0000e- 004	0.0214	2.0000e- 004	0.0216	5.7700e- 003	1.9000e- 004	5.9500e- 003	0.0000	27.4368	27.4368	1.2500e- 003	0.0000	27.4680

3.4 Building Construction - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.0204	0.1801	0.2044	3.8000e- 004		8.6600e- 003	8.6600e- 003		8.4500e- 003	8.4500e- 003	0.0000	32.5635	32.5635	4.4700e- 003	0.0000	32.6754
Total	0.0204	0.1801	0.2044	3.8000e- 004		8.6600e- 003	8.6600e- 003		8.4500e- 003	8.4500e- 003	0.0000	32.5635	32.5635	4.4700e- 003	0.0000	32.6754

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3.4 Building Construction - 2022 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/уг		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e- 005	3.6500e- 003	7.0000e- 004	1.0000e- 005	2.9000e- 004	1.0000e- 005	3.0000e- 004	8.0000e- 005	1.0000e- 005	9.0000e- 005	0.0000	1.0678	1.0678	7.0000e- 005	0.0000	1.0696
Worker	5.1000e- 004	3.4000e- 004	3.7700e- 003	1.0000e- 005	1.4800e- 003	1.0000e- 005	1.4900e- 003	3.9000e- 004	1.0000e- 005	4.0000e- 004	0.0000	1.1470	1.1470	2.0000e- 005	0.0000	1.1476
Total	6.0000e- 004	3.9900e- 003	4.4700e- 003	2.0000e- 005	1.7700e- 003	2.0000e- 005	1.7900e- 003	4.7000e- 004	2.0000e- 005	4.9000e- 004	0.0000	2.2148	2.2148	9.0000e- 005	0.0000	2.2172

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0204	0.1801	0.2044	3.8000e- 004		8.6600e- 003	8.6600e- 003		8.4500e- 003	8.4500e- 003	0.0000	32.5635	32.5635	4.4700e- 003	0.0000	32.6753
Total	0.0204	0.1801	0.2044	3.8000e- 004		8.6600e- 003	8.6600e- 003		8.4500e- 003	8.4500e- 003	0.0000	32.5635	32.5635	4.4700e- 003	0.0000	32.6753

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3.4 Building Construction - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e- 005	3.6500e- 003	7.0000e- 004	1.0000e- 005	2.9000e- 004	1.0000e- 005	3.0000e- 004	8.0000e- 005	1.0000e- 005	9.0000e- 005	0.0000	1.0678	1.0678	7.0000e- 005	0.0000	1.0696
Worker	5.1000e- 004	3.4000e- 004	3.7700e- 003	1.0000e- 005	1.4800e- 003	1.0000e- 005	1.4900e- 003	3.9000e- 004	1.0000e- 005	4.0000e- 004	0.0000	1.1470	1.1470	2.0000e- 005	0.0000	1.1476
Total	6.0000e- 004	3.9900e- 003	4.4700e- 003	2.0000e- 005	1.7700e- 003	2.0000e- 005	1.7900e- 003	4.7000e- 004	2.0000e- 005	4.9000e- 004	0.0000	2.2148	2.2148	9.0000e- 005	0.0000	2.2172

3.5 Equipment and Pipe Installation - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1531	1.3125	1.3006	2.5700e- 003		0.0606	0.0606		0.0589	0.0589	0.0000	218.5253	218.5253	0.0328	0.0000	219.3461
Total	0.1531	1.3125	1.3006	2.5700e- 003		0.0606	0.0606		0.0589	0.0589	0.0000	218.5253	218.5253	0.0328	0.0000	219.3461

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3.5 Equipment and Pipe Installation - 2022 Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1200e- 003	0.0435	8.3200e- 003	1.3000e- 004	3.4400e- 003	8.0000e- 005	3.5200e- 003	9.9000e- 004	8.0000e- 005	1.0700e- 003	0.0000	12.7068	12.7068	8.6000e- 004	0.0000	12.7282
Worker	6.0500e- 003	4.0600e- 003	0.0449	1.5000e- 004	0.0176	1.0000e- 004	0.0177	4.6800e- 003	9.0000e- 005	4.7700e- 003	0.0000	13.6494	13.6494	2.9000e- 004	0.0000	13.6567
Total	7.1700e- 003	0.0476	0.0532	2.8000e- 004	0.0211	1.8000e- 004	0.0212	5.6700e- 003	1.7000e- 004	5.8400e- 003	0.0000	26.3561	26.3561	1.1500e- 003	0.0000	26.3848

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.1531	1.3125	1.3006	2.5700e- 003		0.0606	0.0606		0.0589	0.0589	0.0000	218.5251	218.5251	0.0328	0.0000	219.3458
Total	0.1531	1.3125	1.3006	2.5700e- 003		0.0606	0.0606		0.0589	0.0589	0.0000	218.5251	218.5251	0.0328	0.0000	219.3458

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3.5 Equipment and Pipe Installation - 2022 Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1200e- 003	0.0435	8.3200e- 003	1.3000e- 004	3.4400e- 003	8.0000e- 005	3.5200e- 003	9.9000e- 004	8.0000e- 005	1.0700e- 003	0.0000	12.7068	12.7068	8.6000e- 004	0.0000	12.7282
Worker	6.0500e- 003	4.0600e- 003	0.0449	1.5000e- 004	0.0176	1.0000e- 004	0.0177	4.6800e- 003	9.0000e- 005	4.7700e- 003	0.0000	13.6494	13.6494	2.9000e- 004	0.0000	13.6567
Total	7.1700e- 003	0.0476	0.0532	2.8000e- 004	0.0211	1.8000e- 004	0.0212	5.6700e- 003	1.7000e- 004	5.8400e- 003	0.0000	26.3561	26.3561	1.1500e- 003	0.0000	26.3848

3.6 Paving - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	⁻ /yr		
	1.0700e- 003	0.0109	0.0143	2.0000e- 005		5.6000e- 004	5.6000e- 004		5.2000e- 004	5.2000e- 004	0.0000	1.9120	1.9120	6.2000e- 004	0.0000	1.9275
	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0700e- 003	0.0109	0.0143	2.0000e- 005		5.6000e- 004	5.6000e- 004		5.2000e- 004	5.2000e- 004	0.0000	1.9120	1.9120	6.2000e- 004	0.0000	1.9275

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3.6 Paving - 2022

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e- 005	5.5000e- 004	1.0000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.1602	0.1602	1.0000e- 005	0.0000	0.1604
Worker	8.0000e- 005	5.0000e- 005	5.7000e- 004	0.0000	2.2000e- 004	0.0000	2.2000e- 004	6.0000e- 005	0.0000	6.0000e- 005	0.0000	0.1721	0.1721	0.0000	0.0000	0.1721
Total	9.0000e- 005	6.0000e- 004	6.7000e- 004	0.0000	2.6000e- 004	0.0000	2.6000e- 004	7.0000e- 005	0.0000	7.0000e- 005	0.0000	0.3322	0.3322	1.0000e- 005	0.0000	0.3326

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	1.0700e- 003	0.0109	0.0143	2.0000e- 005		5.6000e- 004	5.6000e- 004		5.2000e- 004	5.2000e- 004	0.0000	1.9120	1.9120	6.2000e- 004	0.0000	1.9274
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0700e- 003	0.0109	0.0143	2.0000e- 005		5.6000e- 004	5.6000e- 004		5.2000e- 004	5.2000e- 004	0.0000	1.9120	1.9120	6.2000e- 004	0.0000	1.9274

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e- 005	5.5000e- 004	1.0000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.1602	0.1602	1.0000e- 005	0.0000	0.1604
Worker	8.0000e- 005	5.0000e- 005	5.7000e- 004	0.0000	2.2000e- 004	0.0000	2.2000e- 004	6.0000e- 005	0.0000	6.0000e- 005	0.0000	0.1721	0.1721	0.0000	0.0000	0.1721
Total	9.0000e- 005	6.0000e- 004	6.7000e- 004	0.0000	2.6000e- 004	0.0000	2.6000e- 004	7.0000e- 005	0.0000	7.0000e- 005	0.0000	0.3322	0.3322	1.0000e- 005	0.0000	0.3326

3.7 **Demolition - 2022**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.0536	0.4935	0.5585	1.0500e- 003		0.0236	0.0236		0.0230	0.0230	0.0000	90.9631	90.9631	0.0126	0.0000	91.2770
Total	0.0536	0.4935	0.5585	1.0500e- 003		0.0236	0.0236		0.0230	0.0230	0.0000	90.9631	90.9631	0.0126	0.0000	91.2770

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3.7 Demolition - 2022

<u>Unmitigated Construction Off-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.0000e- 005	1.0100e- 003	1.5000e- 004	0.0000	9.0000e- 005	0.0000	9.0000e- 005	2.0000e- 005	0.0000	3.0000e- 005	0.0000	0.3546	0.3546	2.0000e- 005	0.0000	0.3552
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5300e- 003	1.0200e- 003	0.0113	4.0000e- 005	4.4400e- 003	3.0000e- 005	4.4700e- 003	1.1800e- 003	2.0000e- 005	1.2000e- 003	0.0000	3.4410	3.4410	7.0000e- 005	0.0000	3.4429
Total	1.5500e- 003	2.0300e- 003	0.0115	4.0000e- 005	4.5300e- 003	3.0000e- 005	4.5600e- 003	1.2000e- 003	2.0000e- 005	1.2300e- 003	0.0000	3.7957	3.7957	9.0000e- 005	0.0000	3.7980

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr									MT/yr						
	0.0536	0.4935	0.5585	1.0500e- 003		0.0236	0.0236		0.0230	0.0230	0.0000	90.9630	90.9630	0.0126	0.0000	91.2769
Total	0.0536	0.4935	0.5585	1.0500e- 003		0.0236	0.0236		0.0230	0.0230	0.0000	90.9630	90.9630	0.0126	0.0000	91.2769

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3.7 Demolition - 2022 <u>Mitigated Construction Off-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	2.0000e- 005	1.0100e- 003	1.5000e- 004	0.0000	9.0000e- 005	0.0000	9.0000e- 005	2.0000e- 005	0.0000	3.0000e- 005	0.0000	0.3546	0.3546	2.0000e- 005	0.0000	0.3552
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5300e- 003	1.0200e- 003	0.0113	4.0000e- 005	4.4400e- 003	3.0000e- 005	4.4700e- 003	1.1800e- 003	2.0000e- 005	1.2000e- 003	0.0000	3.4410	3.4410	7.0000e- 005	0.0000	3.4429
Total	1.5500e- 003	2.0300e- 003	0.0115	4.0000e- 005	4.5300e- 003	3.0000e- 005	4.5600e- 003	1.2000e- 003	2.0000e- 005	1.2300e- 003	0.0000	3.7957	3.7957	9.0000e- 005	0.0000	3.7980

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Avei	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	МН
General Heavy Industry	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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5.2 Energy by Land Use - NaturalGas

<u>Mitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity <u>Unmitigated</u>

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
General Heavy Industry		0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Mitigated	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.0000					0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category		MT	-/yr	
ga.ca	i i	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e			
Land Use	Mgal	MT/yr						
General Heavy Industry	0/0	0.0000	0.0000	0.0000	0.0000			
Total		0.0000	0.0000	0.0000	0.0000			

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7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e				
Land Use	Mgal	MT/yr							
General Heavy Industry	0/0	0.0000	0.0000	0.0000	0.0000				
Total		0.0000	0.0000	0.0000	0.0000				

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e						
	MT/yr									
Mitigated	. 0.0000	0.0000	0.0000	0.0000						
Crimingatod	0.0000	0.0000	0.0000	0.0000						

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8.2 Waste by Land Use Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e				
Land Use	tons	MT/yr							
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000				
Total		0.0000	0.0000	0.0000	0.0000				

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		MT	-/yr	
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	419	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
		, ,	·	<u> </u>	* *

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type					ton	s/yr							МТ	/yr		
Emergency Generator - Diesel (300 - 600 HP)	0.02	0.0481	0.0438	8.0000e- 005		2.5300e- 003	2.5300e- 003		2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057
Total	0.0172	0.0481	0.0438	8.0000e- 005		2.5300e- 003	2.5300e- 003		2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057

11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category		M	Т	
	-7.0680	0.0000	0.0000	-7.0680

11.1 Vegetation Land Change

Vegetation Type

	Initial/Fina I	Total CO2	CH4	N2O	CO2e
	Acres				
Cropland	1.14/0	-7.0680	0.0000	0.0000	-7.0680
Total		-7.0680	0.0000	0.0000	-7.0680

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	25.50	1000sqft	0.59	25,500.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Based on applicant provided information

Off-road Equipment - Existing farmland, 1,731 CY of fill added to the site.

Off-road Equipment - Line painting of parking area and miscellaneous pavement painting

Off-road Equipment - Based on applicant provided information

Off-road Equipment - Site survey, staking and flagging for construction. Minor grubbing.

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Trips and VMT - Estimated based on construction schedule

Grading - 1,731 cubic yards of fill

Architectural Coating - Parking area equals all paved area for the project including the site and access road.

Vehicle Trips - Unmanned facility

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer products

Area Coating - Paved area assumed without line painting

Landscape Equipment - No landscape equipment

Energy Use - Proposed facility replaces an existing facility and the new facility is expected to have equal energy demand to the existing facility

Water And Wastewater - Unmanned facility, no restroom facility is proposed. No wastewater.

Solid Waste - Unmanned pump station, no solid waste generation.

Land Use Change - In

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Unmanned facility, no off-road equipment during operation of the facility

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1.00	6.00
tblConstructionPhase	NumDays	2.00	33.00
tblConstructionPhase	NumDays	100.00	131.00
tblConstructionPhase	NumDays	100.00	119.00
tblConstructionPhase	NumDays	5.00	3.00

tblOffRoadEquipment

tblOffRoadEquipment

tblOffRoadEquipment

tblOffRoadEquipment

tblOffRoadEquipment

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tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	6/7/2021	5/31/2021
tblConstructionPhase	PhaseEndDate	6/9/2021	7/15/2021
tblConstructionPhase	PhaseEndDate	10/27/2021	1/15/2022
tblConstructionPhase	PhaseEndDate	3/16/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	3/23/2022	7/20/2022
tblConstructionPhase	PhaseEndDate	6/4/2021	8/31/2022
tblConstructionPhase	PhaseStartDate	6/5/2021	5/23/2021
tblConstructionPhase	PhaseStartDate	6/8/2021	6/1/2021
tblConstructionPhase	PhaseStartDate	6/10/2021	7/16/2021
tblConstructionPhase	PhaseStartDate	10/28/2021	1/16/2022
tblConstructionPhase	PhaseStartDate	3/17/2022	7/16/2022
tblConstructionPhase	PhaseStartDate	5/23/2021	7/21/2022
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblGrading	MaterialImported	0.00	1,731.00
tblOffRoadEquipment	HorsePower	81.00	78.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

1.00

2.00

2.00

1.00

2.00

0.00

1.00

1.00

0.00

1.00

OffRoadEquipmentUnitAmount

OffRoadEquipmentUnitAmount

OffRoadEquipmentUnitAmount

OffRoadEquipmentUnitAmount

OffRoadEquipmentUnitAmount

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName	• 0.00	Survey/Staking/Flagging
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	31.62	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	4.00	8.00
tblTripsAndVMT	VendorTripNumber	4.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	11.00	10.00
tblTripsAndVMT	WorkerTripNumber	11.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	1.50	0.00

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tblVehicleTrips	SU_TR	1.50	0.00
tblVehicleTrips	WD_TR	1.50	0.00
tblWater	IndoorWaterUseRate	5,896,875.00	0.00

2.0 Emissions Summary

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2.1 Overall Construction Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					ton	s/yr							MT	/yr		
2021	0.3089	2.8676	2.6914	5.2500e- 003	0.0495	0.1381	0.1876	0.0214	0.1338	0.1552	0.0000	455.1209	455.1209	0.0669	0.0000	456.7927
2022	0.2343	2.0489	2.1233	4.2900e- 003	0.0181	0.0936	0.1117	4.8800e- 003	0.0911	0.0959	0.0000	369.2646	369.2646	0.0517	0.0000	370.5564
Maximum	0.3089	2.8676	2.6914	5.2500e- 003	0.0495	0.1381	0.1876	0.0214	0.1338	0.1552	0.0000	455.1209	455.1209	0.0669	0.0000	456.7927

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr									MT/yr						
2021	0.3089	2.8676	2.6914	5.2500e- 003	0.0294	0.1381	0.1676	0.0111	0.1338	0.1449	0.0000	455.1204	455.1204	0.0669	0.0000	456.7922
	0.2343	2.0489	2.1233	4.2900e- 003	0.0181	0.0936	0.1117	4.8800e- 003	0.0911	0.0959	0.0000	369.2642	369.2642	0.0517	0.0000	370.5560
Maximum	0.3089	2.8676	2.6914	5.2500e- 003	0.0294	0.1381	0.1676	0.0111	0.1338	0.1449	0.0000	455.1204	455.1204	0.0669	0.0000	456.7922
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	29.68	0.00	6.70	39.18	0.00	4.09	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-23-2021	8-22-2021	1.0369	1.0369
2	8-23-2021	11-22-2021	1.4940	1.4940
3	11-23-2021	2-22-2022	1.1980	1.1980
4	2-23-2022	5-22-2022	0.8093	0.8093
5	5-23-2022	8-22-2022	0.8024	0.8024
6	8-23-2022	9-30-2022	0.1180	0.1180
		Highest	1.4940	1.4940

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr									MT/yr						
Area	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0172	0.0481	0.0438	8.0000e- 005		2.5300e- 003	2.5300e- 003		2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water	• •		 			0.0000	0.0000	 	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0172	0.0481	0.0438	8.0000e- 005	0.0000	2.5300e- 003	2.5300e- 003	0.0000	2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	ns/yr							МТ	T/yr		
Area	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	0.0172	0.0481	0.0438	8.0000e- 005		2.5300e- 003	2.5300e- 003	,	2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057
Waste	5;	<u>.</u>			i	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water		<u></u>	<u></u>			0.0000	0.0000	,	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0172	0.0481	0.0438	8.0000e- 005	0.0000	2.5300e- 003	2.5300e- 003	0.0000	2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057
	ROG	N	NOx (co s						naust PM2 M2.5 Tot		CO2 NBio-	-CO2 Total	CO2 CH	H4 N2	20

3.0 Construction Detail

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Construction Phase

Percent

Reduction

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey/Staking/Flagging	Site Preparation	5/23/2021	5/31/2021	5	6	
2	Grading	Grading	6/1/2021	7/15/2021	5	33	
3	Building Construction	Building Construction	7/16/2021	1/15/2022	5	131	
4	Equipment and Pipe Installation	Building Construction	1/16/2022	6/30/2022	5	119	
5	Paving	Paving	7/16/2022	7/20/2022	5	3	
6	Demolition	Demolition	7/21/2022	8/31/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Survey/Staking/Flagging	Graders	1	8.00	187	0.41
Survey/Staking/Flagging	Rubber Tired Dozers	- 1	8.00	247	0.40
Survey/Staking/Flagging	Tractors/Loaders/Backhoes	- 	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73

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Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	 1	4.00	89	0.20
Building Construction	Generator Sets	2	24.00	84	0.74
Building Construction	Rubber Tired Loaders	 1	8.00	203	0.36
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Equipment and Pipe Installation	Concrete/Industrial Saws	1	8.00	78	0.48
Equipment and Pipe Installation	Cranes		8.00	231	0.29
Equipment and Pipe Installation	Forklifts	 1	4.00	89	0.20
Equipment and Pipe Installation	Generator Sets	 1	24.00	84	0.74
Equipment and Pipe Installation	Rubber Tired Loaders	1	8.00	203	0.36
Equipment and Pipe Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Equipment and Pipe Installation	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	 1	8.00	130	0.42
Paving	Paving Equipment	 1	8.00	132	0.36
Paving	Rollers	 1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Air Compressors	 1	4.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	 1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	2	24.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36

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Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Survey/Staking/Flaggi	3	8.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	216.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	10.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Equipment and Pipe	8	10.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	4.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	9	20.00	0.00	10.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Survey/Staking/Flagging - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0164	0.0000	0.0164	8.4200e- 003	0.0000	8.4200e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0600e- 003	0.0564	0.0242	5.0000e- 005		2.5000e- 003	2.5000e- 003	 	2.3000e- 003	2.3000e- 003	0.0000	4.8170	4.8170	1.5600e- 003	0.0000	4.8559
Total	5.0600e- 003	0.0564	0.0242	5.0000e- 005	0.0164	2.5000e- 003	0.0189	8.4200e- 003	2.3000e- 003	0.0107	0.0000	4.8170	4.8170	1.5600e- 003	0.0000	4.8559

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e- 004	9.0000e- 005	9.8000e- 004	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2857	0.2857	1.0000e- 005	0.0000	0.2859
Total	1.3000e- 004	9.0000e- 005	9.8000e- 004	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2857	0.2857	1.0000e- 005	0.0000	0.2859

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3.2 Survey/Staking/Flagging - 2021 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
l ugitive bust					6.3900e- 003	0.0000	6.3900e- 003	3.2800e- 003	0.0000	3.2800e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1	5.0600e- 003	0.0564	0.0242	5.0000e- 005		2.5000e- 003	2.5000e- 003		2.3000e- 003	2.3000e- 003	0.0000	4.8170	4.8170	1.5600e- 003	0.0000	4.8559
Total	5.0600e- 003	0.0564	0.0242	5.0000e- 005	6.3900e- 003	2.5000e- 003	8.8900e- 003	3.2800e- 003	2.3000e- 003	5.5800e- 003	0.0000	4.8170	4.8170	1.5600e- 003	0.0000	4.8559

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e- 004	9.0000e- 005	9.8000e- 004	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2857	0.2857	1.0000e- 005	0.0000	0.2859
Total	1.3000e- 004	9.0000e- 005	9.8000e- 004	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2857	0.2857	1.0000e- 005	0.0000	0.2859

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3.3 Grading - 2021
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0165	0.0000	0.0165	8.4400e- 003	0.0000	8.4400e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0278	0.3101	0.1331	3.0000e- 004		0.0137	0.0137		0.0126	0.0126	0.0000	26.4934	26.4934	8.5700e- 003	0.0000	26.7076
Total	0.0278	0.3101	0.1331	3.0000e- 004	0.0165	0.0137	0.0302	8.4400e- 003	0.0126	0.0211	0.0000	26.4934	26.4934	8.5700e- 003	0.0000	26.7076

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr MT/yr															
Hauling	5.4000e- 004	0.0240	3.3100e- 003	8.0000e- 005	1.8600e- 003	7.0000e- 005	1.9300e- 003	5.1000e- 004	7.0000e- 005	5.8000e- 004	0.0000	7.7489	7.7489	4.7000e- 004	0.0000	7.7608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e- 004	5.0000e- 004	5.4100e- 003	2.0000e- 005	1.9500e- 003	1.0000e- 005	1.9700e- 003	5.2000e- 004	1.0000e- 005	5.3000e- 004	0.0000	1.5714	1.5714	4.0000e- 005	0.0000	1.5723
Total	1.2600e- 003	0.0245	8.7200e- 003	1.0000e- 004	3.8100e- 003	8.0000e- 005	3.9000e- 003	1.0300e- 003	8.0000e- 005	1.1100e- 003	0.0000	9.3203	9.3203	5.1000e- 004	0.0000	9.3331

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3.3 Grading - 2021

<u>Mitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust	11 11 11				6.4300e- 003	0.0000	6.4300e- 003	3.2900e- 003	0.0000	3.2900e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0278	0.3101	0.1331	3.0000e- 004		0.0137	0.0137		0.0126	0.0126	0.0000	26.4934	26.4934	8.5700e- 003	0.0000	26.7076
Total	0.0278	0.3101	0.1331	3.0000e- 004	6.4300e- 003	0.0137	0.0202	3.2900e- 003	0.0126	0.0159	0.0000	26.4934	26.4934	8.5700e- 003	0.0000	26.7076

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	5.4000e- 004	0.0240	3.3100e- 003	8.0000e- 005	1.8600e- 003	7.0000e- 005	1.9300e- 003	5.1000e- 004	7.0000e- 005	5.8000e- 004	0.0000	7.7489	7.7489	4.7000e- 004	0.0000	7.7608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e- 004	5.0000e- 004	5.4100e- 003	2.0000e- 005	1.9500e- 003	1.0000e- 005	1.9700e- 003	5.2000e- 004	1.0000e- 005	5.3000e- 004	0.0000	1.5714	1.5714	4.0000e- 005	0.0000	1.5723
Total	1.2600e- 003	0.0245	8.7200e- 003	1.0000e- 004	3.8100e- 003	8.0000e- 005	3.9000e- 003	1.0300e- 003	8.0000e- 005	1.1100e- 003	0.0000	9.3203	9.3203	5.1000e- 004	0.0000	9.3331

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3.4 Building Construction - 2021 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.2702	2.4272	2.4906	4.5800e- 003		0.1217	0.1217		0.1186	0.1186	0.0000	393.9701	393.9701	0.0552	0.0000	395.3487
Total	0.2702	2.4272	2.4906	4.5800e- 003		0.1217	0.1217		0.1186	0.1186	0.0000	393.9701	393.9701	0.0552	0.0000	395.3487

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2200e- 003	0.0471	9.0700e- 003	1.4000e- 004	3.5000e- 003	1.0000e- 004	3.6000e- 003	1.0100e- 003	9.0000e- 005	1.1000e- 003	0.0000	13.0321	13.0321	9.2000e- 004	0.0000	13.0551
Worker	3.2800e- 003	2.2900e- 003	0.0248	8.0000e- 005	8.9500e- 003	5.0000e- 005	9.0100e- 003	2.3800e- 003	5.0000e- 005	2.4300e- 003	0.0000	7.2023	7.2023	1.6000e- 004	0.0000	7.2064
Total	4.5000e- 003	0.0494	0.0338	2.2000e- 004	0.0125	1.5000e- 004	0.0126	3.3900e- 003	1.4000e- 004	3.5300e- 003	0.0000	20.2344	20.2344	1.0800e- 003	0.0000	20.2615

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3.4 Building Construction - 2021 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.2702	2.4272	2.4906	4.5800e- 003		0.1217	0.1217		0.1186	0.1186	0.0000	393.9696	393.9696	0.0552	0.0000	395.3483
Total	0.2702	2.4272	2.4906	4.5800e- 003		0.1217	0.1217		0.1186	0.1186	0.0000	393.9696	393.9696	0.0552	0.0000	395.3483

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2200e- 003	0.0471	9.0700e- 003	1.4000e- 004	3.5000e- 003	1.0000e- 004	3.6000e- 003	1.0100e- 003	9.0000e- 005	1.1000e- 003	0.0000	13.0321	13.0321	9.2000e- 004	0.0000	13.0551
Worker	3.2800e- 003	2.2900e- 003	0.0248	8.0000e- 005	8.9500e- 003	5.0000e- 005	9.0100e- 003	2.3800e- 003	5.0000e- 005	2.4300e- 003	0.0000	7.2023	7.2023	1.6000e- 004	0.0000	7.2064
Total	4.5000e- 003	0.0494	0.0338	2.2000e- 004	0.0125	1.5000e- 004	0.0126	3.3900e- 003	1.4000e- 004	3.5300e- 003	0.0000	20.2344	20.2344	1.0800e- 003	0.0000	20.2615

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3.4 Building Construction - 2022 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
- On House	0.0204	0.1801	0.2044	3.8000e- 004		8.6600e- 003	8.6600e- 003		8.4500e- 003	8.4500e- 003	0.0000	32.5635	32.5635	4.4700e- 003	0.0000	32.6754
Total	0.0204	0.1801	0.2044	3.8000e- 004		8.6600e- 003	8.6600e- 003		8.4500e- 003	8.4500e- 003	0.0000	32.5635	32.5635	4.4700e- 003	0.0000	32.6754

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e- 005	3.6500e- 003	7.0000e- 004	1.0000e- 005	2.9000e- 004	1.0000e- 005	3.0000e- 004	8.0000e- 005	1.0000e- 005	9.0000e- 005	0.0000	1.0678	1.0678	7.0000e- 005	0.0000	1.0696
Worker	2.5000e- 004	1.7000e- 004	1.8900e- 003	1.0000e- 005	7.4000e- 004	0.0000	7.4000e- 004	2.0000e- 004	0.0000	2.0000e- 004	0.0000	0.5735	0.5735	1.0000e- 005	0.0000	0.5738
Total	3.4000e- 004	3.8200e- 003	2.5900e- 003	2.0000e- 005	1.0300e- 003	1.0000e- 005	1.0400e- 003	2.8000e- 004	1.0000e- 005	2.9000e- 004	0.0000	1.6413	1.6413	8.0000e- 005	0.0000	1.6434

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3.4 Building Construction - 2022 Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.0204	0.1801	0.2044	3.8000e- 004		8.6600e- 003	8.6600e- 003		8.4500e- 003	8.4500e- 003	0.0000	32.5635	32.5635	4.4700e- 003	0.0000	32.6753
Total	0.0204	0.1801	0.2044	3.8000e- 004		8.6600e- 003	8.6600e- 003		8.4500e- 003	8.4500e- 003	0.0000	32.5635	32.5635	4.4700e- 003	0.0000	32.6753

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e- 005	3.6500e- 003	7.0000e- 004	1.0000e- 005	2.9000e- 004	1.0000e- 005	3.0000e- 004	8.0000e- 005	1.0000e- 005	9.0000e- 005	0.0000	1.0678	1.0678	7.0000e- 005	0.0000	1.0696
Worker	2.5000e- 004	1.7000e- 004	1.8900e- 003	1.0000e- 005	7.4000e- 004	0.0000	7.4000e- 004	2.0000e- 004	0.0000	2.0000e- 004	0.0000	0.5735	0.5735	1.0000e- 005	0.0000	0.5738
Total	3.4000e- 004	3.8200e- 003	2.5900e- 003	2.0000e- 005	1.0300e- 003	1.0000e- 005	1.0400e- 003	2.8000e- 004	1.0000e- 005	2.9000e- 004	0.0000	1.6413	1.6413	8.0000e- 005	0.0000	1.6434

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3.5 Equipment and Pipe Installation - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1531	1.3125	1.3006	2.5700e- 003		0.0606	0.0606		0.0589	0.0589	0.0000	218.5253	218.5253	0.0328	0.0000	219.3461
Total	0.1531	1.3125	1.3006	2.5700e- 003		0.0606	0.0606		0.0589	0.0589	0.0000	218.5253	218.5253	0.0328	0.0000	219.3461

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1200e- 003	0.0435	8.3200e- 003	1.3000e- 004	3.4400e- 003	8.0000e- 005	3.5200e- 003	9.9000e- 004	8.0000e- 005	1.0700e- 003	0.0000	12.7068	12.7068	8.6000e- 004	0.0000	12.7282
Worker	3.0200e- 003	2.0300e- 003	0.0225	8.0000e- 005	8.8100e- 003	5.0000e- 005	8.8600e- 003	2.3400e- 003	5.0000e- 005	2.3800e- 003	0.0000	6.8247	6.8247	1.5000e- 004	0.0000	6.8283
Total	4.1400e- 003	0.0455	0.0308	2.1000e- 004	0.0123	1.3000e- 004	0.0124	3.3300e- 003	1.3000e- 004	3.4500e- 003	0.0000	19.5315	19.5315	1.0100e- 003	0.0000	19.5565

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3.5 Equipment and Pipe Installation - 2022 Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.1531	1.3125	1.3006	2.5700e- 003		0.0606	0.0606		0.0589	0.0589	0.0000	218.5251	218.5251	0.0328	0.0000	219.3458
Total	0.1531	1.3125	1.3006	2.5700e- 003		0.0606	0.0606		0.0589	0.0589	0.0000	218.5251	218.5251	0.0328	0.0000	219.3458

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1200e- 003	0.0435	8.3200e- 003	1.3000e- 004	3.4400e- 003	8.0000e- 005	3.5200e- 003	9.9000e- 004	8.0000e- 005	1.0700e- 003	0.0000	12.7068	12.7068	8.6000e- 004	0.0000	12.7282
Worker	3.0200e- 003	2.0300e- 003	0.0225	8.0000e- 005	8.8100e- 003	5.0000e- 005	8.8600e- 003	2.3400e- 003	5.0000e- 005	2.3800e- 003	0.0000	6.8247	6.8247	1.5000e- 004	0.0000	6.8283
Total	4.1400e- 003	0.0455	0.0308	2.1000e- 004	0.0123	1.3000e- 004	0.0124	3.3300e- 003	1.3000e- 004	3.4500e- 003	0.0000	19.5315	19.5315	1.0100e- 003	0.0000	19.5565

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3.6 Paving - 2022

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	Γ/yr		
- Cil Roda	1.0700e- 003	0.0109	0.0143	2.0000e- 005		5.6000e- 004	5.6000e- 004		5.2000e- 004	5.2000e- 004	0.0000	1.9120	1.9120	6.2000e- 004	0.0000	1.9275
	0.0000		1 1 1 1			0.0000	0.0000	1 1 1 1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0700e- 003	0.0109	0.0143	2.0000e- 005		5.6000e- 004	5.6000e- 004		5.2000e- 004	5.2000e- 004	0.0000	1.9120	1.9120	6.2000e- 004	0.0000	1.9275

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	⁻ /yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e- 005	5.5000e- 004	1.0000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.1602	0.1602	1.0000e- 005	0.0000	0.1604
Worker	8.0000e- 005	5.0000e- 005	5.7000e- 004	0.0000	2.2000e- 004	0.0000	2.2000e- 004	6.0000e- 005	0.0000	6.0000e- 005	0.0000	0.1721	0.1721	0.0000	0.0000	0.1721
Total	9.0000e- 005	6.0000e- 004	6.7000e- 004	0.0000	2.6000e- 004	0.0000	2.6000e- 004	7.0000e- 005	0.0000	7.0000e- 005	0.0000	0.3322	0.3322	1.0000e- 005	0.0000	0.3326

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3.6 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	Γ/yr		
On Road	1.0700e- 003	0.0109	0.0143	2.0000e- 005		5.6000e- 004	5.6000e- 004		5.2000e- 004	5.2000e- 004	0.0000	1.9120	1.9120	6.2000e- 004	0.0000	1.9274
	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0700e- 003	0.0109	0.0143	2.0000e- 005		5.6000e- 004	5.6000e- 004		5.2000e- 004	5.2000e- 004	0.0000	1.9120	1.9120	6.2000e- 004	0.0000	1.9274

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e- 005	5.5000e- 004	1.0000e- 004	0.0000	4.0000e- 005	0.0000	4.0000e- 005	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.1602	0.1602	1.0000e- 005	0.0000	0.1604
Worker	8.0000e- 005	5.0000e- 005	5.7000e- 004	0.0000	2.2000e- 004	0.0000	2.2000e- 004	6.0000e- 005	0.0000	6.0000e- 005	0.0000	0.1721	0.1721	0.0000	0.0000	0.1721
Total	9.0000e- 005	6.0000e- 004	6.7000e- 004	0.0000	2.6000e- 004	0.0000	2.6000e- 004	7.0000e- 005	0.0000	7.0000e- 005	0.0000	0.3322	0.3322	1.0000e- 005	0.0000	0.3326

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3.7 Demolition - 2022

<u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
	0.0536	0.4935	0.5585	1.0500e- 003		0.0236	0.0236		0.0230	0.0230	0.0000	90.9631	90.9631	0.0126	0.0000	91.2770
Total	0.0536	0.4935	0.5585	1.0500e- 003		0.0236	0.0236		0.0230	0.0230	0.0000	90.9631	90.9631	0.0126	0.0000	91.2770

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	⁻ /yr		
Hauling	2.0000e- 005	1.0100e- 003	1.5000e- 004	0.0000	9.0000e- 005	0.0000	9.0000e- 005	2.0000e- 005	0.0000	3.0000e- 005	0.0000	0.3546	0.3546	2.0000e- 005	0.0000	0.3552
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5300e- 003	1.0200e- 003	0.0113	4.0000e- 005	4.4400e- 003	3.0000e- 005	4.4700e- 003	1.1800e- 003	2.0000e- 005	1.2000e- 003	0.0000	3.4410	3.4410	7.0000e- 005	0.0000	3.4429
Total	1.5500e- 003	2.0300e- 003	0.0115	4.0000e- 005	4.5300e- 003	3.0000e- 005	4.5600e- 003	1.2000e- 003	2.0000e- 005	1.2300e- 003	0.0000	3.7957	3.7957	9.0000e- 005	0.0000	3.7980

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3.7 Demolition - 2022 <u>Mitigated Construction On-Site</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Off-Road	0.0536	0.4935	0.5585	1.0500e- 003		0.0236	0.0236		0.0230	0.0230	0.0000	90.9630	90.9630	0.0126	0.0000	91.2769
Total	0.0536	0.4935	0.5585	1.0500e- 003		0.0236	0.0236		0.0230	0.0230	0.0000	90.9630	90.9630	0.0126	0.0000	91.2769

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	2.0000e- 005	1.0100e- 003	1.5000e- 004	0.0000	9.0000e- 005	0.0000	9.0000e- 005	2.0000e- 005	0.0000	3.0000e- 005	0.0000	0.3546	0.3546	2.0000e- 005	0.0000	0.3552
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5300e- 003	1.0200e- 003	0.0113	4.0000e- 005	4.4400e- 003	3.0000e- 005	4.4700e- 003	1.1800e- 003	2.0000e- 005	1.2000e- 003	0.0000	3.4410	3.4410	7.0000e- 005	0.0000	3.4429
Total	1.5500e- 003	2.0300e- 003	0.0115	4.0000e- 005	4.5300e- 003	3.0000e- 005	4.5600e- 003	1.2000e- 003	2.0000e- 005	1.2300e- 003	0.0000	3.7957	3.7957	9.0000e- 005	0.0000	3.7980

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr					MT	/yr				
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Avei	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

	Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Γ	General Heavy Industry	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120
_														

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	-/yr	
General Heavy Industry	0	. 0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		MT	/yr	
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr					MT	/yr				
Mitigated	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	i i			i i	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							MT	/yr		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2 CH4		N2O	CO2e
Category		МТ	√yr	
Mitigated	0.0000	0.0000	0.0000	0.0000
Jgatou	0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use <u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		МТ	-/yr	
General Heavy Industry	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal		MT	-/yr	
General Heavy Industry	0/0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e			
	MT/yr						
Willigatod	0.0000	0.0000	0.0000	0.0000			
Unmitigated	0.0000	0.0000	0.0000	0.0000			

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	-/yr	
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons		МТ	-/yr	
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	419	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number
Equipment Type	Number

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EMWD Murrieta Booster Pump Station - Option B - Riverside-South Coast County, Annual

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type					ton	s/yr							MT	/yr		
Emergency Generator - Diesel (300 - 600 HP)		0.0481	0.0438	8.0000e- 005		2.5300e- 003	2.5300e- 003		2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057
Total	0.0172	0.0481	0.0438	8.0000e- 005		2.5300e- 003	2.5300e- 003		2.5300e- 003	2.5300e- 003	0.0000	7.9777	7.9777	1.1200e- 003	0.0000	8.0057

11.0 Vegetation

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EMWD Murrieta Booster Pump Station - Option A - Riverside-South Coast County, Summer

EMWD Murrieta Booster Pump Station - Option A Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	49.50	1000sqft	1.14	49,500.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Based on applicant provided information

Off-road Equipment - Existing farmland, 11,731 CY of fill added to the site.

Off-road Equipment - Line painting of parking area and miscellaneous pavement painting

Off-road Equipment - Based on applicant provided information

Off-road Equipment - Site survey, staking and flagging for construction. Minor grubbing.

Trips and VMT - Estimated based on construction schedule

Grading - 11,731 cubic yards of fill

Architectural Coating - Parking area equals all paved area for the project including the site and access road.

Vehicle Trips - Unmanned facility

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer products

Area Coating - Paved area assumed without line painting

Landscape Equipment - No landscape equipment

Energy Use - Proposed facility replaces an existing facility and the new facility is expected to have equal energy demand to the existing facility

Water And Wastewater - Unmanned facility, no restroom facility is proposed. No wastewater.

Solid Waste - Unmanned pump station, no solid waste generation.

Land Use Change -

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Unmanned facility, no off-road equipment during operation of the facility

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	6.00
tblConstructionPhase	NumDays	4.00	33.00
tblConstructionPhase	NumDays	200.00	131.00
tblConstructionPhase	NumDays	200.00	119.00
tblConstructionPhase	NumDays	10.00	3.00
tblConstructionPhase	NumDays	20.00	30.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00

tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblGrading	AcresOfGrading	16.50	10.00
tblGrading	AcresOfGrading	3.00	2.50
tblGrading	MaterialImported	0.00	11,731.00
tblOffRoadEquipment	HorsePower	81.00	78.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	61.38	0.00

tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	21.00	20.00
tblTripsAndVMT	WorkerTripNumber	21.00	20.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	1.50	0.00
tblVehicleTrips	SU_TR	1.50	0.00
tblVehicleTrips	WD_TR	1.50	0.00
tblWater	IndoorWaterUseRate	11,446,875.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) <u>Unmitigated Construction</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	lay							lb/d	ay		
2021	4.6033	40.9608	42.2747	0.0809	7.2860	2.0142	8.1480	3.5967	1.9640	4.3908	0.0000	7,704.343 4	7,704.3434	1.0275	0.0000	7,730.029 9
2022	4.2032	36.8024	41.8933	0.0808	0.3597	1.7353	2.0950	0.0967	1.6935	1.7902	0.0000	7,692.752 5	7,692.7525	1.0075	0.0000	7,717.939 5
Maximum	4.6033	40.9608	42.2747	0.0809	7.2860	2.0142	8.1480	3.5967	1.9640	4.3908	0.0000	7,704.343 4	7,704.3434	1.0275	0.0000	7,730.029 9

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	ay							lb/d	day		

2021	4.6033	40.9608	42.2747	0.0809	3.3890	2.0142	4.2510	1.5521	1.9640	2.3463	0.0000	7,704.343 4	7,704.3434	1.0275	0.0000	7,730.029 9
2022	4.2032	36.8024	41.8933	0.0808	0.3597	1.7353	2.0950	0.0967	1.6935	1.7902	0.0000	7,692.752 5	7,692.7525	1.0075	0.0000	7,717.939 5
Maximum	4.6033	40.9608	42.2747	0.0809	3.3890	2.0142	4.2510	1.5521	1.9640	2.3463	0.0000	7,704.343 4	7,704.3434	1.0275	0.0000	7,730.029 9
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893
Total	0.6881	1.9219	1.7583	3.3000e- 003	0.0000	0.1012	0.1012	0.0000	0.1012	0.1012		351.7564	351.7564	0.0493	0.0000	352.9893

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	ay							lb/c	lay		

	ROG	N	Ox C	o so	O2 Fug	itive Exh	naust PN	/110 Fug	itive Exh	aust PM2	2.5 Bio-	CO2 NBio	-CO2 Total	CO2 CH	14 N2	0 CO
Total	0.6881	1.9219	1.7583	3.3000e- 003	0.0000	0.1012	0.1012	0.0000	0.1012	0.1012		351.7564	351.7564	0.0493	0.0000	352.9893
Stationary	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey/Staking/Flagging	Site Preparation	5/23/2021	5/31/2021	5	6	
2	Grading	Grading	6/1/2021	7/15/2021	5	33	
3	Building Construction	Building Construction	7/16/2021	1/15/2022	5	131	
4	Equipment and Pipe Installation	Building Construction	1/16/2022	6/30/2022	5	119	
5	Paving	Paving	7/16/2022	7/20/2022	5	3	
6	Demolition	Demolition	7/21/2022	8/31/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Survey/Staking/Flagging	Graders	1	8.00	187	0.41

Survey/Staking/Flagging	Rubber Tired Dozers	1	8.00	247	0.40
Survey/Staking/Flagging	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	1	4.00	89	0.20
Building Construction	Generator Sets	2	24.00	84	0.74
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Equipment and Pipe Installation	Concrete/Industrial Saws	1	8.00	78	0.48
Equipment and Pipe Installation	Cranes	1	8.00	231	0.29
Equipment and Pipe Installation	Forklifts	1	4.00	89	0.20
Equipment and Pipe Installation	Generator Sets	1	24.00	84	0.74
Equipment and Pipe Installation	Rubber Tired Loaders	1	8.00	203	0.36
Equipment and Pipe Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Equipment and Pipe Installation	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Air Compressors	1	4.00	78	0.48

Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	2	24.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Survey/Staking/Flaggi	3	8.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,466.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	20.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Equipment and Pipe Installation	8	20.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	4.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	9	20.00	0.00	10.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Survey/Staking/Flagging - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/d	lay		

Fugitive Dust				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.4640	0.0000	6.4640	3.3579	0.0000	3.3579	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.0000		0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654		1,769.936	1,769.9364	0.5724	1,784.247
												4			2
Total	1.6866	18.7917	8.0652	0.0183	6.4640	0.8319	7.2959	3.3579	0.7654	4.1233		1,769.936	1,769.9364	0.5724	1,784.247
												4			2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878
Total	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					2.5209	0.0000	2.5209	1.3096	0.0000	1.3096			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	2.5209	0.8319	3.3529	1.3096	0.7654	2.0750	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878
Total	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Fugitive Dust					6.3885	0.0000	6.3885	3.3517	0.0000	3.3517			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654		1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	6.3885	0.8319	7.2204	3.3517	0.7654	4.1171		1,769.936 4	1,769.9364	0.5724		1,784.247 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5	Total						

Category					lb/c	lay						lb/c	lay	
Hauling	0.2162	9.6559	1.2698	0.0335	0.7771	0.0294	0.8065	0.2130	0.0281	0.2411	3,550.985 4	3,550.9854	0.2063	3,556.141 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326	114.1207	114.1207	2.6800e- 003	114.1878
Total	0.2634	9.6842	1.6577	0.0346	0.8975	0.0301	0.9276	0.2449	0.0288	0.2737	3,665.106 1	3,665.1061	0.2089	3,670.329 5

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					2.4915	0.0000	2.4915	1.3072	0.0000	1.3072			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	2.4915	0.8319	3.3234	1.3072	0.7654	2.0726	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.2162	9.6559	1.2698	0.0335	0.7771	0.0294	0.8065	0.2130	0.0281	0.2411		3,550.985 4	3,550.9854	0.2063		3,556.141 7
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878

Total	0.2634	9.6842	1.6577	0.0346	0.8975	0.0301	0.9276	0.2449	0.0288	0.2737	3,665.106	3,665.1061	0.2089	3,670.329
											1			5

3.4 Building Construction - 2021 <u>Unmitigated Construction On-Site</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609		7,178.142 8	7,178.1428	1.0048		7,203.262 6
Total	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609		7,178.142 8	7,178.1428	1.0048		7,203.262 6

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.7709	0.1386	2.2800e- 003	0.0586	1.5900e- 003	0.0602	0.0169	1.5200e- 003	0.0184		240.8988	240.8988	0.0160		241.2978
Worker	0.1180	0.0709	0.9699	2.8600e- 003	0.3010	1.7300e- 003	0.3028	0.0798	1.5900e- 003	0.0814		285.3018	285.3018	6.7100e- 003		285.4695
Total	0.1377	0.8417	1.1085	5.1400e- 003	0.3597	3.3200e- 003	0.3630	0.0967	3.1100e- 003	0.0998		526.2006	526.2006	0.0227		526.7673

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Off-Road	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609	0.0000	7,178.142 8	7,178.1428	1.0048		7,203.262 6
Total	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609	0.0000	7,178.142 8	7,178.1428	1.0048		7,203.262 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.7709	0.1386	2.2800e- 003	0.0586	1.5900e- 003	0.0602	0.0169	1.5200e- 003	0.0184		240.8988	240.8988	0.0160		241.2978
Worker	0.1180	0.0709	0.9699	2.8600e- 003	0.3010	1.7300e- 003	0.3028	0.0798	1.5900e- 003	0.0814		285.3018	285.3018	6.7100e- 003		285.4695
Total	0.1377	0.8417	1.1085	5.1400e- 003	0.3597	3.3200e- 003	0.3630	0.0967	3.1100e- 003	0.0998		526.2006	526.2006	0.0227		526.7673

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		

Off-Road	4.0744	36.0136	40.8692	0.0757	1.7323	1.7323	1.6906	1.6906	7,17	9.027 6	7,179.0276	0.9863	7,203.685 7
Total	4.0744	36.0136	40.8692	0.0757	1.7323	1.7323	1.6906	1.6906	l '	9.027 6	7,179.0276	0.9863	7,203.685 7

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.7251	0.1290	2.2600e- 003	0.0586	1.3400e- 003	0.0600	0.0169	1.2800e- 003	0.0182		238.8520	238.8520	0.0151		239.2302
Worker	0.1105	0.0638	0.8951	2.7600e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		274.8729	274.8729	6.0300e- 003		275.0236
Total	0.1289	0.7888	1.0241	5.0200e- 003	0.3597	3.0300e- 003	0.3627	0.0967	2.8300e- 003	0.0995		513.7249	513.7249	0.0212		514.2538

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906	0.0000	7,179.027 6	7,179.0276	0.9863		7,203.685 7
Total	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906	0.0000	7,179.027 6	7,179.0276	0.9863		7,203.685 7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.7251	0.1290	2.2600e- 003	0.0586	1.3400e- 003	0.0600	0.0169	1.2800e- 003	0.0182		238.8520	238.8520	0.0151		239.2302
Worker	0.1105	0.0638	0.8951	2.7600e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		274.8729	274.8729	6.0300e- 003		275.0236
Total	0.1289	0.7888	1.0241	5.0200e- 003	0.3597	3.0300e- 003	0.3627	0.0967	2.8300e- 003	0.0995		513.7249	513.7249	0.0212		514.2538

3.5 Equipment and Pipe Installation - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904		4,048.452 8	4,048.4528	0.6082		4,063.657 7
Total	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904		4,048.452 8	4,048.4528	0.6082		4,063.657 7

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category					lb/c	lay						lb/c	lay	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0184	0.7251	0.1290	2.2600e- 003	0.0586	1.3400e- 003	0.0600	0.0169	1.2800e- 003	0.0182	238.8520	238.8520	0.0151	239.2302
Worker	0.1105	0.0638	0.8951	2.7600e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814	274.8729	274.8729	6.0300e- 003	275.0236
Total	0.1289	0.7888	1.0241	5.0200e- 003	0.3597	3.0300e- 003	0.3627	0.0967	2.8300e- 003	0.0995	513.7249	513.7249	0.0212	514.2538

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904	0.0000	4,048.452 8	4,048.4528	0.6082		4,063.657 7
Total	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904	0.0000	4,048.452 8	4,048.4528	0.6082		4,063.657 7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.7251	0.1290	2.2600e- 003	0.0586	1.3400e- 003	0.0600	0.0169	1.2800e- 003	0.0182		238.8520	238.8520	0.0151		239.2302
Worker	0.1105	0.0638	0.8951	2.7600e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		274.8729	274.8729	6.0300e- 003		275.0236

Total	0.1289	0.7888	1.0241	5.0200e-	0.3597	3.0300e-	0.3627	0.0967	2.8300e-	0.0995	513.7249	513.7249	0.0212	514.2538
				003		003			003					

3.6 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442		1,405.069 1	1,405.0691	0.4544		1,416.429 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442		1,405.069 1	1,405.0691	0.4544		1,416.429 8

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.2000e- 003	0.3625	0.0645	1.1300e- 003	0.0293	6.7000e- 004	0.0300	8.4400e- 003	6.4000e- 004	9.0800e- 003		119.4260	119.4260	7.5600e- 003		119.6151
Worker	0.0552	0.0319	0.4476	1.3800e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		137.4364	137.4364	3.0100e- 003		137.5118
Total	0.0644	0.3944	0.5121	2.5100e- 003	0.1798	1.5100e- 003	0.1813	0.0484	1.4200e- 003	0.0498		256.8625	256.8625	0.0106		257.1269

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442	0.0000	1,405.069 1	1,405.0691	0.4544		1,416.429 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442	0.0000	1,405.069 1	1,405.0691	0.4544		1,416.429 8

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.2000e- 003	0.3625	0.0645	1.1300e- 003	0.0293	6.7000e- 004	0.0300	8.4400e- 003	6.4000e- 004	9.0800e- 003		119.4260	119.4260	7.5600e- 003		119.6151
Worker	0.0552	0.0319	0.4476	1.3800e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		137.4364	137.4364	3.0100e- 003		137.5118
Total	0.0644	0.3944	0.5121	2.5100e- 003	0.1798	1.5100e- 003	0.1813	0.0484	1.4200e- 003	0.0498		256.8625	256.8625	0.0106		257.1269

3.7 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		

Off-Road	3.5751	32.9002	37.2332	0.0701	1.5718	1.5718	1.5330	1.5330	6,684.644 2	6,684.6442	0.9227	6,707.712 3
Total	3.5751	32.9002	37.2332	0.0701	1.5718	1.5718	1.5330	1.5330	6,684.644 2	6,684.6442	0.9227	6,707.712 3

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	1.5200e- 003	0.0660	9.2400e- 003	2.5000e- 004	5.8300e- 003	1.8000e- 004	6.0100e- 003	1.6000e- 003	1.7000e- 004	1.7700e- 003		26.3410	26.3410	1.4800e- 003		26.3781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0638	0.8951	2.7600e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		274.8729	274.8729	6.0300e- 003		275.0236
Total	0.1120	0.1298	0.9044	3.0100e- 003	0.3069	1.8700e- 003	0.3087	0.0814	1.7200e- 003	0.0832		301.2139	301.2139	7.5100e- 003		301.4017

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330	0.0000	6,684.644 2	6,684.6442	0.9227		6,707.712 3
Total	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330	0.0000	6,684.644 2	6,684.6442	0.9227		6,707.712 3

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	day		
Hauling	1.5200e- 003	0.0660	9.2400e- 003	2.5000e- 004	5.8300e- 003	1.8000e- 004	6.0100e- 003	1.6000e- 003	1.7000e- 004	1.7700e- 003		26.3410	26.3410	1.4800e- 003		26.3781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0638	0.8951	2.7600e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		274.8729	274.8729	6.0300e- 003		275.0236
Total	0.1120	0.1298	0.9044	3.0100e- 003	0.3069	1.8700e- 003	0.3087	0.0814	1.7200e- 003	0.0832		301.2139	301.2139	7.5100e- 003		301.4017

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Avera	age Daily Trip I	Rate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	day		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	lay							lb/c	day		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	ay							lb/d	lay		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	419	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

I	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PIVITO	PIVITO	Total	PIVIZ.5	PIVIZ.5	Total						

Equipment Type		lb/day										lb/c	lay	
Emergency Generator - Diesel	0.6876	1.9218	1.7533	3.3000e- 003	0.10	012	0.1012		0.1012	0.1012	351.7564	351.7564	0.0493	352.9893
Total	0.6876	1.9218	1.7533	3.3000e- 003	0.10	012	0.1012		0.1012	0.1012	351.7564	351.7564	0.0493	352.9893

11.0 Vegetation

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Date: 12/20/2018 11:00 AM

EMWD Murrieta Booster Pump Station - Option B - Riverside-South Coast County, Summer

EMWD Murrieta Booster Pump Station - Option B Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	25.50	1000sqft	0.59	25,500.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Based on applicant provided information

Off-road Equipment - Existing farmland, 1,731 CY of fill added to the site.

Off-road Equipment - Line painting of parking area and miscellaneous pavement painting

Off-road Equipment - Based on applicant provided information

Off-road Equipment - Site survey, staking and flagging for construction. Minor grubbing.

Trips and VMT - Estimated based on construction schedule

Grading - 1,731 cubic yards of fill

Architectural Coating - Parking area equals all paved area for the project including the site and access road.

Vehicle Trips - Unmanned facility

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer products

Area Coating - Paved area assumed without line painting

Landscape Equipment - No landscape equipment

Energy Use - Proposed facility replaces an existing facility and the new facility is expected to have equal energy demand to the existing facility

Water And Wastewater - Unmanned facility, no restroom facility is proposed. No wastewater.

Solid Waste - Unmanned pump station, no solid waste generation.

Land Use Change - In

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Unmanned facility, no off-road equipment during operation of the facility

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1.00	6.00
tblConstructionPhase	NumDays	2.00	33.00
tblConstructionPhase	NumDays	100.00	131.00
tblConstructionPhase	NumDays	100.00	119.00
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	6/7/2021	5/31/2021
tblConstructionPhase	PhaseEndDate	6/9/2021	7/15/2021

tblConstructionPhase	PhaseEndDate	10/27/2021	1/15/2022
tblConstructionPhase	PhaseEndDate	3/16/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	3/23/2022	7/20/2022
tblConstructionPhase	PhaseEndDate	6/4/2021	8/31/2022
tblConstructionPhase	PhaseStartDate	6/5/2021	5/23/2021
tblConstructionPhase	PhaseStartDate	6/8/2021	6/1/2021
tblConstructionPhase	PhaseStartDate	6/10/2021	7/16/2021
tblConstructionPhase	PhaseStartDate	10/28/2021	1/16/2022
tblConstructionPhase	PhaseStartDate	3/17/2022	7/16/2022
tblConstructionPhase	PhaseStartDate	5/23/2021	7/21/2022
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblGrading	MaterialImported	0.00	1,731.00
tblOffRoadEquipment	HorsePower	81.00	78.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Survey/Staking/Flagging
tblOffRoadEquipment	UsageHours	4.00	8.00

tblOffRoadEquipment	UsageHours	4.00	8.00
	_		
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	1.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	31.62	0.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	4.00	8.00
tblTripsAndVMT	VendorTripNumber	4.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	11.00	10.00
tblTripsAndVMT	WorkerTripNumber	11.00	10.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	1.50	0.00
tblVehicleTrips	SU_TR	1.50	0.00
tblVehicleTrips	WD_TR	1.50	0.00
tblWater	IndoorWaterUseRate	5,896,875.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) <u>Unmitigated Construction</u>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	ay							lb/c	lay		
2021	4.5443	40.9253	41.7897	0.0794	5.5807	2.0133	6.4133	2.8382	1.9632	3.6042	0.0000	7,561.692 5	7,561.6925	1.0241	0.0000	7,587.295 2
2022	4.1480	36.7705	41.4457	0.0794	0.3069	1.7345	1.9436	0.0814	1.6927	1.7495	0.0000	7,555.316 0	7,555.3160	1.0045	0.0000	7,580.427 7
Maximum	4.5443	40.9253	41.7897	0.0794	5.5807	2.0133	6.4133	2.8382	1.9632	3.6042	0.0000	7,561.692 5	7,561.6925	1.0241	0.0000	7,587.295 2

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	? Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2021	4.5443	40.9253	41.7897	0.0794	2.2499	2.0133	3.0825	1.1264	1.9632	2.0200	0.0000	7,561.692 5	7,561.6925	1.0241	0.0000	7,587.295 2
2022	4.1480	36.7705	41.4457	0.0794	0.3069	1.7345	1.9436	0.0814	1.6927	1.7495	0.0000	7,555.316 0	7,555.3160	1.0045	0.0000	7,580.427 7
Maximum	4.5443	40.9253	41.7897	0.0794	2.2499	2.0133	3.0825	1.1264	1.9632	2.0200	0.0000	7,561.692 5	7,561.6925	1.0241	0.0000	7,587.295 2
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.57	0.00	39.86	58.63	0.00	29.59	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	ay							lb/d	lay		

Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Stationary	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012	351.7564	351.7564	0.0493		352.9893
Total	0.6879	1.9219	1.7559	3.3000e- 003	0.0000	0.1012	0.1012	0.0000	0.1012	0.1012	351.7564	351.7564	0.0493	0.0000	352.9893

Mitigated Operational

ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
				lb/d	ay							lb/d	lay		
0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893
0.6879	1.9219	1.7559	3.3000e- 003	0.0000	0.1012	0.1012	0.0000	0.1012	0.1012		351.7564	351.7564	0.0493	0.0000	352.9893
	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.6876 1.9218	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.6876 1.9218 1.7533	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.6876 1.9218 1.7533 3.3000e-003 0.6879 1.9219 1.7559 3.3000e-	0.0000	PM10 PM10 Ib/day Ib/day 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0876 1.9218 1.7533 3.3000e-003 0.0000 0.1012 0.6879 1.9219 1.7559 3.3000e-0.0000 0.0000 0.1012	O.0000	O.0000	O.0000	Description Description	No.0000	No.0000	No.0000	Note PM10 PM10 PM10 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 PM2.5 Total PM2.5 PM2.5	Note PM10

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

3.0 Construction Detail

Construction Phase

Pha Num		Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey/Staking/Flagging	Site Preparation	5/23/2021	5/31/2021	5	6	

2	Grading	Grading	6/1/2021	7/15/2021	5	33	
3	Building Construction	Building Construction	7/16/2021	1/15/2022	5	131	
4	Equipment and Pipe Installation	Building Construction	1/16/2022	6/30/2022	5	119	
5	Paving	Paving	7/16/2022	7/20/2022	5	3	
6	Demolition	Demolition	7/21/2022	8/31/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Survey/Staking/Flagging	Graders		1 8.00	187	0.41
Survey/Staking/Flagging	Rubber Tired Dozers		1 8.00	247	0.40
Survey/Staking/Flagging	Tractors/Loaders/Backhoes		1 8.00	97	0.37
Grading	Concrete/Industrial Saws		8.00	81	0.73
Grading	Graders		1 8.00	187	0.41
Grading	Rubber Tired Dozers		1 8.00	247	0.40
Grading	Tractors/Loaders/Backhoes		1 8.00	97	0.37
Building Construction	Air Compressors		1 8.00	78	0.48
Building Construction	Cement and Mortar Mixers		1 4.00	9	0.56
Building Construction	Concrete/Industrial Saws		1 8.00	81	0.73
Building Construction	Cranes		1 8.00	231	0.29
Building Construction	Excavators		1 8.00	158	0.38
Building Construction	Forklifts		1 4.00	89	0.20
Building Construction	Generator Sets		24.00	84	0.74
Building Construction	Rubber Tired Loaders		1 8.00	203	0.36
Building Construction	Skid Steer Loaders		1 8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes		1 8.00	97	0.37

Building Construction	Welders	1	8.00	46	0.45
Equipment and Pipe Installation	Concrete/Industrial Saws	1	8.00	78	0.48
Equipment and Pipe Installation	Cranes	1	8.00	231	0.29
Equipment and Pipe Installation	Forklifts	1	4.00	89	0.20
Equipment and Pipe Installation	Generator Sets	1	24.00	84	0.74
Equipment and Pipe Installation	Rubber Tired Loaders	1	8.00	203	0.36
Equipment and Pipe Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Equipment and Pipe Installation	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Air Compressors	1	4.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	2	24.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Survey/Staking/Flaggi	3	8.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	216.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	10.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Equipment and Pipe	8	10.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

Paving	4	10.00	4.00	0.00	19.80	7.90	20.00 LD_Mix	HDT_Mix	HHDT
Demolition	9	20.00	0.00	10.00	19.80	7.90	20.00 LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Survey/Staking/Flagging - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					5.4603	0.0000	5.4603	2.8062	0.0000	2.8062			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654		1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	5.4603	0.8319	6.2922	2.8062	0.7654	3.5716		1,769.936 4	1,769.9364	0.5724		1,784.247 2

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878

ľ	Total	0.0472	0.0283	0.3880	1.1500e-	0.1204	6.9000e-	0.1211	0.0319	6.4000e-	0.0326	114.1207	114.1207	2.6800e-	114.1878
					003		004			004				003	i
ı															i

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					2.1295	0.0000	2.1295	1.0944	0.0000	1.0944			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	2.1295	0.8319	2.9614	1.0944	0.7654	1.8598	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878
Total	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					0.9994	0.0000	0.9994	0.5112	0.0000	0.5112			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654		4	1,769.9364			1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	0.9994	0.8319	1.8313	0.5112	0.7654	1.2766		1,769.936 4	1,769.9364	0.5724		1,784.247 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0319	1.4227	0.1871	4.9300e- 003	0.1145	4.3300e- 003	0.1188	0.0314	4.1400e- 003	0.0355		523.2011	523.2011	0.0304		523.9609
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878
Total	0.0790	1.4510	0.5751	6.0800e- 003	0.2349	5.0200e- 003	0.2399	0.0633	4.7800e- 003	0.0681		637.3218	637.3218	0.0331		638.1486

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		

Fugitive Dust					0.3898	0.0000	0.3898	0.1994	0.0000	0.1994			0.0000		0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	0.0000	1,769.936 4	1,769.9364	0.5724	1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	0.3898	0.8319	1.2217	0.1994	0.7654	0.9648	0.0000	1,769.936 4	1,769.9364	0.5724	1,784.247 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/d	lay		
Hauling	0.0319	1.4227	0.1871	4.9300e- 003	0.1145	4.3300e- 003	0.1188	0.0314	4.1400e- 003	0.0355		523.2011	523.2011	0.0304		523.9609
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0283	0.3880	1.1500e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		114.1207	114.1207	2.6800e- 003		114.1878
Total	0.0790	1.4510	0.5751	6.0800e- 003	0.2349	5.0200e- 003	0.2399	0.0633	4.7800e- 003	0.0681		637.3218	637.3218	0.0331		638.1486

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609		7,178.142 8	7,178.1428	1.0048		7,203.262 6
Total	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609		7,178.142 8	7,178.1428	1.0048		7,203.262 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0197	0.7709	0.1386	2.2800e- 003	0.0586	1.5900e- 003	0.0602	0.0169	1.5200e- 003	0.0184		240.8988	240.8988	0.0160		241.2978
Worker	0.0590	0.0354	0.4850	1.4300e- 003	0.1505	8.7000e- 004	0.1514	0.0399	8.0000e- 004	0.0407		142.6509	142.6509	3.3500e- 003		142.7347
Total	0.0787	0.8063	0.6236	3.7100e- 003	0.2091	2.4600e- 003	0.2116	0.0568	2.3200e- 003	0.0591		383.5497	383.5497	0.0193		384.0326

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609	0.0000	7,178.142 8	7,178.1428	1.0048		7,203.262 6
Total	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609	0.0000	7,178.142 8	7,178.1428	1.0048		7,203.262 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5	Total						

Category					lb/c	lay						lb/c	lay	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0197	0.7709	0.1386	2.2800e- 003	0.0586	1.5900e- 003	0.0602	0.0169	1.5200e- 003	0.0184	240.8988	240.8988	0.0160	241.2978
Worker	0.0590	0.0354	0.4850	1.4300e- 003	0.1505	8.7000e- 004	0.1514	0.0399	8.0000e- 004	0.0407	142.6509	142.6509	3.3500e- 003	 142.7347
Total	0.0787	0.8063	0.6236	3.7100e- 003	0.2091	2.4600e- 003	0.2116	0.0568	2.3200e- 003	0.0591	383.5497	383.5497	0.0193	384.0326

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906		7,179.027 6	7,179.0276	0.9863		7,203.685 7
Total	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906		7,179.027 6	7,179.0276	0.9863		7,203.685 7

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.7251	0.1290	2.2600e- 003	0.0586	1.3400e- 003	0.0600	0.0169	1.2800e- 003	0.0182		238.8520	238.8520	0.0151		239.2302
Worker	0.0552	0.0319	0.4476	1.3800e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		137.4364	137.4364	3.0100e- 003		137.5118

Total	0.0736	0.7570	0.5765	3.6400e-	0.2091	2.1800e-	0.2113	0.0568	2.0600e-	0.0588	376.2885	376.2885	0.0181	376.7420
				003		003			003					

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906	0.0000	7,179.027 6	7,179.0276	0.9863		7,203.685 7
Total	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906	0.0000	7,179.027 6	7,179.0276	0.9863		7,203.685 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.7251	0.1290	2.2600e- 003	0.0586	1.3400e- 003	0.0600	0.0169	1.2800e- 003	0.0182		238.8520	238.8520	0.0151		239.2302
Worker	0.0552	0.0319	0.4476	1.3800e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		137.4364	137.4364	3.0100e- 003		137.5118
Total	0.0736	0.7570	0.5765	3.6400e- 003	0.2091	2.1800e- 003	0.2113	0.0568	2.0600e- 003	0.0588		376.2885	376.2885	0.0181		376.7420

3.5 Equipment and Pipe Installation - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904		4,048.452 8	4,048.4528	0.6082		4,063.657 7
Total	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904		4,048.452 8	4,048.4528	0.6082		4,063.657 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.7251	0.1290	2.2600e- 003	0.0586	1.3400e- 003	0.0600	0.0169	1.2800e- 003	0.0182		238.8520	238.8520	0.0151		239.2302
Worker	0.0552	0.0319	0.4476	1.3800e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		137.4364	137.4364	3.0100e- 003		137.5118
Total	0.0736	0.7570	0.5765	3.6400e- 003	0.2091	2.1800e- 003	0.2113	0.0568	2.0600e- 003	0.0588		376.2885	376.2885	0.0181		376.7420

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		

Off-Road	2.5735	22.0587	21.8593	0.0432	1.0188	1.0188	0.9904	0.9904	0.0000	4,048.452	4,048.4528	0.6082	4,063.657
										8			7
Total	2.5735	22.0587	21.8593	0.0432	1.0188	1.0188	0.9904	0.9904	0.0000	4,048.452	4,048.4528	0.6082	4,063.657
										8			7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0184	0.7251	0.1290	2.2600e- 003	0.0586	1.3400e- 003	0.0600	0.0169	1.2800e- 003	0.0182		238.8520	238.8520	0.0151		239.2302
Worker	0.0552	0.0319	0.4476	1.3800e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		137.4364	137.4364	3.0100e- 003		137.5118
Total	0.0736	0.7570	0.5765	3.6400e- 003	0.2091	2.1800e- 003	0.2113	0.0568	2.0600e- 003	0.0588		376.2885	376.2885	0.0181		376.7420

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Off-Road	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442		1,405.069 1	1,405.0691	0.4544		1,416.429 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442		1,405.069 1	1,405.0691	0.4544		1,416.429 8

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.2000e- 003	0.3625	0.0645	1.1300e- 003	0.0293	6.7000e- 004	0.0300	8.4400e- 003	6.4000e- 004	9.0800e- 003		119.4260	119.4260	7.5600e- 003		119.6151
Worker	0.0552	0.0319	0.4476	1.3800e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		137.4364	137.4364	3.0100e- 003		137.5118
Total	0.0644	0.3944	0.5121	2.5100e- 003	0.1798	1.5100e- 003	0.1813	0.0484	1.4200e- 003	0.0498		256.8625	256.8625	0.0106		257.1269

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442	0.0000	1,405.069 1	1,405.0691	0.4544		1,416.429 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442	0.0000	1,405.069 1	1,405.0691	0.4544		1,416.429 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5	Total						

Category					lb/d	lay						lb/d	lay	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2000e- 003	0.3625	0.0645	1.1300e- 003	0.0293	6.7000e- 004	0.0300	8.4400e- 003	6.4000e- 004	9.0800e- 003	119.4260	119.4260	7.5600e- 003	119.6151
Worker	0.0552	0.0319	0.4476	1.3800e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407	 137.4364	137.4364	3.0100e- 003	 137.5118
Total	0.0644	0.3944	0.5121	2.5100e- 003	0.1798	1.5100e- 003	0.1813	0.0484	1.4200e- 003	0.0498	256.8625	256.8625	0.0106	257.1269

3.7 **Demolition - 2022**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330		6,684.644 2	6,684.6442	0.9227		6,707.712 3
Total	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330		6,684.644 2	6,684.6442	0.9227		6,707.712 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Hauling	1.5200e- 003	0.0660	9.2400e- 003	2.5000e- 004	5.8300e- 003	1.8000e- 004	6.0100e- 003	1.6000e- 003	1.7000e- 004	1.7700e- 003		26.3410	26.3410	1.4800e- 003		26.3781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0638	0.8951	2.7600e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		274.8729	274.8729	6.0300e- 003		275.0236

Total	0.1120	0.1298	0.9044	3.0100e-	0.3069	1.8700e-	0.3087	0.0814	1.7200e-	0.0832	301.2139	301.2139	7.5100e-	301.4017
				003		003			003				003	

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330	0.0000	6,684.644 2	6,684.6442	0.9227		6,707.712 3
Total	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330	0.0000	6,684.644 2	6,684.6442	0.9227		6,707.712 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	1.5200e- 003	0.0660	9.2400e- 003	2.5000e- 004	5.8300e- 003	1.8000e- 004	6.0100e- 003	1.6000e- 003	1.7000e- 004	1.7700e- 003		26.3410	26.3410	1.4800e- 003		26.3781
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1105	0.0638	0.8951	2.7600e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		274.8729	274.8729	6.0300e- 003		275.0236
Total	0.1120	0.1298	0.9044	3.0100e- 003	0.3069	1.8700e- 003	0.3087	0.0814	1.7200e- 003	0.0832		301.2139	301.2139	7.5100e- 003		301.4017

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Avera	age Daily Trip l	Rate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	day		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

|--|

Land Use	kBTU/yr					lb/day					lb/	day		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	ay							lb/d	ay		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	,	0.0000	0.0000	0.0000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/c	ay							lb/d	lay		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Emergency Generator	1	1	50	419	0.73	Diesel
Boilers						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	I

User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type					lb/d	lay							lb/c	ay		
Emergency Generator - Diesel	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893
Total	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893

11.0 Vegetation

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Date: 12/20/2018 10:19 AM

EMWD Murrieta Booster Pump Station - Option A - Riverside-South Coast County, Winter

EMWD Murrieta Booster Pump Station - Option A Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	49.50	1000sqft	1.14	49,500.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Based on applicant provided information

Off-road Equipment - Existing farmland, 11,731 CY of fill added to the site.

Off-road Equipment - Line painting of parking area and miscellaneous pavement painting

Off-road Equipment - Based on applicant provided information

Off-road Equipment - Site survey, staking and flagging for construction. Minor grubbing.

Trips and VMT - Estimated based on construction schedule

Grading - 11,731 cubic yards of fill

Architectural Coating - Parking area equals all paved area for the project including the site and access road.

Vehicle Trips - Unmanned facility

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer products

Area Coating - Paved area assumed without line painting

Landscape Equipment - No landscape equipment

Energy Use - Proposed facility replaces an existing facility and the new facility is expected to have equal energy demand to the existing facility

Water And Wastewater - Unmanned facility, no restroom facility is proposed. No wastewater.

Solid Waste - Unmanned pump station, no solid waste generation.

Land Use Change -

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Unmanned facility, no off-road equipment during operation of the facility

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	2.00	6.00
tblConstructionPhase	NumDays	4.00	33.00
tblConstructionPhase	NumDays	200.00	131.00
tblConstructionPhase	NumDays	200.00	119.00
tblConstructionPhase	NumDays	10.00	3.00
tblConstructionPhase	NumDays	20.00	30.00
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00

tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblGrading	AcresOfGrading	16.50	10.00
tblGrading	AcresOfGrading	3.00	2.50
tblGrading	MaterialImported	0.00	11,731.00
tblOffRoadEquipment	HorsePower	81.00	78.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	8.00	24.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	61.38	0.00

tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	21.00	20.00
tblTripsAndVMT	WorkerTripNumber	21.00	20.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	1.50	0.00
tblVehicleTrips	SU_TR	1.50	0.00
tblVehicleTrips	WD_TR	1.50	0.00
tblWater	IndoorWaterUseRate	11,446,875.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) <u>Unmitigated Construction</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	lay							lb/d	ay		
2021	4.6048	40.9584	42.1033	0.0805	7.2860	2.0143	8.1484	3.5967	1.9641	4.3912	0.0000	7,666.659 1	7,666.6591	1.0283	0.0000	7,692.367 4
2022	4.2050	36.7990	41.7349	0.0804	0.3597	1.7354	2.0950	0.0967	1.6935	1.7902	0.0000	7,656.181 2	7,656.1812	1.0084	0.0000	7,681.390 5
Maximum	4.6048	40.9584	42.1033	0.0805	7.2860	2.0143	8.1484	3.5967	1.9641	4.3912	0.0000	7,666.659 1	7,666.6591	1.0283	0.0000	7,692.367 4

Mitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	lay							lb/d	ay		

2021	4.6048	40.9584	42.1033	0.0805	3.3890	2.0143	4.2514	1.5521	1.9641	2.3467	0.0000	7,666.659 1	7,666.6591	1.0283	0.0000	7,692.367 4
2022	4.2050	36.7990	41.7349	0.0804	0.3597	1.7354	2.0950	0.0967	1.6935	1.7902	0.0000	7,656.181 2	7,656.1812	1.0084	0.0000	7,681.390 5
Maximum	4.6048	40.9584	42.1033	0.0805	3.3890	2.0143	4.2514	1.5521	1.9641	2.3467	0.0000	7,666.659 1	7,666.6591	1.0283	0.0000	7,692.367 4
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	50.97	0.00	38.04	55.36	0.00	33.08	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893
Total	0.6881	1.9219	1.7583	3.3000e- 003	0.0000	0.1012	0.1012	0.0000	0.1012	0.1012		351.7564	351.7564	0.0493	0.0000	352.9893

Mitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	ay							lb/c	lay		

	ROG	N	Ox C	o so	O2 Fug	itive Exh	naust PN	/110 Fug	itive Exh	aust PM2	2.5 Bio-	CO2 NBio	-CO2 Total	CO2 CH	14 N2	0 CO
Total	0.6881	1.9219	1.7583	3.3000e- 003	0.0000	0.1012	0.1012	0.0000	0.1012	0.1012		351.7564	351.7564	0.0493	0.0000	352.9893
Stationary	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey/Staking/Flagging	Site Preparation	5/23/2021	5/31/2021	5	6	
2	Grading	Grading	6/1/2021	7/15/2021	5	33	
3	Building Construction	Building Construction	7/16/2021	1/15/2022	5	131	
4	Equipment and Pipe Installation	Building Construction	1/16/2022	6/30/2022	5	119	
5	Paving	Paving	7/16/2022	7/20/2022	5	3	
6	Demolition	Demolition	7/21/2022	8/31/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Survey/Staking/Flagging	Graders	1	8.00	187	0.41

Survey/Staking/Flagging	Rubber Tired Dozers	1	8.00	247	0.40
Survey/Staking/Flagging	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	4.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	1	4.00	89	0.20
Building Construction	Generator Sets	2	24.00	84	0.74
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Equipment and Pipe Installation	Concrete/Industrial Saws	1	8.00	78	0.48
Equipment and Pipe Installation	Cranes	1	8.00	231	0.29
Equipment and Pipe Installation	Forklifts	1	4.00	89	0.20
Equipment and Pipe Installation	Generator Sets	1	24.00	84	0.74
Equipment and Pipe Installation	Rubber Tired Loaders	1	8.00	203	0.36
Equipment and Pipe Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Equipment and Pipe Installation	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Air Compressors	1	4.00	78	0.48

Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	2	24.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Survey/Staking/Flaggi	3	8.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,466.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	20.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Equipment and Pipe Installation	8	20.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	4.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	9	20.00	0.00	10.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Survey/Staking/Flagging - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/d	lay		

Fugitive Dust					6.4640	0.0000	6.4640	3.3579	0.0000	3.3579		0.0000		0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	1,769.936	1,769.9364	0.5724	1,784.247
											4			2
Total	1.6866	18.7917	8.0652	0.0183	6.4640	0.8319	7.2959	3.3579	0.7654	4.1233	1,769.936	1,769.9364	0.5724	1,784.247
											4			2

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938
Total	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					2.5209	0.0000	2.5209	1.3096	0.0000	1.3096			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	2.5209	0.8319	3.3529	1.3096	0.7654	2.0750	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938
Total	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Fugitive Dust					6.3885	0.0000	6.3885	3.3517	0.0000	3.3517			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654		1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	6.3885	0.8319	7.2204	3.3517	0.7654	4.1171		1,769.936 4	1,769.9364	0.5724		1,784.247 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5	Total						

Category					lb/c	lay						lb/c	lay	
Hauling	0.2276	9.7213	1.4812	0.0326	0.7771	0.0298	0.8069	0.2130	0.0285	0.2416	3,461.768 1	3,461.7681	0.2256	3,467.409 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326	102.3359	102.3359	2.3200e- 003	102.3938
Total	0.2749	9.7506	1.7909	0.0336	0.8975	0.0305	0.9280	0.2449	0.0292	0.2741	3,564.103 9	3,564.1039	0.2280	3,569.803 0

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Fugitive Dust					2.4915	0.0000	2.4915	1.3072	0.0000	1.3072			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	2.4915	0.8319	3.3234	1.3072	0.7654	2.0726	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Hauling	0.2276	9.7213	1.4812	0.0326	0.7771	0.0298	0.8069	0.2130	0.0285	0.2416		3,461.768 1	3,461.7681	0.2256		3,467.409 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938

Total	0.2749	9.7506	1.7909	0.0336	0.8975	0.0305	0.9280	0.2449	0.0292	0.2741	3,564.103	3,564.1039	0.2280	3,569.803
											9			0

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609		7,178.142 8	7,178.1428	1.0048		7,203.262 6
Total	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609		7,178.142 8	7,178.1428	1.0048		7,203.262 6

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0209	0.7661	0.1627	2.2100e- 003	0.0586	1.6300e- 003	0.0603	0.0169	1.5600e- 003	0.0184		232.6766	232.6766	0.0178		233.1203
Worker	0.1183	0.0733	0.7744	2.5700e- 003	0.3010	1.7300e- 003	0.3028	0.0798	1.5900e- 003	0.0814		255.8397	255.8397	5.8000e- 003		255.9846
Total	0.1392	0.8394	0.9371	4.7800e- 003	0.3597	3.3600e- 003	0.3630	0.0967	3.1500e- 003	0.0999		488.5163	488.5163	0.0236		489.1048

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Off-Road	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609	0.0000	7,178.142 8	7,178.1428	1.0048		7,203.262 6
Total	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609	0.0000	7,178.142 8	7,178.1428	1.0048		7,203.262 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0209	0.7661	0.1627	2.2100e- 003	0.0586	1.6300e- 003	0.0603	0.0169	1.5600e- 003	0.0184		232.6766	232.6766	0.0178		233.1203
Worker	0.1183	0.0733	0.7744	2.5700e- 003	0.3010	1.7300e- 003	0.3028	0.0798	1.5900e- 003	0.0814		255.8397	255.8397	5.8000e- 003		255.9846
Total	0.1392	0.8394	0.9371	4.7800e- 003	0.3597	3.3600e- 003	0.3630	0.0967	3.1500e- 003	0.0999		488.5163	488.5163	0.0236		489.1048

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	ay							lb/c	day		

O	ff-Road	4.0744	36.0136	40.8692	0.0757	1.7323	1.7323	1.6906	1.6906	7,179.027 6	7,179.0276	0.9863	7,203.685 7
	Total	4.0744	36.0136	40.8692	0.0757	1.7323	1.7323	1.6906	1.6906	7,179.027 6	7,179.0276	0.9863	7,203.685 7

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.7195	0.1519	2.1900e- 003	0.0586	1.3800e- 003	0.0600	0.0169	1.3200e- 003	0.0182		230.6536	230.6536	0.0168		231.0745
Worker	0.1112	0.0659	0.7137	2.4700e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		246.5000	246.5000	5.2100e- 003		246.6304
Total	0.1307	0.7854	0.8657	4.6600e- 003	0.3597	3.0700e- 003	0.3627	0.0967	2.8700e- 003	0.0996		477.1536	477.1536	0.0221		477.7049

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906	0.0000	7,179.027 6	7,179.0276	0.9863		7,203.685 7
Total	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906	0.0000	7,179.027 6	7,179.0276	0.9863		7,203.685 7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.7195	0.1519	2.1900e- 003	0.0586	1.3800e- 003	0.0600	0.0169	1.3200e- 003	0.0182		230.6536	230.6536	0.0168		231.0745
Worker	0.1112	0.0659	0.7137	2.4700e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		246.5000	246.5000	5.2100e- 003		246.6304
Total	0.1307	0.7854	0.8657	4.6600e- 003	0.3597	3.0700e- 003	0.3627	0.0967	2.8700e- 003	0.0996		477.1536	477.1536	0.0221		477.7049

3.5 Equipment and Pipe Installation - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904		4,048.452 8	4,048.4528	0.6082		4,063.657 7
Total	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904		4,048.452 8	4,048.4528	0.6082		4,063.657 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5	Total						

Category					lb/d	lay						lb/c	lay	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0195	0.7195	0.1519	2.1900e- 003	0.0586	1.3800e- 003	0.0600	0.0169	1.3200e- 003	0.0182	230.6536	230.6536	0.0168	231.0745
Worker	0.1112	0.0659	0.7137	2.4700e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814	246.5000	246.5000	5.2100e- 003	 246.6304
Total	0.1307	0.7854	0.8657	4.6600e- 003	0.3597	3.0700e- 003	0.3627	0.0967	2.8700e- 003	0.0996	477.1536	477.1536	0.0221	477.7049

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904	0.0000	4,048.452 8	4,048.4528	0.6082		4,063.657 7
Total	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904	0.0000	4,048.452 8	4,048.4528	0.6082		4,063.657 7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.7195	0.1519	2.1900e- 003	0.0586	1.3800e- 003	0.0600	0.0169	1.3200e- 003	0.0182		230.6536	230.6536	0.0168		231.0745
Worker	0.1112	0.0659	0.7137	2.4700e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		246.5000	246.5000	5.2100e- 003		246.6304

Total	0.1307	0.7854	0.8657	4.6600e-	0.3597	3.0700e-	0.3627	0.0967	2.8700e-	0.0996	477.1536	477.1536	0.0221	477.7049
				003		003			003					

3.6 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442		1,405.069 1	1,405.0691	0.4544		1,416.429 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442		1,405.069 1	1,405.0691	0.4544		1,416.429 8

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.7500e- 003	0.3597	0.0760	1.0900e- 003	0.0293	6.9000e- 004	0.0300	8.4400e- 003	6.6000e- 004	9.1000e- 003		115.3268	115.3268	8.4200e- 003		115.5373
Worker	0.0556	0.0330	0.3569	1.2400e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		123.2500	123.2500	2.6100e- 003		123.3152
Total	0.0653	0.3927	0.4328	2.3300e- 003	0.1798	1.5300e- 003	0.1814	0.0484	1.4400e- 003	0.0498		238.5768	238.5768	0.0110		238.8524

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442	0.0000	1,405.069 1	1,405.0691	0.4544		1,416.429 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442	0.0000	1,405.069 1	1,405.0691	0.4544		1,416.429 8

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.7500e- 003	0.3597	0.0760	1.0900e- 003	0.0293	6.9000e- 004	0.0300	8.4400e- 003	6.6000e- 004	9.1000e- 003		115.3268	115.3268	8.4200e- 003		115.5373
Worker	0.0556	0.0330	0.3569	1.2400e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		123.2500	123.2500	2.6100e- 003		123.3152
Total	0.0653	0.3927	0.4328	2.3300e- 003	0.1798	1.5300e- 003	0.1814	0.0484	1.4400e- 003	0.0498		238.5768	238.5768	0.0110		238.8524

3.7 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		

ľ	Off-Road	3.5751	32.9002	37.2332	0.0701	1.5718	1.5718	1.5330	1.5330	6,684.644 2	6,684.6442	0.9227	6,707.712 3
	Total	3.5751	32.9002	37.2332	0.0701	1.5718	1.5718	1.5330	1.5330	6,684.644 2	6,684.6442	0.9227	6,707.712 3

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	day							lb/c	lay		
Hauling	1.6100e- 003	0.0663	0.0108	2.4000e- 004	5.8300e- 003	1.9000e- 004	6.0200e- 003	1.6000e- 003	1.8000e- 004	1.7800e- 003		25.6736	25.6736	1.6200e- 003		25.7142
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1112	0.0659	0.7137	2.4700e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		246.5000	246.5000	5.2100e- 003		246.6304
Total	0.1128	0.1322	0.7245	2.7100e- 003	0.3069	1.8800e- 003	0.3088	0.0814	1.7300e- 003	0.0832		272.1736	272.1736	6.8300e- 003		272.3445

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Off-Road	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330	0.0000	6,684.644 2	6,684.6442	0.9227		6,707.712 3
Total	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330	0.0000	6,684.644 2	6,684.6442	0.9227		6,707.712 3

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Hauling	1.6100e- 003	0.0663	0.0108	2.4000e- 004	5.8300e- 003	1.9000e- 004	6.0200e- 003	1.6000e- 003	1.8000e- 004	1.7800e- 003		25.6736	25.6736	1.6200e- 003		25.7142
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1112	0.0659	0.7137	2.4700e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		246.5000	246.5000	5.2100e- 003		246.6304
Total	0.1128	0.1322	0.7245	2.7100e- 003	0.3069	1.8800e- 003	0.3088	0.0814	1.7300e- 003	0.0832		272.1736	272.1736	6.8300e- 003		272.3445

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Avera	age Daily Trip I	Rate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/c	lay		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGa s Use	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	day		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory Unmitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	ay							lb/c	lay		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	ay							lb/d	lay		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
												1 1
												1
												1 1

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	419	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

I	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PIVITO	PIVITO	Total	PIVIZ.5	PIVIZ.5	Total						

Equipment Type					lb/day	lb/day						lb/day				
Emergency Generator - Diesel	0.6876	1.9218	1.7533	3.3000e- 003	0.10	12 0.1012	2	0.1012	0.1012		351.7564	351.7564	0.0493		352.9893	
Total	0.6876	1.9218	1.7533	3.3000e- 003	0.10	0.1012	2	0.1012	0.1012		351.7564	351.7564	0.0493		352.9893	

11.0 Vegetation

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Date: 12/20/2018 11:02 AM

EMWD Murrieta Booster Pump Station - Option B - Riverside-South Coast County, Winter

EMWD Murrieta Booster Pump Station - Option B Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	25.50	1000sqft	0.59	25,500.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern Californi	ia Edison			
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity 0 (Ib/MWhr)	006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description

Construction Phase - Based on applicant provided information

Off-road Equipment - Existing farmland, 1,731 CY of fill added to the site.

Off-road Equipment - Line painting of parking area and miscellaneous pavement painting

Off-road Equipment - Based on applicant provided information

Off-road Equipment - Site survey, staking and flagging for construction. Minor grubbing.

Trips and VMT - Estimated based on construction schedule

Grading - 1,731 cubic yards of fill

Architectural Coating - Parking area equals all paved area for the project including the site and access road.

Vehicle Trips - Unmanned facility

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - No consumer products

Area Coating - Paved area assumed without line painting

Landscape Equipment - No landscape equipment

Energy Use - Proposed facility replaces an existing facility and the new facility is expected to have equal energy demand to the existing facility

Water And Wastewater - Unmanned facility, no restroom facility is proposed. No wastewater.

Solid Waste - Unmanned pump station, no solid waste generation.

Land Use Change - In

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment - Unmanned facility, no off-road equipment during operation of the facility

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	1.00	6.00
tblConstructionPhase	NumDays	2.00	33.00
tblConstructionPhase	NumDays	100.00	131.00
tblConstructionPhase	NumDays	100.00	119.00
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	6/7/2021	5/31/2021
tblConstructionPhase	PhaseEndDate	6/9/2021	7/15/2021

tblConstructionPhase	PhaseEndDate	10/27/2021	1/15/2022
tblConstructionPhase	PhaseEndDate	3/16/2022	6/30/2022
tblConstructionPhase	PhaseEndDate	3/23/2022	7/20/2022
tblConstructionPhase	PhaseEndDate	6/4/2021	8/31/2022
tblConstructionPhase	PhaseStartDate	6/5/2021	5/23/2021
tblConstructionPhase	PhaseStartDate	6/8/2021	6/1/2021
tblConstructionPhase	PhaseStartDate	6/10/2021	7/16/2021
tblConstructionPhase	PhaseStartDate	10/28/2021	1/16/2022
tblConstructionPhase	PhaseStartDate	3/17/2022	7/16/2022
tblConstructionPhase	PhaseStartDate	5/23/2021	7/21/2022
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblGrading	MaterialImported	0.00	1,731.00
tblOffRoadEquipment	HorsePower	81.00	78.00
tblOffRoadEquipment	LoadFactor	0.73	0.48
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Survey/Staking/Flagging
tblOffRoadEquipment	UsageHours	4.00	8.00

UsageHours	4.00	8.00
Osager louis	4.00	6.00
UsageHours	6.00	4.00
UsageHours	6.00	4.00
UsageHours	7.00	8.00
UsageHours	7.00	8.00
UsageHours	1.00	8.00
UsageHours	1.00	8.00
UsageHours	8.00	4.00
UsageHours	6.00	8.00
UsageHours	6.00	8.00
UsageHours	7.00	8.00
UrbanizationLevel	Urban	Rural
SolidWasteGenerationRate	31.62	0.00
HaulingTripNumber	0.00	10.00
VendorTripNumber	4.00	8.00
VendorTripNumber	4.00	8.00
VendorTripNumber	0.00	4.00
WorkerTripNumber	11.00	10.00
WorkerTripNumber	11.00	10.00
WorkerTripNumber	23.00	20.00
ST_TR	1.50	0.00
SU_TR	1.50	0.00
WD_TR	1.50	0.00
IndoorWaterUseRate	5,896,875.00	0.00
	UsageHours VsageHours UsageHours VrbanizationLevel SolidWasteGenerationRate HaulingTripNumber VendorTripNumber VendorTripNumber WorkerTripNumber WorkerTripNumber WorkerTripNumber ST_TR SU_TR SU_TR WD_TR	UsageHours 6.00 UsageHours 7.00 UsageHours 1.00 UsageHours 1.00 UsageHours 6.00 UsageHours 6.00 UsageHours 7.00 UbageHours 7.00 UrbanizationLevel Urban SolidWasteGenerationRate 31.62 HaulingTripNumber 0.00 VendorTripNumber 4.00 VendorTripNumber 0.00 WorkerTripNumber 11.00 WorkerTripNumber 11.00 WorkerTripNumber 23.00 ST_TR 1.50 WD_TR 1.50

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission) <u>Unmitigated Construction</u>

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	ay							lb/c	lay		
2021	4.5457	40.9218	41.7161	0.0792	5.5807	2.0134	6.4133	2.8382	1.9633	3.6042	0.0000	7,538.739 3	7,538.7393	1.0254	0.0000	7,564.375 1
2022	4.1495	36.7660	41.3780	0.0792	0.3069	1.7345	1.9437	0.0814	1.6927	1.7495	0.0000	7,532.931 2	7,532.9312	1.0058	0.0000	7,558.075 4
Maximum	4.5457	40.9218	41.7161	0.0792	5.5807	2.0134	6.4133	2.8382	1.9633	3.6042	0.0000	7,538.739 3	7,538.7393	1.0254	0.0000	7,564.375 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	? Total CO2	CH4	N2O	CO2e
Year					lb/d	day							lb/d	day		
2021	4.5457	40.9218	41.7161	0.0792	2.2499	2.0134	3.0825	1.1264	1.9633	2.0201	0.0000	7,538.739 3	7,538.7393	1.0254	0.0000	7,564.375 1
2022	4.1495	36.7660	41.3780	0.0792	0.3069	1.7345	1.9437	0.0814	1.6927	1.7495	0.0000	7,532.931 2	7,532.9312	1.0058	0.0000	7,558.075 3
Maximum	4.5457	40.9218	41.7161	0.0792	2.2499	2.0134	3.0825	1.1264	1.9633	2.0201	0.0000	7,538.739 3	7,538.7393	1.0254	0.0000	7,564.375 1
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	56.57	0.00	39.86	58.63	0.00	29.59	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	ay							lb/d	lay		

Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Stationary	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012	351.7564	351.7564	0.0493		352.9893
Total	0.6879	1.9219	1.7559	3.3000e- 003	0.0000	0.1012	0.1012	0.0000	0.1012	0.1012	351.7564	351.7564	0.0493	0.0000	352.9893

Mitigated Operational

ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
				lb/d	ay							lb/d	lay		
0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893
0.6879	1.9219	1.7559	3.3000e- 003	0.0000	0.1012	0.1012	0.0000	0.1012	0.1012		351.7564	351.7564	0.0493	0.0000	352.9893
	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.6876 1.9218	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.6876 1.9218 1.7533	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.6876 1.9218 1.7533 3.3000e-003 0.6879 1.9219 1.7559 3.3000e-	0.0000	PM10 PM10 Ib/day Ib/day 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0876 1.9218 1.7533 3.3000e-003 0.0000 0.1012 0.6879 1.9219 1.7559 3.3000e-0.0000 0.0000 0.1012	O.0000	O.0000	O.0000	Description Description	No.0000	No.0000	No.0000	Note PM10 PM10 PM10 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 Total PM2.5 PM2.5 PM2.5 Total PM2.5 PM2.5	Note PM10

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

3.0 Construction Detail

Construction Phase

Pha Num		Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Survey/Staking/Flagging	Site Preparation	5/23/2021	5/31/2021	5	6	

2	Grading	Grading	6/1/2021	7/15/2021	5	33	
3	Building Construction	Building Construction	7/16/2021	1/15/2022	5	131	
4	Equipment and Pipe Installation	Building Construction	1/16/2022	6/30/2022	5	119	
5	Paving	Paving	7/16/2022	7/20/2022	5	3	
6	Demolition	Demolition	7/21/2022	8/31/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Survey/Staking/Flagging	Graders		1 8.00	187	0.41
Survey/Staking/Flagging	Rubber Tired Dozers		1 8.00	247	0.40
Survey/Staking/Flagging	Tractors/Loaders/Backhoes		1 8.00	97	0.37
Grading	Concrete/Industrial Saws		8.00	81	0.73
Grading	Graders		1 8.00	187	0.41
Grading	Rubber Tired Dozers		1 8.00	247	0.40
Grading	Tractors/Loaders/Backhoes		1 8.00	97	0.37
Building Construction	Air Compressors		1 8.00	78	0.48
Building Construction	Cement and Mortar Mixers		1 4.00	9	0.56
Building Construction	Concrete/Industrial Saws		1 8.00	81	0.73
Building Construction	Cranes		1 8.00	231	0.29
Building Construction	Excavators		1 8.00	158	0.38
Building Construction	Forklifts		1 4.00	89	0.20
Building Construction	Generator Sets		24.00	84	0.74
Building Construction	Rubber Tired Loaders		1 8.00	203	0.36
Building Construction	Skid Steer Loaders		1 8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes		1 8.00	97	0.37

Building Construction	Welders	1	8.00	46	0.45
Equipment and Pipe Installation	Concrete/Industrial Saws	1	8.00	78	0.48
Equipment and Pipe Installation	Cranes	1	8.00	231	0.29
Equipment and Pipe Installation	Forklifts	1	4.00	89	0.20
Equipment and Pipe Installation	Generator Sets	1	24.00	84	0.74
Equipment and Pipe Installation	Rubber Tired Loaders	1	8.00	203	0.36
Equipment and Pipe Installation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Equipment and Pipe Installation	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Air Compressors	1	4.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	8.00	231	0.29
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	2	24.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Survey/Staking/Flaggi	3	8.00	0.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	216.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	12	10.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT
Equipment and Pipe	8	10.00	8.00	0.00	19.80	7.90	20.00	LD_Mix	HDT_Mix	HHDT

Paving	4	10.00	4.00	0.00	19.80	7.90	20.00 LD_Mix	HDT_Mix	HHDT
Demolition	9	20.00	0.00	10.00	19.80	7.90	20.00 LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Survey/Staking/Flagging - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Fugitive Dust					5.4603	0.0000	5.4603	2.8062	0.0000	2.8062			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654		1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	5.4603	0.8319	6.2922	2.8062	0.7654	3.5716		1,769.936 4	1,769.9364	0.5724		1,784.247 2

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938

Total	0.0473	0.0293	0.3098	1.0300e-	0.1204	6.9000e-	0.1211	0.0319	6.4000e-	0.0326	102.3359	102.3359	2.3200e-	102.3938
				003		004			004				003	

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Fugitive Dust					2.1295	0.0000	2.1295	1.0944	0.0000	1.0944			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	2.1295	0.8319	2.9614	1.0944	0.7654	1.8598	0.0000	1,769.936 4	1,769.9364	0.5724		1,784.247 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938
Total	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Fugitive Dust					0.9994	0.0000	0.9994	0.5112	0.0000	0.5112			0.0000			0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654		1,769.936 4	1,769.9364	0.5724		1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	0.9994	0.8319	1.8313	0.5112	0.7654	1.2766		1,769.936 4	1,769.9364	0.5724		1,784.247 2

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0335	1.4323	0.2182	4.8100e- 003	0.1145	4.4000e- 003	0.1189	0.0314	4.2000e- 003	0.0356		510.0559	510.0559	0.0333		510.8870
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938
Total	0.0809	1.4617	0.5280	5.8400e- 003	0.2349	5.0900e- 003	0.2400	0.0633	4.8400e- 003	0.0682		612.3918	612.3918	0.0356		613.2809

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		

Fugitive Dust					0.3898	0.0000	0.3898	0.1994	0.0000	0.1994			0.0000		0.0000
Off-Road	1.6866	18.7917	8.0652	0.0183		0.8319	0.8319		0.7654	0.7654	0.0000	1,769.936 4	1,769.9364	0.5724	1,784.247 2
Total	1.6866	18.7917	8.0652	0.0183	0.3898	0.8319	1.2217	0.1994	0.7654	0.9648	0.0000	1,769.936 4	1,769.9364	0.5724	1,784.247 2

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/d	lay		
Hauling	0.0335	1.4323	0.2182	4.8100e- 003	0.1145	4.4000e- 003	0.1189	0.0314	4.2000e- 003	0.0356		510.0559	510.0559	0.0333		510.8870
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0473	0.0293	0.3098	1.0300e- 003	0.1204	6.9000e- 004	0.1211	0.0319	6.4000e- 004	0.0326		102.3359	102.3359	2.3200e- 003		102.3938
Total	0.0809	1.4617	0.5280	5.8400e- 003	0.2349	5.0900e- 003	0.2400	0.0633	4.8400e- 003	0.0682		612.3918	612.3918	0.0356		613.2809

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609		7,178.142 8	7,178.1428	1.0048		7,203.262 6
Total	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609		7,178.142 8	7,178.1428	1.0048		7,203.262 6

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0209	0.7661	0.1627	2.2100e- 003	0.0586	1.6300e- 003	0.0603	0.0169	1.5600e- 003	0.0184		232.6766	232.6766	0.0178		233.1203
Worker	0.0592	0.0366	0.3872	1.2800e- 003	0.1505	8.7000e- 004	0.1514	0.0399	8.0000e- 004	0.0407		127.9199	127.9199	2.9000e- 003		127.9923
Total	0.0800	0.8028	0.5499	3.4900e- 003	0.2091	2.5000e- 003	0.2116	0.0568	2.3600e- 003	0.0592		360.5964	360.5964	0.0207		361.1126

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609	0.0000	7,178.142 8	7,178.1428	1.0048		7,203.262 6
Total	4.4656	40.1190	41.1662	0.0757		2.0109	2.0109		1.9609	1.9609	0.0000	7,178.142 8	7,178.1428	1.0048		7,203.262 6

Mitigated Construction Off-Site

PM10 PM10 Total PM2.5 PM2.5 Total	I	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
						PM10	PM10	Total	PM2.5	PM2.5	Total						

Category					lb/c	lay						lb/c	lay	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0209	0.7661	0.1627	2.2100e- 003	0.0586	1.6300e- 003	0.0603	0.0169	1.5600e- 003	0.0184	232.6766	232.6766	0.0178	233.1203
Worker	0.0592	0.0366	0.3872	1.2800e- 003	0.1505	8.7000e- 004	0.1514	0.0399	8.0000e- 004	0.0407	127.9199	127.9199	2.9000e- 003	 127.9923
Total	0.0800	0.8028	0.5499	3.4900e- 003	0.2091	2.5000e- 003	0.2116	0.0568	2.3600e- 003	0.0592	360.5964	360.5964	0.0207	361.1126

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906		7,179.027 6	7,179.0276	0.9863		7,203.685 7
Total	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906		7,179.027 6	7,179.0276	0.9863		7,203.685 7

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.7195	0.1519	2.1900e- 003	0.0586	1.3800e- 003	0.0600	0.0169	1.3200e- 003	0.0182		230.6536	230.6536	0.0168		231.0745
Worker	0.0556	0.0330	0.3569	1.2400e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		123.2500	123.2500	2.6100e- 003		123.3152

Total	0.0751	0.7524	0.5088	3.4300e-	0.2091	2.2200e-	0.2114	0.0568	2.1000e-	0.0589	353.9036	353.9036	0.0195	354.3897
				003		003			003					

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Off-Road	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906	0.0000	7,179.027 6	7,179.0276	0.9863		7,203.685 7
Total	4.0744	36.0136	40.8692	0.0757		1.7323	1.7323		1.6906	1.6906	0.0000	7,179.027 6	7,179.0276	0.9863		7,203.685 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.7195	0.1519	2.1900e- 003	0.0586	1.3800e- 003	0.0600	0.0169	1.3200e- 003	0.0182		230.6536	230.6536	0.0168		231.0745
Worker	0.0556	0.0330	0.3569	1.2400e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		123.2500	123.2500	2.6100e- 003		123.3152
Total	0.0751	0.7524	0.5088	3.4300e- 003	0.2091	2.2200e- 003	0.2114	0.0568	2.1000e- 003	0.0589		353.9036	353.9036	0.0195		354.3897

3.5 Equipment and Pipe Installation - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	lay		
Off-Road	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904		4,048.452 8	4,048.4528	0.6082		4,063.657 7
Total	2.5735	22.0587	21.8593	0.0432		1.0188	1.0188		0.9904	0.9904		4,048.452 8	4,048.4528	0.6082		4,063.657 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.7195	0.1519	2.1900e- 003	0.0586	1.3800e- 003	0.0600	0.0169	1.3200e- 003	0.0182		230.6536	230.6536	0.0168		231.0745
Worker	0.0556	0.0330	0.3569	1.2400e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		123.2500	123.2500	2.6100e- 003		123.3152
Total	0.0751	0.7524	0.5088	3.4300e- 003	0.2091	2.2200e- 003	0.2114	0.0568	2.1000e- 003	0.0589		353.9036	353.9036	0.0195		354.3897

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		

Off-Road	2.5735	22.0587	21.8593	0.0432	1.0188	1.0188	0.9904	0.9904	0.0000	4,048.452	4,048.4528	0.6082	4,063.657
										8			7
Total	2.5735	22.0587	21.8593	0.0432	1.0188	1.0188	0.9904	0.9904	0.0000	4,048.452	4,048.4528	0.6082	4,063.657
										8			7

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0195	0.7195	0.1519	2.1900e- 003	0.0586	1.3800e- 003	0.0600	0.0169	1.3200e- 003	0.0182		230.6536	230.6536	0.0168		231.0745
Worker	0.0556	0.0330	0.3569	1.2400e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		123.2500	123.2500	2.6100e- 003		123.3152
Total	0.0751	0.7524	0.5088	3.4300e- 003	0.2091	2.2200e- 003	0.2114	0.0568	2.1000e- 003	0.0589		353.9036	353.9036	0.0195		354.3897

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Off-Road	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442		1,405.069 1	1,405.0691	0.4544		1,416.429 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442		1,405.069 1	1,405.0691	0.4544		1,416.429 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.7500e- 003	0.3597	0.0760	1.0900e- 003	0.0293	6.9000e- 004	0.0300	8.4400e- 003	6.6000e- 004	9.1000e- 003		115.3268	115.3268	8.4200e- 003		115.5373
Worker	0.0556	0.0330	0.3569	1.2400e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407		123.2500	123.2500	2.6100e- 003		123.3152
Total	0.0653	0.3927	0.4328	2.3300e- 003	0.1798	1.5300e- 003	0.1814	0.0484	1.4400e- 003	0.0498		238.5768	238.5768	0.0110		238.8524

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	lay		
Off-Road	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442	0.0000	1,405.069 1	1,405.0691	0.4544		1,416.429 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7161	7.2381	9.5282	0.0145		0.3741	0.3741		0.3442	0.3442	0.0000	1,405.069 1	1,405.0691	0.4544		1,416.429 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5	Total						

Category					lb/d	day						lb/d	lay	
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7500e- 003	0.3597	0.0760	1.0900e- 003	0.0293	6.9000e- 004	0.0300	8.4400e- 003	6.6000e- 004	9.1000e- 003	115.3268	115.3268	8.4200e- 003	 115.5373
Worker	0.0556	0.0330	0.3569	1.2400e- 003	0.1505	8.4000e- 004	0.1514	0.0399	7.8000e- 004	0.0407	 123.2500	123.2500	2.6100e- 003	 123.3152
Total	0.0653	0.3927	0.4328	2.3300e- 003	0.1798	1.5300e- 003	0.1814	0.0484	1.4400e- 003	0.0498	238.5768	238.5768	0.0110	238.8524

3.7 **Demolition - 2022**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Off-Road	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330		6,684.644 2	6,684.6442	0.9227		6,707.712 3
Total	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330		6,684.644 2	6,684.6442	0.9227		6,707.712 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/c	lay		
Hauling	1.6100e- 003	0.0663	0.0108	2.4000e- 004	5.8300e- 003	1.9000e- 004	6.0200e- 003	1.6000e- 003	1.8000e- 004	1.7800e- 003		25.6736	25.6736	1.6200e- 003		25.7142
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1112	0.0659	0.7137	2.4700e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		246.5000	246.5000	5.2100e- 003		246.6304

ı	Total	0.1128	0.1322	0.7245	2.7100e-	0.3069	1.8800e-	0.3088	0.0814	1.7300e-	0.0832	272.1736	272.1736	6.8300e-	272.3445
					003		003			003				003	

Mitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330	0.0000	6,684.644 2	6,684.6442	0.9227		6,707.712 3
Total	3.5751	32.9002	37.2332	0.0701		1.5718	1.5718		1.5330	1.5330	0.0000	6,684.644 2	6,684.6442	0.9227		6,707.712 3

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/c	lay		
Hauling	1.6100e- 003	0.0663	0.0108	2.4000e- 004	5.8300e- 003	1.9000e- 004	6.0200e- 003	1.6000e- 003	1.8000e- 004	1.7800e- 003		25.6736	25.6736	1.6200e- 003		25.7142
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1112	0.0659	0.7137	2.4700e- 003	0.3010	1.6900e- 003	0.3027	0.0798	1.5500e- 003	0.0814		246.5000	246.5000	5.2100e- 003		246.6304
Total	0.1128	0.1322	0.7245	2.7100e- 003	0.3069	1.8800e- 003	0.3088	0.0814	1.7300e- 003	0.0832		272.1736	272.1736	6.8300e- 003		272.3445

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Avera	age Daily Trip l	Rate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.538064	0.038449	0.184390	0.122109	0.017402	0.005339	0.017250	0.067711	0.001365	0.001213	0.004629	0.000959	0.001120

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas <u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/d	day							lb/d	day		
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

|--|

Land Use	kBTU/yr					lb/day	lb/day								
General Heavy Industry	0	0.0000	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000	0.00	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory Unmitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e			
SubCategory	lb/day											lb/day							
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000			

Landscaping	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	ay							lb/d	ay		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Emergency Generator	1	1	50	419	0.73	Diesel
Boilers						
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type	ĺ

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type					lb/d	lay							lb/c	lay		
Emergency Generator - Diesel	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893
Total	0.6876	1.9218	1.7533	3.3000e- 003		0.1012	0.1012		0.1012	0.1012		351.7564	351.7564	0.0493		352.9893

11.0 Vegetation

APPENDIX B

Biological Resources

APPENDIX B-1

Species Compendium

Species Compendium

PLANTS

EUDICOTS

VASCULAR SPECIES

ASTERACEAE—SUNFLOWER FAMILY

* Oncosiphon piluliferum—stinknet

BRASSICACEAE—MUSTARD FAMILY

- * Hirschfeldia incana—shortpod mustard
- * Sisymbrium irio—London rocket

CHENOPODIACEAE—GOOSEFOOT FAMILY

* Salsola australis—Russian thistle

GERANIACEAE—GERANIUM FAMILY

* Erodium cicutarium—redstem stork's bill

MONOCOTS

VASCULAR SPECIES

POACEAE—GRASS FAMILY

- * Bromus diandrus—ripgut brome
- * Bromus madritensis—compact brome
- * Schismus barbatus—common Mediterranean grass

WILDLIFE

BIRD

FINCHES

FRINGILLIDAE—FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus—house finch

JAYS, MAGPIES, AND CROWS

CORVIDAE—CROWS AND JAYS

Corvus corax—common raven



(Continued)

PIGEONS AND DOVES

COLUMBIDAE—PIGEONS AND DOVES

* Columa livia—rock pigeon (rock dove)

* signifies introduced (non-native) species



APPENDIX B-2

CNDDB Species List



California Department of Fish and Wildlife California Natural Diversity Database



Query Criteria:

Quad IS (Perris (3311772) OR Steele Peak (3311773) OR Lakeview (3311771) OR Riverside East (3311783) OR Sunnymead (3311782) OR El Casco (3311781) OR Lake Elsinore (3311763) OR Romoland (3311762) OR Winchester (3311761))

Species	Element Code	Endoral Status	State Status	Clobal Baul-	State Deal-	Rare Plant Rank/CDFW SSC or FP
Species Abronia villosa var. aurita	PDNYC010P1	Federal Status None	State Status None	Global Rank G5T2?	State Rank	1B.1
chaparral sand-verbena	1 DIVI COTOL 1	None	NOTIC	0312:	32	10.1
Accipiter cooperii	ABNKC12040	None	None	G5	S4	WL
Cooper's hawk	7.2					
Agelaius tricolor	ABPBXB0020	None	Candidate	G2G3	S1S2	SSC
tricolored blackbird			Endangered			
Aimophila ruficeps canescens southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
Allium munzii	PMLIL022Z0	Endangered	Threatened	G1	S1	1B.1
Munz's onion		3				
Ambrosia pumila	PDAST0C0M0	Endangered	None	G1	S1	1B.1
San Diego ambrosia						
Aquila chrysaetos	ABNKC22010	None	None	G5	S3	FP
golden eagle						
Arenaria paludicola	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
marsh sandwort						
Arizona elegans occidentalis	ARADB01017	None	None	G5T2	S2	SSC
California glossy snake						
Artemisiospiza belli belli	ABPBX97021	None	None	G5T2T3	S3	WL
Bell's sage sparrow						
Asio otus	ABNSB13010	None	None	G5	S3?	SSC
long-eared owl						
Aspidoscelis hyperythra orange-throated whiptail	ARACJ02060	None	None	G5	S2S3	WL
Aspidoscelis tigris stejnegeri coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
Astragalus pachypus var. jaegeri Jaeger's milk-vetch	PDFAB0F6G1	None	None	G4T2	S2	1B.1
Athene cunicularia	ABNSB10010	None	None	G4	S3	SSC
burrowing owl						
Atriplex coronata var. notatior San Jacinto Valley crownscale	PDCHE040C2	Endangered	None	G4T1	S1	1B.1
Atriplex parishii	PDCHE041D0	None	None	G1G2	S1	1B.1
Parish's brittlescale						
Atriplex serenana var. davidsonii	PDCHE041T1	None	None	G5T1	S1	1B.2
Davidson's saltscale						
Berberis nevinii	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
Nevin's barberry		•	-			



California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Endoral Status	State Status	Global Bank	State Benk	Rare Plant Rank/CDFW
Species Bombus crotchii	Element Code	Federal Status None	State Status None	Global Rank G3G4	State Rank S1S2	SSC or FP
Crotch bumble bee	IID 1 W24460	None	None	G3G4	5152	
	ICBRA03030	Threatened	None	G3	S3	
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	rnieatened	None	GS	33	
Brodiaea filifolia	DMI II OCOFO	Throotoned	Endongorod	62	S2	1B.1
thread-leaved brodiaea	PMLIL0C050	Threatened	Endangered	G2	52	18.1
Buteo regalis	ABNKC19120	None	None	G4	S3S4	WL
ferruginous hawk	ABINKC 19120	None	None	G4	3334	VVL
•	DMI II 0D450	None	None	G4	S4	4.2
Calochortus plummerae Plummer's mariposa-lily	PMLIL0D150	None	None	G4	54	4.2
Calochortus weedii var. intermedius	DMI II 0D4 I4	None	None	G3G4T2	S2	1B.2
intermediate mariposa-lily	PMLIL0D1J1	None	None	G3G412	52	16.2
Campylorhynchus brunneicapillus sandiegensis coastal cactus wren	ABPBG02095	None	None	G5T3Q	S3	SSC
Caulanthus simulans	PDBRA0M0H0	None	None	G4	S4	4.2
Payson's jewelflower						
Centromadia pungens ssp. laevis	PDAST4R0R4	None	None	G3G4T2	S2	1B.1
smooth tarplant						
Ceratochrysis longimala	IIHYM71040	None	None	G1	S1	
Desert cuckoo wasp						
Chaetodipus californicus femoralis	AMAFD05021	None	None	G5T3	S3	SSC
Dulzura pocket mouse						
Chaetodipus fallax fallax	AMAFD05031	None	None	G5T3T4	S3S4	SSC
northwestern San Diego pocket mouse						
Charadrius alexandrinus nivosus	ABNNB03031	Threatened	None	G3T3	S2S3	SSC
western snowy plover						
Chloropyron maritimum ssp. maritimum	PDSCR0J0C2	Endangered	Endangered	G4?T1	S1	1B.2
salt marsh bird's-beak						
Chorizanthe parryi var. parryi	PDPGN040J2	None	None	G3T2	S2	1B.1
Parry's spineflower						
Chorizanthe polygonoides var. longispina long-spined spineflower	PDPGN040K1	None	None	G5T3	S3	1B.2
Cicindela senilis frosti	IICOL02121	None	None	G2G3T1T3	S1	
senile tiger beetle						
Circus cyaneus	ABNKC11010	None	None	G5	S3	SSC
northern harrier						
Coccyzus americanus occidentalis	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
western yellow-billed cuckoo						
Coleonyx variegatus abbotti	ARACD01031	None	None	G5T3T4	S1S2	SSC
San Diego banded gecko						
Crotalus ruber	ARADE02090	None	None	G4	S3	SSC
red-diamond rattlesnake						



California Department of Fish and Wildlife California Natural Diversity Database



Overtice	Flores (O .	Fadanal Ot 4	01-1- 6: :	Obstacl 5	01-1- 5	Rare Plant Rank/CDFW
Species Picture and the second	Element Code	Federal Status	State Status	Global Rank	State Rank	SSC or FP
Diadophis punctatus modestus	ARADB10015	None	None	G5T2T3	S2?	
San Bernardino ringneck snake	AMA ED004 40	Fadanasad	Mana	0574	04	000
Dipodomys merriami parvus	AMAFD03143	Endangered	None	G5T1	S1	SSC
San Bernardino kangaroo rat	AMA ED00400	Fadanasad	Theresian	00	00	
Dipodomys stephensi Stephens' kangaroo rat	AMAFD03100	Endangered	Threatened	G2	S2	
,	DDDCNOV040	Fadanasad	Forder wared	04	04	4D 4
Dodecahema leptoceras	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
slender-horned spineflower	DDCD A 0.40LIO	Nama	Nama	00	00	4D 0
Dudleya multicaulis	PDCRA040H0	None	None	G2	S2	1B.2
many-stemmed dudleya	4 DA II (0 0 0 0 4 0			0.5	0004	-
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
				0	0.4	
Empidonax traillii extimus	ABPAE33043	Endangered	Endangered	G5T2	S1	
southwestern willow flycatcher						
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Eremophila alpestris actia	ABPAT02011	None	None	G5T4Q	S4	WL
California horned lark						
Eumops perotis californicus	AMACD02011	None	None	G5T4	S3S4	SSC
western mastiff bat						
Euphydryas editha quino	IILEPK405L	Endangered	None	G5T1T2	S1S2	
quino checkerspot butterfly						
Haliaeetus leucocephalus	ABNKC10010	Delisted	Endangered	G5	S3	FP
bald eagle						
Harpagonella palmeri	PDBOR0H010	None	None	G4	S3	4.2
Palmer's grapplinghook						
Icteria virens	ABPBX24010	None	None	G5	S3	SSC
yellow-breasted chat						
Lanius Iudovicianus	ABPBR01030	None	None	G4	S4	SSC
loggerhead shrike						
Lasiurus xanthinus	AMACC05070	None	None	G5	S3	SSC
western yellow bat						
Lasthenia glabrata ssp. coulteri	PDAST5L0A1	None	None	G4T2	S2	1B.1
Coulter's goldfields						
Laterallus jamaicensis coturniculus California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
Lepidium virginicum var. robinsonii	PDBRA1M114	None	None	G5T3	S3	4.3
Robinson's pepper-grass						
Lepus californicus bennettii	AMAEB03051	None	None	G5T3T4	S3S4	SSC
San Diego black-tailed jackrabbit						
Myosurus minimus ssp. apus	PDRAN0H031	None	None	G5T2Q	S2	3.1
little mousetail						



California Department of Fish and Wildlife California Natural Diversity Database



		-	.		0 - .	Rare Plant Rank/CDFW
Species	Element Code	Federal Status	State Status	Global Rank	State Rank	SSC or FP
Nama stenocarpa	PDHYD0A0H0	None	None	G4G5	S1S2	2B.2
mud nama	DDDI MOCOOO	Thurstoned	Mana	00	00	4D 4
Navarretia fossalis	PDPLM0C080	Threatened	None	G2	S2	1B.1
spreading navarretia	ANA 5500044	Maria	Mana	057074	0004	000
Neotoma lepida intermedia San Diego desert woodrat	AMAFF08041	None	None	G5T3T4	S3S4	SSC
•	AMACD04010	None	None	G4	S 3	SSC
Nyctinomops femorosaccus pocketed free-tailed bat	AMACD04010	None	None	G4	33	330
Onychomys torridus ramona	AMAFF06022	None	None	G5T3	S 3	SSC
southern grasshopper mouse	AIVIAI-1 00022	None	None	G515	33	330
Orcuttia californica	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
California Orcutt grass	1 WII OA40010	Liluarigered	Lindarigered	01	31	10.1
Perognathus longimembris brevinasus	AMAFD01041	None	None	G5T1T2	S1S2	SSC
Los Angeles pocket mouse	AWAI DOTOTT	None	NOTIC	031112	0102	000
Phrynosoma blainvillii	ARACF12100	None	None	G3G4	S3S4	SSC
coast horned lizard	7					
Plegadis chihi	ABNGE02020	None	None	G5	S3S4	WL
white-faced ibis						
Polioptila californica californica	ABPBJ08081	Threatened	None	G4G5T2Q	S2	SSC
coastal California gnatcatcher						
Salvadora hexalepis virgultea	ARADB30033	None	None	G5T4	S2S3	SSC
coast patch-nosed snake						
Senecio aphanactis	PDAST8H060	None	None	G3	S2	2B.2
chaparral ragwort						
Setophaga petechia	ABPBX03010	None	None	G5	S3S4	SSC
yellow warbler						
Sidalcea neomexicana	PDMAL110J0	None	None	G4	S2	2B.2
salt spring checkerbloom						
Socalchemmis icenoglei	ILARAU7020	None	None	G1	S1	
Icenogle's socalchemmis spider						
Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
Southern Coast Live Oak Riparian Forest						
Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	
Southern Cottonwood Willow Riparian Forest						
Southern Riparian Scrub Southern Riparian Scrub	CTT63300CA	None	None	G3	\$3.2	
Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
Southern Sycamore Alder Riparian Woodland						
Spea hammondii	AAABF02020	None	None	G3	S3	SSC
western spadefoot						
Spinus lawrencei	ABPBY06100	None	None	G3G4	S3S4	
Lawrence's goldfinch						



California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Streptocephalus woottoni	ICBRA07010	Endangered	None	G1G2	S1S2	,
Riverside fairy shrimp						
Symphyotrichum defoliatum	PDASTE80C0	None	None	G2	S2	1B.2
San Bernardino aster						
Taxidea taxus	AMAJF04010	None	None	G5	S3	SSC
American badger						
Texosporium sancti-jacobi	NLTEST7980	None	None	G3	S1	3
woven-spored lichen						
Tortula californica	NBMUS7L090	None	None	G2G3	S2S3	1B.2
California screw moss						
Trichocoronis wrightii var. wrightii	PDAST9F031	None	None	G4T3	S1	2B.1
Wright's trichocoronis						
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S2	
least Bell's vireo						
Xanthocephalus xanthocephalus	ABPBXB3010	None	None	G5	S3	SSC
yellow-headed blackbird						

Record Count: 90

APPENDIX B-3

CNPS Inventory List



Plant List

Inventory of Rare and Endangered Plants

43 matches found. Click on scientific name for details

Search Criteria

Found in Quads 3311783, 3311782, 3311781, 3311773, 3311772, 3311771, 3311763 3311762 and 3311761;

Q Modify Search Criteria **Export to Excel** Modify Columns Modify Sort Modify So

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Abronia villosa var. aurita	chaparral sand- verbena	Nyctaginaceae	annual herb	(Jan)Mar- Sep	1B.1	S2	G5T2T3
Allium marvinii	Yucaipa onion	Alliaceae	perennial bulbiferous herb	Apr-May	1B.2	S1	G1
Allium munzii	Munz's onion	Alliaceae	perennial bulbiferous herb	Mar-May	1B.1	S1	G1
Ambrosia pumila	San Diego ambrosia	Asteraceae	perennial rhizomatous herb	Apr-Oct	1B.1	S1	G1
Artemisia palmeri	San Diego sagewort	Asteraceae	perennial deciduous shrub	(Feb)May- Sep	4.2	S3?	G3?
<u>Astragalus pachypus var.</u> j <u>aegeri</u>	Jaeger's bush milk- vetch	Fabaceae	perennial shrub	Dec-Jun	1B.1	S2	G4T2
Atriplex coronata var. notatior	San Jacinto Valley crownscale	Chenopodiaceae	annual herb	Apr-Aug	1B.1	S1	G4T1
Atriplex pacifica	South Coast saltscale	Chenopodiaceae	annual herb	Mar-Oct	1B.2	S2	G4
<u>Atriplex parishii</u>	Parish's brittlescale	Chenopodiaceae	annual herb	Jun-Oct	1B.1	S1	G1G2
Atriplex serenana var. davidsonii	Davidson's saltscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2	S1	G5T1
Berberis nevinii	Nevin's barberry	Berberidaceae	perennial evergreen shrub	(Feb)Mar- Jun	1B.1	S1	G1
Brodiaea filifolia	thread-leaved brodiaea	Themidaceae	perennial bulbiferous herb	Mar-Jun	1B.1	S2	G2
Calochortus plummerae	Plummer's mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	4.2	S4	G4
Calochortus weedii var. intermedius	intermediate mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	1B.2	S2	G3G4T2
Carex buxbaumii	Buxbaum's sedge	Cyperaceae	perennial rhizomatous herb	Mar-Aug	4.2	S3	G5
Caulanthus simulans	Payson's jewelflower	Brassicaceae	annual herb	(Feb)Mar- May(Jun)	4.2	S4	G4
<u>Centromadia pungens ssp.</u> <u>laevis</u>	smooth tarplant	Asteraceae	annual herb	Apr-Sep	1B.1	S2	G3G4T2
Chorizanthe leptotheca	Peninsular spineflower	Polygonaceae	annual herb	May-Aug	4.2	S3	G3

8/14/2018		CNPS Inv	ventory Results				
<u>Chorizanthe parryi var.</u> <u>parryi</u>	Parry's spineflower	Polygonaceae	annual herb	Apr-Jun	1B.1	S2	G3T2
<u>Chorizanthe polygonoides</u> <u>var. longispina</u>	long-spined spineflower	Polygonaceae	annual herb	Apr-Jul	1B.2	S3	G5T3
Convolvulus simulans	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	4.2	S4	G4
<u>Cylindropuntia californica</u> var. californica	snake cholla	Cactaceae	perennial stem succulent	Apr-May	1B.1	S1	G3T2
Deinandra paniculata	paniculate tarplant	Asteraceae	annual herb	(Mar)Apr- Nov	4.2	S4	G4
Dodecahema leptoceras	slender-horned spineflower	Polygonaceae	annual herb	Apr-Jun	1B.1	S1	G1
<u>Dudleya multicaulis</u>	many-stemmed dudleya	Crassulaceae	perennial herb	Apr-Jul	1B.2	S2	G2
<u>Harpagonella palmeri</u>	Palmer's grapplinghook	Boraginaceae	annual herb	Mar-May	4.2	S3	G4
Hordeum intercedens	vernal barley	Poaceae	annual herb	Mar-Jun	3.2	S3S4	G3G4
Juglans californica	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	4.2	S3	G3
<u>Lasthenia glabrata ssp.</u> <u>coulteri</u>	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	1B.1	S2	G4T2
Lepechinia cardiophylla	heart-leaved pitcher sage	Lamiaceae	perennial shrub	Apr-Jul	1B.2	S2S3	G3
<u>Lepidium virginicum var.</u> <u>robinsonii</u>	Robinson's pepper- grass	Brassicaceae	annual herb	Jan-Jul	4.3	S3	G5T3
<u>Microseris douglasii ssp.</u> <u>platycarpha</u>	small-flowered microseris	Asteraceae	annual herb	Mar-May	4.2	S4	G4T4
Myosurus minimus ssp. apus	little mousetail	Ranunculaceae	annual herb	Mar-Jun	3.1	S2	G5T2Q
Nama stenocarpa	mud nama	Namaceae	annual / perennial herb	Jan-Jul	2B.2	S1S2	G4G5
Navarretia fossalis	spreading navarretia	Polemoniaceae	annual herb	Apr-Jun	1B.1	S2	G2
Orcuttia californica	California Orcutt grass	Poaceae	annual herb	Apr-Aug	1B.1	S1	G1
Romneya coulteri	Coulter's matilija poppy	Papaveraceae	perennial rhizomatous herb	Mar- Jul(Aug)	4.2	S4	G4
Senecio aphanactis	chaparral ragwort	Asteraceae	annual herb	Jan- Apr(May)	2B.2	S2	G3
Sidalcea neomexicana	salt spring checkerbloom	Malvaceae	perennial herb	Mar-Jun	2B.2	S2	G4
<u>Symphyotrichum</u> <u>defoliatum</u>	San Bernardino aster	Asteraceae	perennial rhizomatous herb	Jul-Nov	1B.2	S2	G2
Texosporium sancti-jacobi	woven-spored lichen	Caliciaceae	crustose lichen (terricolous)		3	S1	G3
Tortula californica	California screw- moss	Pottiaceae	moss		1B.2	S2S3	G2G3
<u>Trichocoronis wrightii var.</u> <u>wrightii</u>	Wright's trichocoronis	Asteraceae	annual herb	May-Sep	2B.1	S1	G4T3

California Native Plant Society, Rare Plant Program. 2018. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 14 August 2018].

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<u>The California Lichen Society</u>
<u>California Natural Diversity Database</u>

The Jepson Flora Project

The Consortium of California Herbaria

Questions and Comments

rareplants@cnps.org

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APPENDIX C

Cultural Resources Letter Report



MAIN OFFICE 605 THIRD STREET ENCINITAS, CALIFORNIA 92024 T 760.942.5147 T 800.450.1818 F 760.632.0164

August 24, 2018 9469

Dustin Christensen Eastern Municipal Water District 2270 Trumble Road Perris, California 92507

> Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

Dear Mr. Christensen:

This letter documents the cultural resources inventory conducted by Dudek for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project (Project), located in the City of Perris, California (Figure 1). The Eastern Municipal Water District (EMWD) is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). In accordance with CEQA, Dudek performed a Phase I cultural resources inventory for the entire one (1) acre parcel proposed as Option A (APN 330-140-019) (Figure 1).

CEQA refers to sequential stages of cultural resources investigation, including Inventory, Evaluation, and Mitigation. Phase I (Inventory), Phase II (evaluation), and Phase III (Mitigation) are vernacular terms used in the cultural resources industry. For the purposes of this report, Phase I is defined as an inventory and includes archival research for archaeological resources and Tribal Cultural Resources, pedestrian surveys, and other inventory methods.

With permission from the Eastern Information Center (EIC), Dudek conducted an in-house records search of EIC data for the proposed residential development and a one-mile radius around the Project. The records search did not identify any cultural resources within the Project area; however, six (6) cultural resources were identified within the one-mile radius. A Native American Heritage Commission (NAHC) Sacred Lands File search did not indicate the presence of any Native American cultural resources within the Project area. An intensive pedestrian survey of the Project area did not identify any cultural resources.

Based on the current condition of the Project area and the negative survey and records search results, archaeological monitoring is not recommended for the proposed Project. The Project is unlikely to impact undiscovered cultural resources and no mitigation is necessary. In the unlikely event that cultural resources are encountered during exposure of subsurface soils,

Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

ground-disturbing work should be immediately halted in the area and a qualified archaeologist should be retained to evaluate the resources.

PROJECT DESCRIPTION AND LOCATION

The Option A Project site is approximately 1 acre and is located 3,800 feet north of the intersection of Murrieta Road and Ethanac Road, within land characterized as tilled agricultural fields in the City of Perris, California (Figure 1). The Option A Project site falls within Section 8 of Township 5 South, Range 3 West of the Perris, California 7.5-minute U.S. Geological Survey Topographic Quadrangle Map (Figure 1).

The EMWD is proposing to replace the Murrieta Road Booster Pump Station (BPS) in order to meet current and future hydraulic performance criteria, as well as implement improvements in safety, efficiency, reliability, operations, and maintenance. The Murrieta Road Booster Pump Station (BPS) Replacement Project (Option A) encompasses a 1.0 acre parcel (APN 330-140-019) (Figure 1).

REGULATORY FRAMEWORK

The California Register of Historic Resources (Public Resources Code section 5020 et seq.)

In California, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code section 5020.1(j)). In 1992, the California legislature established CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California Public Resources Code section 5024.1(a)). A resource is eligible for listing in the CRHR if the State Historical Resources Commission determines that it is a significant resource and that it meets any of the following National Register of Historic Places (NRHP) criteria:

- Associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Associated with the lives of persons important in our past.
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

• Has yielded, or may be likely to yield, information important in prehistory or history.

(California Public Resources Code section 5024.1(c).) Resources less than 50 years old are not considered for listing in the CRHR, but may be considered if it can be demonstrated that sufficient time has passed to understand the historical importance of the resource (see 14 CCR, section 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing on the NRHP are automatically listed on the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys. The State Historic Preservation Officer maintains the CRHR.

Native American Historic Cultural Sites (California Public Resources Code section 5097 et seq.)

State law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and establishes the NRHC to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act makes it a misdemeanor punishable by up to 1 year in jail to deface or destroy an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes.

California Environmental Quality Act

As described further below, the following CEQA statutes and CEQA Guidelines are of relevance to the analysis of archaeological and historic resources:

Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

- 1. California Public Resources Code section 21083.2(g): Defines "unique archaeological resource."
- 2. California Public Resources Code section 21084.1 and CEQA Guidelines section 15064.5(a): Define historical resources. In addition, CEQA Guidelines section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource;" it also defines the circumstances when a project would materially impair the significance of a historical resource.
- 3. California Public Resources Code section 5097.98 and CEQA Guidelines section 15064.5(e): Set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
- 4. California Public Resources Code sections 21083.2(b)-(c) and CEQA Guidelines section 15126.4: Provide information regarding the mitigation framework for archaeological and historic resources, including options of preservation-in-place mitigation measures; preservation-in-place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (California Public Resources Code section 21084.1; CEQA Guidelines section 15064.5(b)). If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of California Public Resources Code section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code section 21084.1; CEQA Guidelines section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (California Public Resources Code section 21084.1; CEQA Guidelines section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines section 15064.5(b)(1); California Public Resources Code section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project:

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- 1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
- 2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- 3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA.

See Section 1.2.2, below for a discussion of the CEQA guidelines for determining significance and mitigating impacts to unique archaeological resources.

California Health and Safety Code section 7050.5

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. Health and Safety Code section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County coroner has examined the remains (section 7050.5b). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (section 7050.5c). The NAHC will notify the Most Likely Descendant. With the permission of the landowner, the Most Likely Descendant may inspect the site of discovery. The inspection must be completed within 24 hours of notification of the Most Likely Descendant by the NAHC. The Most Likely Descendant may recommend means of treating or disposing of, with appropriate dignity, the human remains and items associated with Native Americans.

Assembly Bill 52

California Assembly Bill 52, which took effect July 1, 2015, establishes a consultation process between California Native American Tribes and lead agencies in order to address tribal concerns regarding project impacts and mitigation to "tribal cultural resources" (TCR). Public Resources



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Code section 21074(a) defines TCRs and states that a project that has the potential to cause a substantial adverse change to a TCR is a project that may have an adverse effect on the environment. A TCR is defined as a site, feature, place, cultural landscape, sacred place, and object with cultural value to a California Native American tribe that is either:

- 1. listed or eligible for listing in the CRHR or a local register of historical resources, or
- 2. determined by a lead agency to be a TCR.

City of Perris General Plan

The City of Perris General Plan (2005) Conservation Element has one (1) goal (Goal IV - Cultural Resources) and one (1) Policy (Policy IV.A) for the protection of historical, archaeological, and paleontological sites. Policy IV.A which states the following concerning the protection of cultural resources:

"Comply with state and federal regulations and ensure preservation of the significant historical, archaeological and paleontological resources"

City of Perris General Plan (2005) has seven (7) implementation measures that address the preservation of historic resources. The implementation measures listed are:

- IV.A.1 For all private and public projects involving new construction, substantial grading, or demolition, including infrastructure and other public service facilities, staff shall require appropriate surveys and necessary site investigations in conjunction with the earliest environmental document prepared for a project.
- IV.A.2 For all projects subject to CEQA, applicants will be required to submit results of an archaeological records search request through the Eastern Information Center at the University of California, riverside.
- IV.A.3 Require Phase I surveys for all projects located in areas that have not previously been surveyed for archaeological or historical resources, or which lie near areas where archaeological and/or historic site have been recorded.
- IV.A.4 In Area 1 and Area 2 shown on the Paleontological Sensitivity Map, paleontological monitoring of all projects requiring

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subsurface excavations will be required once any excavation begins. In Areas 4 and 5, paleontological monitoring will be required once subsurface excavations reach five feet in depth, with monitoring levels reduced if appropriate, at the discretion of a certified Project Paleontologist.

- IV.A.5 Identify and collect previous surveys of cultural resources. Evaluate such resource and consider preparation of a comprehensive citywide inventory of cultural resources including both prehistoric sites and man-made resources.
- IV.A.6 Create an archive for the City wherein all surveys, collections, records and reports can be centrally located.
- IV.A.7 Strengthen efforts and coordinate the management of cultural resources with other agencies and private organizations.

METHODS

Archival Research

Dudek consulted historic topographic maps (earliest available from 1954) and aerial photographs to understand development of the Project site and surrounding properties. Historic aerial photographs and maps of the Project area were available for 1966, 1967, 1978, 1997, 2002, 2005, 2009, 2010, 2012 and 2014 (NETR 2018). The historic photographs and topographic maps reveal that the Project site has been utilized for agricultural purposes since 1966. No historic structures are located within the Project area.

Records Search

Dudek conducted a California Historical Resources Information Systems (CHRIS) records search of the Project area and a one-mile radius at the Eastern Information Center (EIC) on August 10, 2018 (Confidential Appendix A). The records search results indicate that 17 previous cultural resources studies have been conducted within one-mile of the Project area; two (2) previous studies intersect a portion of the Project area (Table 1). These studies include an archaeological survey and assessment reports.

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Table 1
Previous Technical Studies within One-Mile of the Project area

Report Number	Authors	Date	Title
		Intersects	s the Project Area
RI-00527	Barker, James P.	1979	Environmental Impact Evaluation: An Archaeological Assessment of Tentative Parcel 13405, South of Perris, Riverside County, California
RI-08101	McCormick, Steven and Sherri Gust	2006	Archaeological and Paleontological Resources Assessment Report For The Green Valley Project, Perris, California
		Outside o	f the Project Area
RI-00205	Wilmoth, Stan C.	1976	Environmental Impact Evaluation: Archaeological Survey of Case Water Systems Addition, Eastern Municipal Water District, Riverside County, California.
RI-02468	Romano, Melinda	1989	An Archaeological Assessment of Approximately 160 Area of Land, Proposed by Gary Cook Corporation, Located South of the City of Perris, Riverside County, California
RI-03189	Peak and Associates and Brian F. Mooney Associates	1990	Cultural Resources Assessment of AT&T Proposed San Bernardino to San Diego Fiber Optic Cable, San Bernardino, Riverside, and San Diego Counties, California
RI-04404	Jones and tokes Associates, Inc.	2000	Final Cultural Resources Inventory Report for the Williams Communications, Inc, Fiber Optic Cable System Installation Project, Riverside to San Diego, California Vol I-IV
RI-04894	Hoover, Anna M. and William R. Gillean	2005	A Phase 1 Archaeological Survey Report on APNs 327-220-005 & -012 TO -016, +68 Acres, City of Perris, Riverside County, California
RI-04974	Hoover, Anna M. and William R. Gillean	2005	A Phase 1 Archaeological Survey Report for the Phase II Perris Desalter Transmission Pipeline Project, Near Perris, Riverside County, California
RI-05241	Dice, Michael, and Marnie Vianna	2004	An Archaeological Survey and Paleontological Records Search on APN #330-210-003, -008 AND #300-210-004, -005, North Sun City, County of riverside, CA
RI-06018	Bai Tang, Michael Hogan, Mariam Dahdul, and Daniel Ballester	2003	Historical/Archaeological Resources Survey Report: Menifee Valley North Drainage Facilities Project, In and Near the Communities of Romoland and Homeland, Riverside County, California
RI-06355	Tang, Bai, Michael Hogan, and Matthew Wetherbee	2004	Historical/Archaeological Resources Survey Report, The Eagle Crest Project, Tentative Tract Map 34037, Near the City of Perris, Riverside County, California
RI-06581	Michael Hogan	2006	Letter Report: Addendum to Historical/Archaeological Resources Survey Report, The Eagle Crest Project, Tentative Tract Map 34037, Near the City of Perris, Riverside County, California
RI-06744	Riordan Goodwin and Jodi L. Dalton	2006	Cultural Resources Assessment: Goetz Road Project, City Of Perris, Riverside County, California
RI-06888	Lerch, Michael K. and Gray, Marlesa A.	2006	Cultural Resources Assessment of the Valley-Ivyglen Transmission Line Project, Riverside County, California

Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

Table 1
Previous Technical Studies within One-Mile of the Project area

Report Number	Authors	Date	Title
RI-07119	Kyle, Carolyn E.	2007	Cultural Resource Survey for the Murrieta Road Widening Project, Riverside County, California
RI-08396	Joan George and Dennid McDougall	2010	Cultural Resources Report for the Sun City Force Main and Recycled Water Project, Riverside County, California.
RI-08771	Bai 'Tom' Tang	2010	Preliminary Historical/Archaeological Resource Study Southern California Regional Rail Authority (SCRRA) Perris Valley Line Positive Train Control (PTC) Project

EIC records did not identify any cultural resources within the Project area; however, six (6) cultural resources are located within the one-mile search radius (Confidential Appendix A). Of the six previously recorded cultural resources, two (2) are lithic scatters, two (2) are prehistoric isolates, one (1) is a railroad segment, and one (1) is a historic age ranch/farm structure foundations site (Confidential Appendix A). No historic addresses are located within the Project area or within the one-mile radius.

Table 2
Cultural Resources within One-Mile of the Project area

Primary Number	Trinomial	Туре	Description
P-33-004178	CA-RIV-004178	Prehistoric	Sparse Lithic Scatter
P-33-004179	CA-RIV-004179	Prehistoric	Lithic Scatter
P-33-007705	-	Historic	Yoder Ranch; Foundations/structure pads
P-33-012822	-	Prehistoric	Isolate (mortar fragments)
P-33-015743	CA-RIV-008196	Historic	Railroad Segment (San Jacinto Valley Railroad)
P-33-024206	-	Prehistoric	Isolate (lithic core)

NAHC Correspondence

As the lead agency under CEQA, the EMWD is responsible for performing formal government-to-government consultation with Native American Tribes under California Assembly Bill 52. EMWD sent AB 52 notification letters to NAHC listed Tribes on February 17, 2016. Agua Caliente Band of Cahuilla Indians responded on February 24, 2016 and stated that the Project is not located within the Tribe's Traditional Use Area. On February 25, 2016, Rincon Band of Luiseno Indians responded that they did not have additional information regarding the Project and deferred to Pechanga Band of Luiseno Indians and Soboba Band of Luiseno Indians. On

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March 17, 2016, Soboba Band of Luiseno Indians responded with the request to initiate formal consultation with EMWD. On March 22, 2016, Pechanga Band of Luiseno Indians responded and stated that the Project is located within a culturally sensitive area affiliated with the Tribe. Pechanga requested consultation with EMWD for the Project. EMWD is currently conducting formal consultation with Soboba Band of Luiseno Indians and Pechanga Band of Luiseno Indians, any information obtained through those processes will be included in subsequent drafts of this report.

In addition, Dudek requested NAHC search of its Sacred Lands File on August 14, 2018, for the Project area. The NAHC results, received August 17, 2018, reported that their search of the SLF was negative (Appendix B).

Intensive Pedestrian Survey

The intensive pedestrian survey was conducted by Dudek archaeologist Jessica Colston on August 10, 2018, using standard archaeological procedures and techniques that meet the Secretary of Interior's standards and guidelines for cultural resources inventory, as well as the City's Historical Resource Guidelines. The intensive-level survey methods consisted of a pedestrian survey conducted in 15 meter wide transects across the Project area. Within the transects, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as burrows, cut banks, and drainages were also visually inspected for exposed subsurface materials.

The Project area and the immediately surrounding areas showed evidence (e.g. plow scars) of recurring agricultural disturbances. The Project area is relatively flat, with an elevation of approximately 1,415 feet above mean sea level. Ground visibility for the Project area was excellent (100%). No cultural resources were identified within the Project area during the field survey.

SUMMARY AND MANAGEMENT CONSIDERATIONS

Archaeological Recommendations

Dudek's Phase I cultural resources inventory of the Project indicates that there is low sensitivity for intact subsurface archaeological deposits. No cultural resources are present within the Project

Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

area. Further, no tribal cultural resources were identified by the NAHC Sacred Lands File search. As there are no resources in the Project area, no historical resources, as defined under CEQA, will be impacted by the Project. This includes no direct, indirect, or cumulative impacts. In consideration of the negative results of the EIC records search, archival research, NAHC Sacred Lands File search, and intensive-level survey, no further cultural efforts or mitigation, including cultural construction monitoring, are recommended in support of implementation of the Project.

Unanticipated Discovery of Archaeological Resources

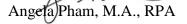
In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the Project, all construction work occurring within 100 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find and determine whether or not additional study is warranted. If the discovery is clearly not significant (e.g., and isolate), the archaeologist may simply record the find and allow work to continue. If the discovery proves potentially significant under CEQA, additional work such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.

Unanticipated Discovery of Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the appropriate treatment and disposition of the human remains. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify the person or persons it believes to be the MLD from the deceased Native American. The MLD shall complete inspection within 48 hours of being granted access to the site and make recommendations for the treatment and disposition, in consultation with the property owner, of the human remains.

Should you have any questions relating to this report and its findings, please do not hesitate to contact me at 760.479.4855 or apham@dudek.com.

Respectfully Submitted,





Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

Archaeologist

Att: Figure 1, Project Location

Confidential Appendix A, EIC Records Search Results

Appendix B, NAHC Correspondence

CC: Micah Hale, Brad Comeau, Dudek

Mr. Christensen

Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

REFERENCES

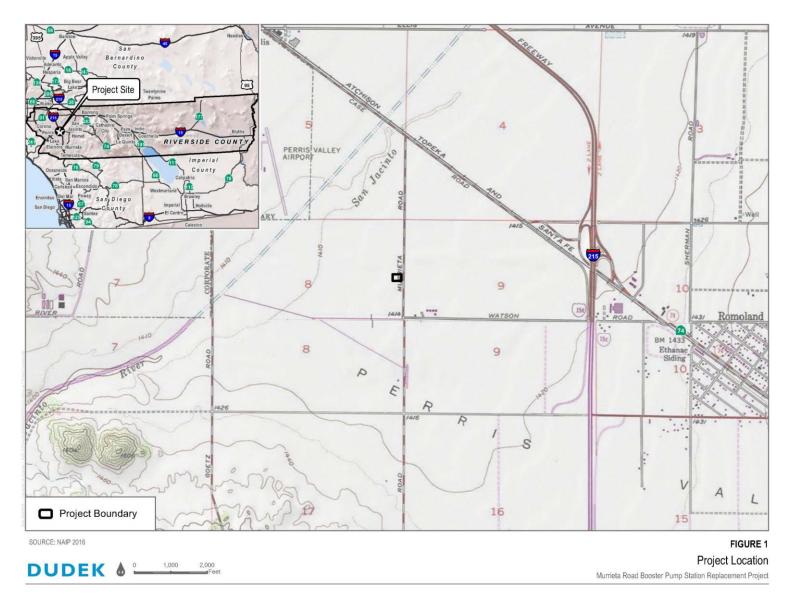
City of Perris General Plan. 2014. Accessed August 21, 2018. http://www.palmspringsca.gov/government/departments/planning/general-plan.

NETR (National Environmental Title Research). 2018. Address search for Murrieta Road and Watson Road, Perris, California. Accessed August 21, 2018. http://www.historicaerials.com/.

August 2018

Mr. Christensen

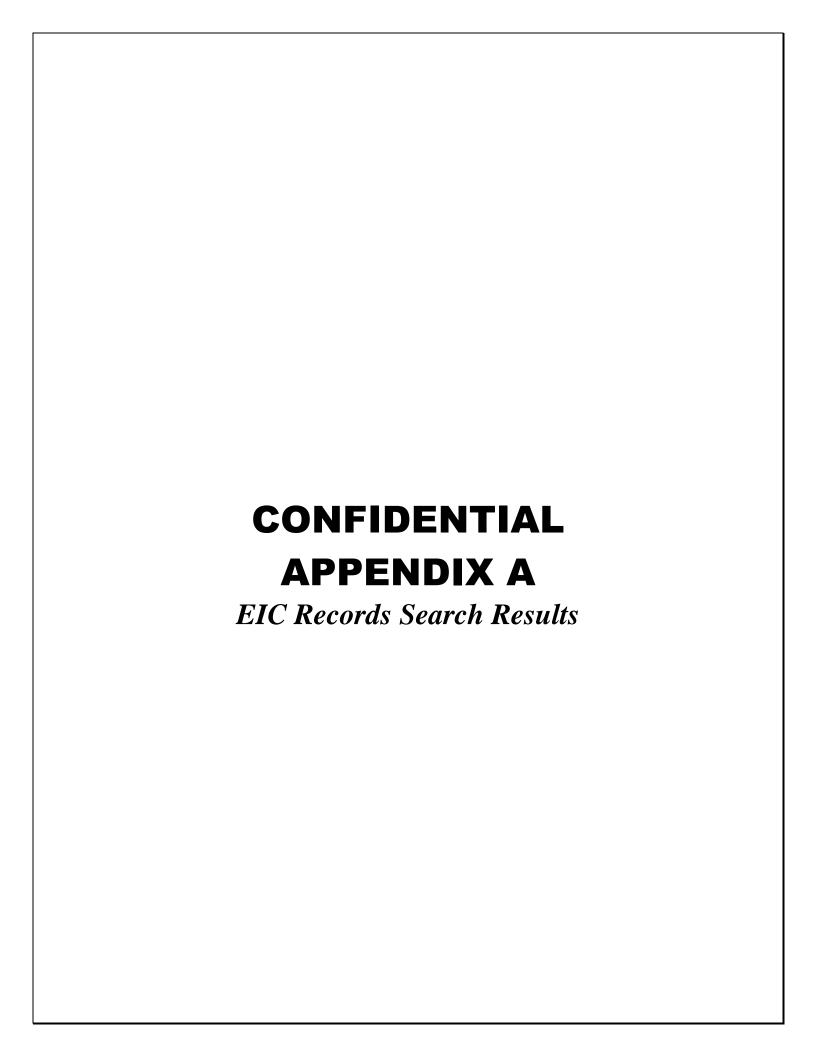
Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

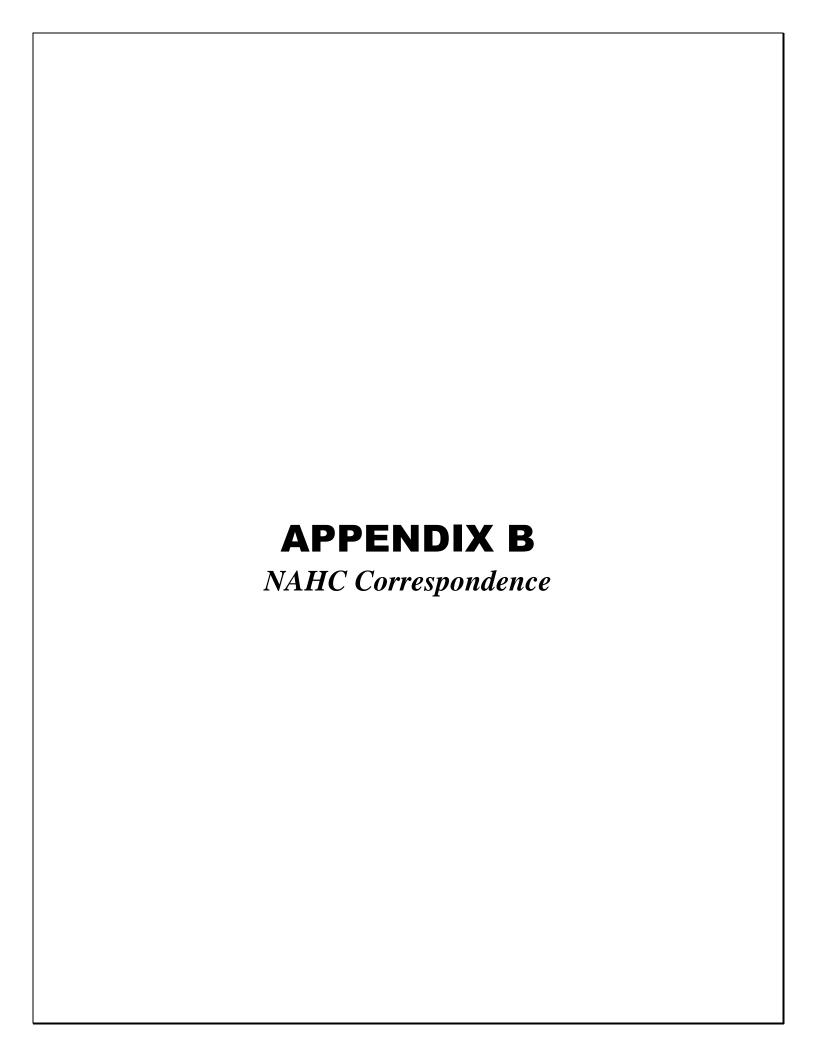


Mr. Christensen

Subject: Negative Cultural Resources Letter Report for the Proposed Murrieta Road Booster Pump Station (BPS) Relocation Project, City of Perris, California

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DUDEK

MAIN OFFICE 605 THIRD STREET ENCINITAS, CALIFORNIA 92024 T 760.942.5147 T 800.450.1818 F 760.632.0164

August 14, 2018

NAHC Staff Associate Government Program Analyst Native American Heritage Commission

Subject: NAHC Sacred Lands File Records Search Request for the Murrieta Road

Booster Pump Station Replacement Project, City of Perris, County of

Riverside, California, California

Dear NAHC Staff,

The Murrieta Road Booster Pump Station Replacement Project is located in the City of Perris, Riverside County, California. The Eastern Municipal Water District (EMWD) proposes to construct a replacement booster pump station within the City of Perris. This area falls within the following PLSS area: Township 5S/ Range 3W – Section 8; Perris Quadrangle, CA 1:24,000 USGS maps (Figure 1).

Dudek is requesting a NAHC search for any sacred sites or other Native American cultural resources that may fall within the proposed project location or a surrounding one-mile buffer. Please provide a Contact List with all Native American tribal representatives that may have traditional interests in this parcel or the surrounding search area. The results of this search can be faxed to 760-632-0164.

If you have any questions relating to this investigation, please contact me directly by email or phone.

Regards,

Angela Pham, M.A., RPA

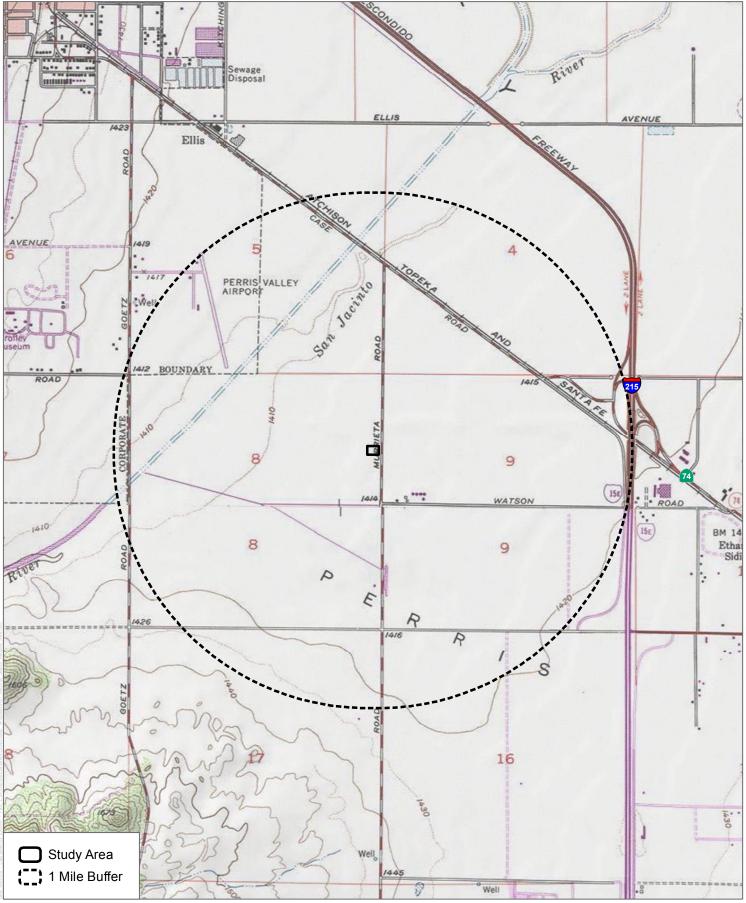
Archaeologist

DUDEK

Phone: (760) 479-4855 Email: apham@dudek.com

Attachments:

Figure 1. SLF Records Search Request Map



SOURCE: USGS 7.5-Minute Series Perris & Romoland Quadrangles Township 5S; Range 3W; Sections 4, 5, 6, 7, 8, 9, 16, 17



0	1,000	2,000 Feet
0	285	570 Meters
	1:24,000	

FIGURE 1 Records Search

NATIVE AMERICAN HERITAGE COMMISSION

Environmental and Cultural Department 1550 Harbor Blvd., ROOM 100 West SACRAMENTO, CA 95691 (916) 373-3710 Fax (916) 373-5471



August 13, 2018

Angela Pham

Dudek

Sent by Email: apham@dudek.com

Re: Murrieta Road Booster Pump Station Replacement, Riverside County

Dear Ms. Pham,

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not preclude the presence of cultural resources in any project area. Other sources for cultural resources should also be contacted for information regarding known and/or recorded sites.

Enclosed is a list of Native Americans tribes who may have knowledge of cultural resources in the project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these tribes, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at 916-573-1033 or frank.lienert@nahc.ca.gov.

Sincerely,

Frank Lienert

Associate Governmental Program Analyst

Cabazon Band of Mission Indians Doug Welmas, Chairperson 84-245 Indio Springs Parkway Cahuilla , CA 92203 Indio

(760) 342-2593

(760) 347-7880 Fax

Los Covotes Band of Cahuilla and Cupeno Indians Shane Chapparosa. Chairman

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Cahuilla

Luiseno

Cupeno

Luiseno

Cahuilla

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Chapparosa@msn.com

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(760) 782-0712 Fax

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PMB 50. 35008 Pala Temecula Rd.

- CA 92059 Pala

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(760) 742-3189 Fax

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Temet Aquilar, Chairperson P.O. Box 369

Pauma Vallev CA 92061

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(760) 742-3422 Fax

Twenty-Nine Palms Band of Mission Indians

Chemehuevi

Chemehuevi

Moiave

Juaneno

Moiave

Chemehuevi

Darrell Mike, Chairperson

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Chemehuevi Indian Tribe Charles F. Wood, Chairperson

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(760) 858-5400 Fax

Fort Moiave Indian Tribe Timothy Williams, Chairperson

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Needles - CA 92363

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(760) 629-5767 Fax

Juaneno Band of Mission Indians Acjachemen Nation

Matias Belardes. Chairperson

32161 Avenida Los Amigos

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Ramona Band of Cahuilla Joseph Hamilton, Chairman

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, CA 92539

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Anza

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Colorado River Indian Tribes of the Colorado River Indian Reservation

Dennis Patch. Chairman

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Parker

, AZ 85344

crit.museum@vahoo.com

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(928) 669-1925 Fax

This list is current only as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American Tribes with regard to cultural resources assessments for the proposed Murrieta Road Booster Pump Station Replacement, Riverside County

Quechan Tribe of the Fort Yuma Indian Reservation Michael Jackson. Sr., President

P.O.Box 1899

Quechan

Yuma AZ 85366 aitores@quechantribe.com

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Gabrieleno/Tongva San Gabriel Band of Mission Indians

Anthony Morales. Chairperson

P.O. Box 693

Gabrielino Tongva

Cahuilla

Gabrielino Tongva

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(951) 659-2228 Fax

Augustine Band of Cahuilla Indians

Amanda Vance. Chairperson

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Coachella . . CA 92236

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(760) 360_7161Fav

Sandonne Goad. Chairperson

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Gabrielino /Tongva Nation

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Juaneno Band of Mission Indians Acjachemen Nation

Teresa Romero, Chairwoman

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San Luis Rev Band of Mission Indians

Tribal Council

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Cahuilla

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Agua Caliente Band of Cahuilla Indians

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(760) 699-6919 Fax

This list is current only as of the date of this document and is based on the information available to the Commission on the date it was produced.

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This list is only applicable for contacting local Native American Tribes with regard to cultural resources assessments for the proposed Murrieta Road Booster Pump Station Replacement, Riverside County

Morongo Band of Mission Indians

Robert Martin, Chairperson

Juaneño Band of Mission Indians Sonia Johnston, Tribal, Chairperson,

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Luiseno

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(760) 742-3779 Fax

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(951) 763-2808

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Jovce Perry, Tribal Manager

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Serrano Nation of Mission Indians Goldie Walker, Chairperson

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Serrano

Patton

- CA 92369

Agua Caliente Band of Cahuilla Indians

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This list is current only as of the date of this document and is based on the information available to the Commission on the date it was produced.

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This list is only applicable for contacting local Native American Tribes with regard to cultural resources assessments for the proposed Murrieta Road Booster Pump Station Replacement, Riverside County

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This list is only applicable for contacting local Native American Tribes with regard to cultural resources assessments for the proposed Murrieta Road Booster Pump Station Replacement, Riverside County

APPENDIX D

Hazardous Materials Memorandum



MAIN OFFICE 605 THIRD STREET ENCINITAS, CALIFORNIA 92024 T 760.942.5147 T 800.450.1818 F 760.632.0164

MEMORANDUM

From: Nicole Peacock

Subject: Hazardous Materials Memo

Murrieta Road Booster Pump Station Replacement Project, Option A Site

Date: August 22, 2018

Attachment(s): Figure 1 – Project Location, Attachment A - EDR Report

INTRODUCTION

This memorandum summarizes environmental concerns within the Project Area in order to comply with the California Environmental Quality Act (CEQA) requirements for identifying potential hazardous material impacts related to CEQA Appendix G question VII(d). Per CEQA Appendix G question VII(d), sites identified in one of the regulatory databases compiled pursuant to Government Code Section 65962.5 could present a significant impact. Government Code Section 65962.5 requires the California Environmental Protection Agency (Cal-EPA) to compile and update the hazardous waste and substances sites list (Cortese List).

The Cortese List was designed to comply with Government Code Section 65962.5. While the Cortese List is no longer maintained as a single list, the following databases provide information regarding sites identified as meeting the Cortese List requirements:

- 1) List of Hazardous Waste and Substances sites from Department of Toxic Substances Control (DTSC) Envirostor database (Health and Safety Codes 25220, 25242, 25356, and 116395)¹
- 2) List of Leaking Underground Storage Tank (LUST) Sites by County and Fiscal Year from the State Water Resources Control Board (Water Board) GeoTracker database (Health and Safety Code 25295)²

¹ https://www.envirostor.dtsc.ca.gov/public/

² http://geotracker.waterboards.ca.gov/

Memorandum

Subject: Hazardous Materials – Murrieta Road Booster Pump Station Replacement Project Option A Site

- 3) List of solid waste disposal sites identified by the Water Board with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273 subdivision (e) and California Code of Regulations Title 14 Section 18051)³
- 4) List of "active" Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO) from the Water Board (Water Code Sections 13301 and 13304)⁴
- 5) List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by DTSC.⁵

Dudek reviewed the facilities and/or sites identified in these five databases to determine if the Project Area is listed on the Cortese List. Additionally, this memorandum includes a review and summary of regulatory agency records (EDR Report) for sites within one mile of the Project Area to determine if these sites have impacted the environmental conditions within the Project Area. The Project Area is the Option A Site, located north of Watson Road and west of Murrieta Road in Perris, California, as shown on Figure 1.

CORTESE LIST REVIEW

1) Hazardous Waste and Substances Site list

On August 14, 2018, Dudek accessed the Hazardous Waste and Substances site list on DTSC's Envirostor online database. The Project Area is not listed on the DTSC Envirostor database, either on-line or in the EDR report.

2) Leaking Underground Storage Tank Sites

On August 14, 2018, Dudek accessed the Water Board's GeoTracker database to obtain the list of LUST sites located within the Project Area. The Project Area is not listed on the Water Board's Geotracker database or in the EDR report.

3) Solid Waste Disposal Sites

On August 14, 2018, Dudek downloaded the list of solid waste disposal sites identified by the Water Board with waste constituents above hazardous waste levels outside a waste management

⁵ https://calepa.ca.gov/sitecleanup/corteselist/section-65962-5a/



³ https://calepa.ca.gov/wp-content/uploads/sites/6/2016/10/SiteCleanup-CorteseList-CurrentList.pdf

⁴ https://calepa.ca.gov/wp-content/uploads/sites/6/2016/10/SiteCleanup-CorteseList-CDOCAOList.xlsx

Memorandum

Subject: Hazardous Materials – Murrieta Road Booster Pump Station Replacement Project Option A Site

unit. Twenty-five sites were listed in California; however, none of the sites were located in Perris, CA.

4) Active Cease and Desist Orders and/or Cleanup and Abatement Orders

On August 14, 2018, Dudek downloaded the Water Board's list of active CDOs and CAOs for California. There are no listings associated with the Project Area.

5) Hazardous Waste Facilities Subject to Corrective Action

Dudek accessed the CalEPA Cortese List to obtain information on hazardous waste facilities identified in the Health and Safety Code 25187.5. Facilities identified under HSC 25187 are those that DTSC determined required immediate corrective action to "abate imminent or substantial endangerment." Two sites were listed in California. None of the sites were listed within the city of Perris, CA.

REGULATORY RECORDS

A search of regulatory records was conducted by Environmental Data Resources (EDR) in August 2018 (Attachment A). The EDR report gives a listing of sites, within an approximately one-mile radius of the Project Area, which are known to be chemical handlers, hazardous waste generators, or polluters. Information in these listings includes the location of the site relative to the Project Area, sources of pollution, and the status of the listed site.

The Project Area and adjacent sites were not listed in any of the regulatory databases searched by EDR.

Eighteen sites were identified within a 1 mile radius of the Project Area. Fifteen of the sites were listed in databases that were not indicative of a release; therefore, these sites are not likely to impact the environmental conditions of the Project Area. The remaining three sites were found in databases that were indicative of a release. These databases include LUST, ERNS, CHMIRS and HIST CORTESE. The listed sites are discussed below:

- The Eastern Municipal Water District Perris pumping plant currently operates at 1330 East Watson Road, approximately 4,300 feet southeast of the Project Area.
 - On April 1, 1995, a motor/hydraulic oil leak was encountered during a tank closure event. The release could have potentially affected the aquifer used for drinking water. As of August 1995 the case status was reported as closed, therefore it is

- unlikely that this LUST site has impacted the environmental conditions at the Project Area.
- A release of motor oil was reported in 2010. The spill was contained and therefore
 it is unlikely that this site has impacted the Project Area.
- The site was listed in the HIST CORTESE database. According to the file for this site on Geotracker, the listing is associated with the removal of two underground storage tanks from the site. Low concentrations of total recoverable petroleum hydrocarbons were detected (500 parts per million [ppm] at 6 feet below ground surface and 15 ppm at 8 feet depth). The RWQCB closed the release case with no further action required.
- The Eastern Municipal Water District water treatment and sewage facility operates at 1301 East Watson Road and is located approximately 3,720 feet east-northeast from the Project Area.
 - o In August 7, 2007, it was reported that a leaking pipe caused the release of approximately 1,500 gallons of sewage. The spill was contained within the treatment plant. In July 2008, a discharge line ruptured spilling approximately 7 gallons of a polymer. The spill was reportedly contained. In November 2008, approximately 75 gallons of sodium bisulfite leaked within a containment area. In August 2011, approximately 300 gallons of ferric chloride leaked from a storage tank into a secondary containment area. All of the release incidents were contained and therefore it is unlikely that this site has impacted the environmental conditions of the Project Area.
 - o In April 2009, 2,000 gallons of sodium hydroxide solution leaked from an odor scrubbing unit into a secondary containment area and later onto the ground. In August 2011, 300 gallons of ferric chloride leaked into a secondary containment area. To remediate each spill, a hazmat contractor was called onsite to remove the impacted material. Due to the distance from the Project Area and the cleanup, it is unlikely that this site has impacted the environmental conditions of the Project Area.
- 75 Paseo Adelanto Road is located approximately 5,200 feet northwest from the Project Area. The facility at the site designs and constructs equipment for the aggregate and mineral processing industry.

Memorandum

Subject: Hazardous Materials – Murrieta Road Booster Pump Station Replacement Project Option A Site

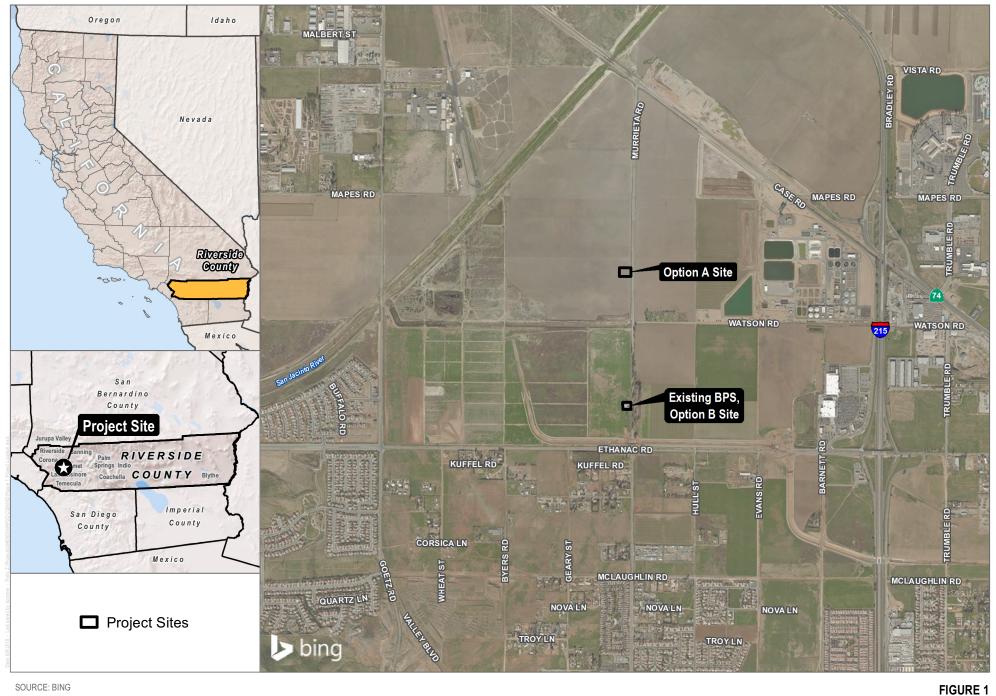
o In November 2005, the facility reported an emergency release to the soil. The company released an unknown amount of d-limonene to the ground. Due to the distance and type of environmental impact, it is unlikely that this site has impacted the environmental conditions of the Project Area.

CONCLUSIONS AND RECOMMENDATIONS

The purpose of this Hazards Materials Study was to determine if the Project Area was identified in one of the regulatory databases compiled pursuant to Government Code Section 65962.5 (Cortese List). Based on the research summarized in this memorandum, the Project Area is not included in the sites listed pursuant to Government Code Section 65962.5.

This memorandum also presented the findings of a search of regulatory agency records for sites within one mile of the Project Area. Based on review of the listed sites, no impacts to the environmental condition at the Project Area are anticipated.





SOURCE: BING

Project Location

Murrieta Road BPS

Murrieta Road Perris, CA 92570

Inquiry Number: 5391347.2s

August 13, 2018

The EDR Radius Map™ Report



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

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GEOCHECK ADDENDUM	·

GeoCheck - Not Requested

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

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MURRIETA ROAD PERRIS, CA 92570

COORDINATES

Latitude (North): 33.7535780 - 33° 45' 12.88" Longitude (West): 117.2068910 - 117° 12' 24.80"

Universal Tranverse Mercator: Zone 11 UTM X (Meters): 480838.6 UTM Y (Meters): 3734659.2

Elevation: 1416 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5641330 PERRIS, CA

Version Date: 2012

South Map: 5641314 ROMOLAND, CA

Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140603 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: MURRIETA ROAD PERRIS, CA 92570

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	SOIL RETENTION PRODU	1765 WATSON RD	HAZNET	Higher	2574, 0.488, ESE
2	ROMOLAND MDP LINE A,	MURRIETTA ROAD TO BA	CIWQS	Lower	2749, 0.521, WSW
A3	E.M.W.D. PERRIS PUMP	1330 WATSON	HIST CORTESE	Higher	2902, 0.550, ESE
A4	PERRIS VALLEY REGION	1330 WATSON ROAD	RMP	Higher	2904, 0.550, ESE
A5	PERRIS VALLEY RWRF	1330 WATSON ROAD	RMP	Higher	2904, 0.550, ESE
A6	E.M.W.D. PERRIS PUMP	1330 WATSON RD	LUST	Higher	2904, 0.550, ESE
B7	PERRIS VALLEY WATER	26560 WATSON ROAD	HIST UST	Higher	3110, 0.589, ESE
B8	EMWD PERRIS VALLEY W	26560 WATSON RD	SWEEPS UST, CA FID UST	Higher	3110, 0.589, ESE
B9	EASTERN MUNICIPAL WA	26560 WATSON RD	EMI	Higher	3204, 0.607, ESE
B10	EASTERN MUNICIPAL WA	1301 CASE RD	US AIRS	Higher	3204, 0.607, ESE
11	EASTERN MUN WATER DI	26610 WATSON RD	EMI	Higher	3345, 0.634, ESE
12	PERRIS VALLEY LINE L	1304 CASE ROAD	CIWQS	Higher	3444, 0.652, NE
13	GREEN VALLEY TRACT 3	APPROXIMATELY 26065	NPDES, CIWQS	Lower	3682, 0.697, SSW
C14	EMWD PERRIS VALLEY R	1330 WATSON RD	FINDS	Higher	3693, 0.699, ESE
C15	E.M.W.D. PERRIS PUMP	1330 E WATSON RD	FINDS	Higher	3693, 0.699, ESE
16	PERRIS VALLEY RWRF	1301 CASE ROAD	CIWQS	Lower	3718, 0.704, North
D17	EMWD - PERRIS VALLEY	1301 CASE ROAD	FINDS, ECHO	Higher	3723, 0.705, ENE
D18	DOUGS TOUG INC	1301 CASE RD	HAZNET	Higher	3723, 0.705, ENE
D19	EASTERN MUNICIPAL WA	1301 CASE RD	EMI, NPDES, CIWQS	Higher	3723, 0.705, ENE
D20	KIEWIT INFRASTRUCTUR	1301 CASE RD	HAZNET	Higher	3723, 0.705, ENE
D21		1301 CASE RD	CHMIRS	Higher	3723, 0.705, ENE
D22		1301 CASE ROAD	ERNS	Higher	3723, 0.705, ENE
D23		1301 CASE ROAD	ERNS	Higher	3723, 0.705, ENE
D24	EASTERN MUNICIPAL WA	1301 CASE ROAD	HAZNET	Higher	3723, 0.705, ENE
D25	EASTERN MUNICIPAL WA	1301 CASE RD	FINDS, ECHO	Higher	3723, 0.705, ENE
D26		1301 CASE ROAD	ERNS	Higher	3723, 0.705, ENE
D27		1301 CASE RD	ERNS	Higher	3723, 0.705, ENE
D28		1301 CASE ROAD	ERNS	Higher	3723, 0.705, ENE
D29	EMWD - PERRIS VALLEY	1301 CASE ROAD	RCRA-LQG	Higher	3723, 0.705, ENE
D30		1301 CASE ROAD	CHMIRS	Higher	3723, 0.705, ENE
D31		1301 CASE RD.	CHMIRS	Higher	3723, 0.705, ENE
D32	STPPERRIS VALLEY REG	1301 CASE RD	CHMIRS, HAZNET, WDS, CIWQS	Higher	3723, 0.705, ENE
D33	PERRIS VALLEY REGION	1301 CASE ROAD	RMP	Higher	3723, 0.705, ENE
D34	KIEWIT INFRASTRUCTUR	1301 CASE RD	FINDS	Higher	3739, 0.708, ENE
E35	ETHANAC ROAD WIDENTI	ETHANAC ROAD	NPDES, CIWQS	Higher	3807, 0.721, South
E36	GREEN VALLEY	MURRIETA ROAD AND ET	NPDES, CIWQS	Higher	3828, 0.725, South
37	EMWD PERRIS VALLEY R	1301 CASE RD	AST	Higher	3905, 0.740, East
38	CASE ROAD BRIDGE		CIWQS	Lower	3948, 0.748, North
39	ROMOLAND MDP LINE A,	PROJECT VICINITY IS	CIWQS	Higher	4103, 0.777, SSE

MAPPED SITES SUMMARY

Target Property Address: MURRIETA ROAD PERRIS, CA 92570

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
F40	GREEN VALLEY TR 3698	APPROXIMATELY 26065	NPDES, CIWQS	Higher	4143, 0.785, SW
F41	GREEN VALLEY TRACT 3	APPROXIMATELY 25245	NPDES, CIWQS	Higher	4143, 0.785, SW
42	WEST CASE ROAD BRIDG		CIWQS	Lower	4279, 0.810, North
43	PERRIS VALLEY RWRF	1301 CASE ROAD	FINDS	Higher	4279, 0.810, ENE
44	E.M.W.D. PERRIS PUMP	1330 E WATSON RD	LUST, CHMIRS	Higher	4297, 0.814, ESE
G45		75 PASEO ADELNTO	ERNS	Higher	5200, 0.985, NW
G46	SPAULDING EQUIPMENT	75 PASEO ADELANTO	HAZNET	Higher	5200, 0.985, NW
G47	ALTEC INDUSTRIES INC	75 PASEO ADELANTO BL	RCRA-SQG	Higher	5200, 0.985, NW
48	S PERRIS DISTRIBUTIO	MAPES RD & GOETZ RD	CIWQS	Higher	5278, 1.000, WNW

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list	
NPL	
Proposed NPL	Proposed National Priority List Sites
NI L LILINO	- rederal Superiorio Liens
Federal Delisted NPL site li	st
Delisted NPL	National Priority List Deletions
Federal CERCLIS list	
	Federal Facility Site Information listing
SEIVIS	Superfund Enterprise Management System
Federal CERCLIS NFRAP si	ite list
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
Federal RCRA CORRACTS	facilities list
CORRACTS	. Corrective Action Report
Federal RCRA non-CORRA	CTS TSD facilities list
RCRA-1SDF	RCRA - Treatment, Storage and Disposal
Federal RCRA generators li	st
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
Federal institutional control	ls / engineering controls registries
	Land Use Control Information System
	Engineering Controls Sites List Sites with Institutional Controls
State- and tribal - equivalen	t NPL

RESPONSE..... State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR..... EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

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

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

CPS-SLIC Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST...... Underground Storage Tank Listing

UST....... Active UST Facilities
INDIAN UST...... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing VCP...... Voluntary Cleanup Program Properties

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

State and tribal Brownfields sites

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

Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

HIST Cal-Sites Historical Calsites Database

SCH...... School Property Evaluation Program

CDL...... Clandestine Drug Labs Toxic Pits...... Toxic Pits Cleanup Act Sites

Local Lists of Registered Storage Tanks

CERS TANKS...... California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS..... Environmental Liens Listing LIENS 2..... CERCLA Lien Information DEED...... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

LDS..... Land Disposal Sites Listing MCS..... Military Cleanup Sites Listing SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR______ RCRA - Non Generators / No Longer Regulated

FUDS..... Formerly Used Defense Sites DOD..... Department of Defense Sites

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION........... 2020 Corrective Action Program List

TSCA Toxic Substances Control Act
TRIS Toxic Chemical Release Inventory System

SSTS..... Section 7 Tracking Systems ROD...... Records Of Decision

RAATS______RCRA Administrative Action Tracking System

PRP..... Potentially Responsible Parties PADS...... PCB Activity Database System

ICIS......Integrated Compliance Information System

FTTS......FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

..... Material Licensing Tracking System COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS..... Incident and Accident Data

CONSENT...... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites LEAD SMELTERS..... Lead Smelter Sites US MINES..... Mines Master Index File ABANDONED MINES..... Abandoned Mines

DOCKET HWC..... Hazardous Waste Compliance Docket Listing

Unexploded Ordnance Sites

FUELS PROGRAM..... EPA Fuels Program Registered Listing

CA BOND EXP. PLAN..... Bond Expenditure Plan

Cortese "Cortese" Hazardous Waste & Substances Sites List

CUPA Listings..... CUPA Resources List DRYCLEANERS..... Cleaner Facilities

ENF..... Enforcement Action Listing

Financial Assurance Information Listing

ICE.....ICE

HWP..... EnviroStor Permitted Facilities Listing

HWT...... Registered Hazardous Waste Transporter Database

MINES..... Mines Site Location Listing

MWMP..... Medical Waste Management Program Listing

PEST LIC..... Pesticide Regulation Licenses Listing

PROC..... Certified Processors Database

Notify 65..... Proposition 65 RecordsUIC Listing

WASTEWATER PITS...... Oil Wastewater Pits Listing

WIP..... Well Investigation Program Case List NON-CASE INFO...... NON-CASE INFO (GEOTRACKER)

OTHER OIL GAS....... OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS...... PROD WATER PONDS (GEOTRACKER) WELL STIM PROJ..... Well Stimulation Project (GEOTRACKER)

CERS..... CERS

SAMPLING POINT..... SAMPLING POINT (GEOTRACKER)

MILITARY PRIV SITES..... MILITARY PRIV SITES (GEOTRACKER)

UIC GEO...... UIC GEO (GEOTRACKER) PROJECT (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List

RGA LUST...... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

Sites listed in bold italics are in multiple databases.

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

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-LQG site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMWD - PERRIS VALLEY	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D29	67

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-SQG site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALTEC INDUSTRIES INC	75 PASEO ADELANTO BL	NW 1/2 - 1 (0.985 mi.)	G47	118

Federal ERNS list

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 03/19/2018 has revealed that there are 6 ERNS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D22	63
Not reported	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D23	63
Not reported	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D26	66
Not reported	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D27	66
Not reported	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D28	67
Not reported	75 PASEO ADELNTO	NW 1/2 - 1 (0.985 mi.)	G45	116

State and tribal leaking storage tank lists

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

A review of the LUST list, as provided by EDR, has revealed that there are 2 LUST sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
E.M.W.D. PERRIS PUMP	1330 WATSON RD	ESE 1/2 - 1 (0.550 mi.)	A6	22
Database: LUST REG 8, Date of G	Sovernment Version: 02/14/2005			
Facility Status: Case Closed				
Global ID: T0606500409				
E.M.W.D. PERRIS PUMP	1330 E WATSON RD	ESE 1/2 - 1 (0.814 mi.)	44	113
Database LUST Date of Government	nent Version: 06/11/2018	•		

Database: LUST, Date of Government Version: 06/11/2018

Database: RIVERSIDE CO. LUST, Date of Government Version: 04/05/2018

Status: Completed - Case Closed

Facility Id: 95002 Global Id: T0606500409 Facility Status: 9

State and tribal registered storage tank lists

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 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMWD PERRIS VALLEY R	1301 CASE RD	E 1/2 - 1 (0.740 mi.)	37	101
Database: AST, Date of Government \	/ersion: 07/06/2016			

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: 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.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMWD PERRIS VALLEY W	26560 WATSON RD	ESE 1/2 - 1 (0.589 mi.)	B8	23

Status: A Tank Status: A Comp Number: 30921

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PERRIS VALLEY WATER	26560 WATSON ROAD	ESE 1/2 - 1 (0.589 mi.)	В7	23
Facility Id: 00000030921				

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMWD PERRIS VALLEY W Facility Id: 33006602	26560 WATSON RD	ESE 1/2 - 1 (0.589 mi.)	B8	23
Status: A				

Records of Emergency Release Reports

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 04/06/2018 has revealed that there are 5 CHMIRS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported OES Incident Number: 7-4746 OES Incident Number: 7-5164	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D21	61
Not reported OES Incident Number: 08-7901 OES Incident Number: 08-0357	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D30	69
Not reported OES Incident Number: 7-1132 OES Incident Number: 2-0283 OES Incident Number: 08-4895	1301 CASE RD.	ENE 1/2 - 1 (0.705 mi.)	D31	71
STPPERRIS VALLEY REG OES Incident Number: 10-1480 OES Incident Number: 08-4442	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D32	75

OES Incident Number: 1-4854 OES Incident Number: 10-0685

E.M.W.D. PERRIS PUMP 1330 E WATSON RD ESE 1/2 - 1 (0.814 mi.) 44 113

OES Incident Number: 10-1095

Other Ascertainable Records

RMP: 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.

A review of the RMP list, as provided by EDR, and dated 11/02/2017 has revealed that there are 3 RMP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PERRIS VALLEY REGION	1330 WATSON ROAD	ESE 1/2 - 1 (0.550 mi.)	A4	10
PERRIS VALLEY RWRF	1330 WATSON ROAD	ESE 1/2 - 1 (0.550 mi.)	A5	16
PERRIS VALLEY REGION	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D33	82

US AIRS: 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.

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

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EASTERN MUNICIPAL WA	1301 CASE RD	ESE 1/2 - 1 (0.607 mi.)	B10	26
Database: US AIRS (AFS), Date of	Government Version: 10/12/2016			

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/21/2018 has revealed that there are 6

FINDS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMWD PERRIS VALLEY R	1330 WATSON RD	ESE 1/2 - 1 (0.699 mi.)	C14	44
E.M.W.D. PERRIS PUMP	1330 E WATSON RD	ESE 1/2 - 1 (0.699 mi.)	C15	45
EMWD - PERRIS VALLEY	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D17	46
EASTERN MUNICIPAL WA	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D25	65
KIEWIT INFRASTRUCTUR	1301 CASE RD	ENE 1/2 - 1 (0.708 mi.)	D34	93
PERRIS VALLEY RWRF	1301 CASE ROAD	ENE 1/2 - 1 (0.810 mi.)	43	112

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 02/25/2018 has revealed that there are 2 ECHO sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EMWD - PERRIS VALLEY	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D17	46
EASTERN MUNICIPAL WA	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D25	65

EMI: Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the EMI list, as provided by EDR, and dated 12/31/2017 has revealed that there are 3 EMI sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EASTERN MUNICIPAL WA Facility Id: 7417	26560 WATSON RD	ESE 1/2 - 1 (0.607 mi.)	B9	25
EASTERN MUN WATER DI Facility Id: 7417	26610 WATSON RD	ESE 1/2 - 1 (0.634 mi.)	11	39
EASTERN MUNICIPAL WA Facility Id: 7417	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D19	47

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the HAZNET list, as provided by EDR, and dated 12/31/2016 has revealed that there are 6 HAZNET sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOIL RETENTION PRODU GEPAID: CAL000192061	1765 WATSON RD	ESE 1/4 - 1/2 (0.488 mi.)	1	8
DOUGS TOUG INC GEPAID: CAC002656635	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D18	46
KIEWIT INFRASTRUCTUR	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D20	59

GEPAID: CAL000325083				
EASTERN MUNICIPAL WA GEPAID: CAL000089264	1301 CASE ROAD	ENE 1/2 - 1 (0.705 mi.)	D24	64
STPPERRIS VALLEY REG GEPAID: CAC002730256	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D32	75
SPAULDING EQUIPMENT GEPAID: CAL000296508	75 PASEO ADELANTO	NW 1/2 - 1 (0.985 mi.)	G46	116

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
E.M.W.D. PERRIS PUMP	1330 WATSON	ESE 1/2 - 1 (0.550 mi.)	А3	10
Reg Id: 083302605T				

NPDES: A listing of NPDES permits, including stormwater.

A review of the NPDES list, as provided by EDR, and dated 05/14/2018 has revealed that there are 6 NPDES sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EASTERN MUNICIPAL WA Facility Status: Terminated	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D19	47
ETHANAC ROAD WIDENTI GREEN VALLEY Facility Status: Active	ETHANAC ROAD MURRIETA ROAD AND ET	S 1/2 - 1 (0.721 mi.) S 1/2 - 1 (0.725 mi.)	E35 E36	93 94
GREEN VALLEY TR 3698 Facility Status: Active	APPROXIMATELY 26065	SW 1/2 - 1 (0.785 mi.)	F40	103
GREEN VALLEY TRACT 3 Facility Status: Active	APPROXIMATELY 25245	SW 1/2 - 1 (0.785 mi.)	F41	107
Lower Elevation	Address	Direction / Distance	Map ID	Page
GREEN VALLEY TRACT 3 Facility Status: Active	APPROXIMATELY 26065	SSW 1/2 - 1 (0.697 mi.)	13	40

WDS: California Water Resources Control Board - Waste Discharge System.

A review of the WDS list, as provided by EDR, and dated 06/19/2007 has revealed that there is 1 WDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STPPERRIS VALLEY REG	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D32	<i>7</i> 5

EXECUTIVE SUMMARY

Facility Status: A Facility Id: 8 330110007

CIWQS: The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

A review of the CIWQS list, as provided by EDR, and dated 06/04/2018 has revealed that there are 14 CIWQS sites within approximately 1 mile of the target property.

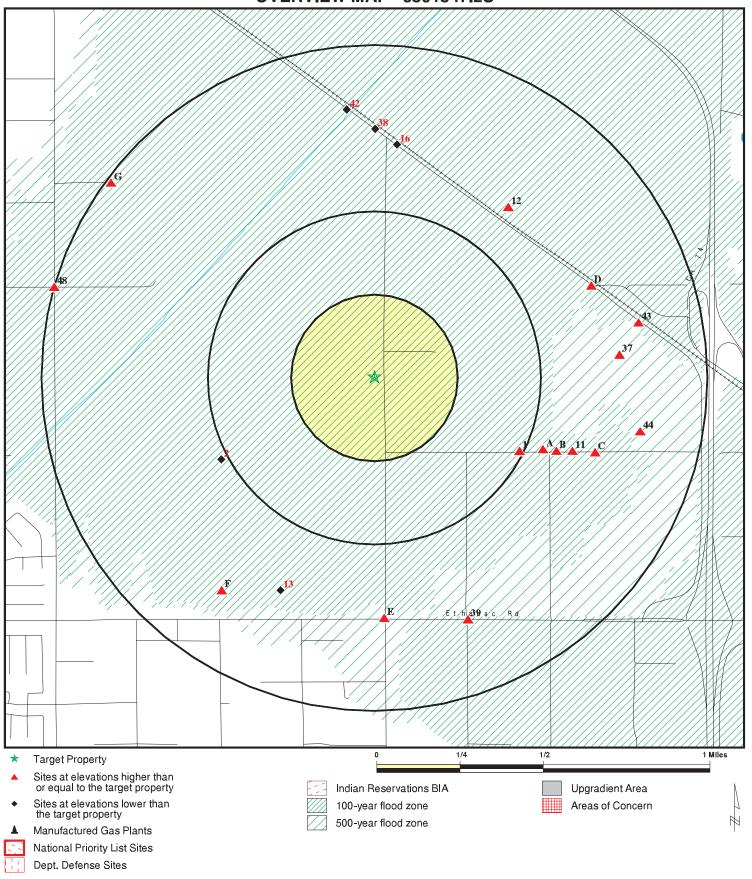
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PERRIS VALLEY LINE L	1304 CASE ROAD	NE 1/2 - 1 (0.652 mi.)	12	39
EASTERN MUNICIPAL WA	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D19	47
STPPERRIS VALLEY REG	1301 CASE RD	ENE 1/2 - 1 (0.705 mi.)	D32	<i>7</i> 5
ETHANAC ROAD WIDENTI	ETHANAC ROAD	S 1/2 - 1 (0.721 mi.)	E35	93
GREEN VALLEY	MURRIETA ROAD AND ET	S 1/2 - 1 (0.725 mi.)	E36	94
ROMOLAND MDP LINE A,	PROJECT VICINITY IS	SSE 1/2 - 1 (0.777 mi.)	39	103
GREEN VALLEY TR 3698	APPROXIMATELY 26065	SW 1/2 - 1 (0.785 mi.)	F40	103
GREEN VALLEY TRACT 3	APPROXIMATELY 25245	SW 1/2 - 1 (0.785 mi.)	F41	107
S PERRIS DISTRIBUTIO	MAPES RD & GOETZ RD	WNW 1/2 - 1 (1.000 mi.)	48	120
Lower Elevation	Address	Direction / Distance	Map ID	Page
ROMOLAND MDP LINE A,	MURRIETTA ROAD TO BA	WSW 1/2 - 1 (0.521 mi.)	2	9
GREEN VALLEY TRACT 3	APPROXIMATELY 26065	SSW 1/2 - 1 (0.697 mi.)	13	40
PERRIS VALLEY RWRF	1301 CASE ROAD	N 1/2 - 1 (0.704 mi.)	16	45
CASE ROAD BRIDGE		N 1/2 - 1 (0.748 mi.)	38	102
WEST CASE ROAD BRIDG		N 1/2 - 1 (0.810 mi.)	42	112

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
	CDL
	CDL
EMWD MURRIETA ROAD BOOSTER PLANT	FINDS

OVERVIEW MAP - 5391347.2S



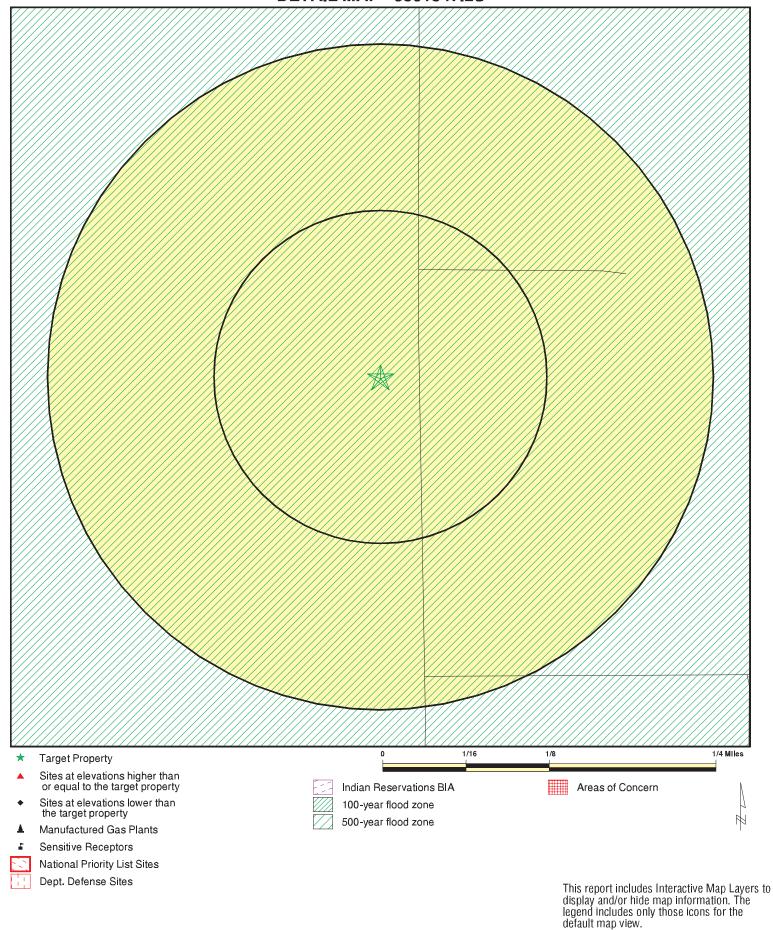
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Murrieta Road BPS ADDRESS: Murrieta Road Perris CA 92570

Perris CA 925/0 LAT/LONG: 33.753578 / 117.206891 CLIENT: Dudek & Associates CONTACT: Marcelo Azevedo

INQUIRY #: 5391347.2s DATE: August 13, 2018 8:00 pm

DETAIL MAP - 5391347.2S



SITE NAME: Murrieta Road BPS
ADDRESS: Murrieta Road
Perris CA 92570
LAT/LONG: 33.753578 / 117.206891

CLIENT: Dudek & Associates
CONTACT: Marcelo Azevedo
INQUIRY #: 5391347.2s
DATE: August 13, 2018 8:02 pm

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL sit	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	1.000 1.000		0 0	0 0	0 0	0 0	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	1.000		0	0	0	0	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	acilities list						
RCRA-TSDF	1.000		0	0	0	0	NR	0
Federal RCRA generator	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	1 1 0	NR NR NR	1 1 0
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROL	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal ERNS list								
ERNS	1.000		0	0	0	6	NR	6
State- and tribal - equiva	lent NPL							
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equiva	lent CERCLIS	;						
ENVIROSTOR	1.000		0	0	0	0	NR	0
State and tribal landfill a solid waste disposal site								
SWF/LF	1.000		0	0	0	0	NR	0
State and tribal leaking	storage tank li	ists						
LUST	1.000		0	0	0	2	NR	2

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST CPS-SLIC	1.000 1.000		0	0 0	0 0	0 0	NR NR	0 0
State and tribal registere	d storage tar	ık lists						
FEMA UST UST AST INDIAN UST	1.000 1.000 1.000 1.000		0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 0	NR NR NR NR	0 0 1 0
State and tribal voluntary	/ cleanup site	es						
INDIAN VCP VCP	1.000 1.000		0	0 0	0 0	0 0	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	1.000		0	0	0	0	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS	<u> </u>						
Local Brownfield lists								
US BROWNFIELDS	1.000		0	0	0	0	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
WMUDS/SWAT SWRCY HAULERS INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	1.000 1.000 1.000 1.000 1.000 1.000 1.000		0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	NR NR NR NR NR NR	0 0 0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
US HIST CDL HIST Cal-Sites SCH CDL Toxic Pits US CDL CERS HAZ WASTE	1.000 1.000 1.000 1.000 1.000 1.000		0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	NR NR NR NR NR NR	0 0 0 0 0 0
Local Lists of Registered	l Storage Tan	ıks						
SWEEPS UST HIST UST CA FID UST CERS TANKS	1.000 1.000 1.000 1.000		0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 0	NR NR NR NR	1 1 1 0
Local Land Records								
LIENS LIENS 2	1.000 1.000		0	0 0	0 0	0 0	NR NR	0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	1.000		0	0	0	0	NR	0
Records of Emergency F	Release Repo	rts						
HMIRS CHMIRS LDS MCS SPILLS 90	1.000 1.000 1.000 1.000 1.000		0 0 0 0	0 0 0 0	0 0 0 0	0 5 0 0	NR NR NR NR NR	0 5 0 0
Other Ascertainable Rec	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION TSCA TRIS SSTS ROD RMP RAATS PRP PADS 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 ECHO DOCKET HWC UXO	1.000 1.000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N N N N N N N N N N N N N N N N N N N	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FUELS PROGRAM CA BOND EXP. PLAN Cortese CUPA Listings DRYCLEANERS	1.000 1.000 1.000 1.000 1.000		0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI ENF Financial Assurance HAZNET ICE HIST CORTESE HWP HWT MINES MWMP NPDES PEST LIC PROC Notify 65 UIC WASTEWATER PITS WDS WIP NON-CASE INFO OTHER OIL GAS PROD WATER PONDS WELL STIM PROJ CERS SAMPLING POINT MILITARY PRIV SITES UIC GEO	1.000 1.000				0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 5 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3 0 6 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CIWQS PROJECT	1.000 1.000		0	0	0	14 0	NR NR	14 0
EDR HIGH RISK HISTORICA	AL RECORDS							
EDR Exclusive Records EDR MGP EDR Hist Auto EDR Hist Cleaner EDR RECOVERED GOVERN Exclusive Recovered Government		/ES	0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
RGA LF RGA LUST	1.000 1.000		0	0 0	0 0	0 0	NR NR	0
- Totals		0	0	0	1	61	0	62

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

Distance Elevation Site EDR ID Number Database(s) EPA ID Number

1 SOIL RETENTION PRODUCTS INC HAZNET S113100846 ESE 1765 WATSON RD N/A

ESE 1765 WATSON RD 1/4-1/2 ROMOLAND, CA 92585

0.488 mi. 2574 ft.

Relative: HAZNET:

 Higher
 envid:
 \$113100846

 Actual:
 Year:
 2016

 1420 ft.
 GEPAID:
 CAL000192061

 Contact:
 BRAD ENOCKSON

Telephone: 9519288477
Mailing Name: Not reported
Mailing Address: 1765 WATSON RD
Mailing City,St,Zip: PERRIS, CA 92571

Gen County: Riverside
TSD EPA ID: CAT000613927
TSD County: San Bernardino

Waste Category: Aqueous solution with total organic residues less than 10 percent Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.336

Cat Decode: Aqueous solution with total organic residues less than 10 percent Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Facility County: Riverside

envid: \$113100846 Year: 2015

GEPAID: CAL000192061
Contact: BRAD ENOCKSON
Telephone: 9519288477
Mailing Name: Not reported
Mailing Address: 1765 WATSON RD
Mailing City,St,Zip: PERRIS, CA 92571

Gen County: Riverside
TSD EPA ID: CAT000613927
TSD County: San Bernardino

Waste Category: Aqueous solution with total organic residues less than 10 percent Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.168
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Riverside

envid: \$113100846 Year: 2014

GEPAID: CAL000192061 Contact: SHANNON WILLIAMS

Telephone: 9519288477
Mailing Name: Not reported
Mailing Address: 1765 WATSON RD
Mailing City,St,Zip: PERRIS, CA 92571

Gen County: Riverside
TSD EPA ID: CAT000613927
TSD County: San Bernardino

Waste Category: Aqueous solution with total organic residues less than 10 percent Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SOIL RETENTION PRODUCTS INC (Continued)

S113100846

(H010-H129) Or (H131-H135)

0.1554 Tons: Not reported Cat Decode: Method Decode: Not reported Facility County: Riverside

S113100846 envid: Year: 2013

GEPAID: CAL000192061

Contact: BRAD ENOCKSON / PLANT GEN MGR

Telephone: 9519288477 Mailing Name: Not reported Mailing Address: 2501 STATE ST

Mailing City, St, Zip: CARLSBAD, CA 920080000

Gen County: Riverside TSD EPA ID: CAT000613927 TSD County: San Bernardino Waste Category: Not reported

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

0.315 Tons:

Cat Decode: Not reported Method Decode: Not reported Facility County: Not reported

envid: S113100846 Year: 2012

GEPAID: CAL000192061 Contact: JIM BLANKENSHIP Telephone: 9519288477 Mailing Name: Not reported Mailing Address: 2501 STATE ST

Mailing City, St, Zip: CARLSBAD, CA 920080000

Gen County: Riverside TSD EPA ID: CAT000613927 TSD County: San Bernardino Waste Category: Not reported

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.084 Cat Decode: Not reported Method Decode: Not reported Facility County: Riverside

> Click this hyperlink while viewing on your computer to access 11 additional CA_HAZNET: record(s) in the EDR Site Report.

ROMOLAND MDP LINE A. STAGE 3 INTERIM CHANNEL

MURRIETTA ROAD TO BARNETT ROAD

1/2-1 **PERRIS, CA 92585**

0.521 mi. 2749 ft.

2 wsw

Relative: CIWQS:

Lower Agency: Green Valley Recovery Acquisition LLC

Agency Address: 5796 Armada Drive Suite 375, Carlsbad, CA 92008 Actual: Place/Project Type: Construction - Other Linear: Interim Channel 1414 ft.

SIC/NAICS: Not reported CIWQS \$120711383

N/A

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ROMOLAND MDP LINE A, STAGE 3 INTERIM CHANNEL (Continued)

S120711383

Region: 8

CONSTW Program: Regulatory Measure Status: Active

Regulatory Measure Type: Storm water construction Order Number: 2009-0009-DWQ WDID: 8 33C379281 NPDES Number: CAS000002 Adoption Date: Not reported Effective Date: 03/24/2017 Termination Date: Not reported Expiration/Review Date: Not reported Not reported Design Flow: Major/Minor: Not reported Complexity: Not reported

Not reported Enforcement Actions within 5 years: Violations within 5 years:

Latitude: 33.750029 Longitude: -117.214878

А3 E.M.W.D. PERRIS PUMPING P HIST CORTESE \$104586817

1330 WATSON N/A

ESE 1/2-1 **PERRIS, CA 92370**

0.550 mi.

2902 ft. Site 1 of 4 in cluster A

TTWQ:

Relative: HIST CORTESE:

CORTESE Higher Region: Facility County Code: 33 Actual: Reg By: **LTNKA** 1420 ft. Reg Id: 083302605T

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY **RMP** 1011834333 Α4 N/A

1330 WATSON ROAD **ESE** 1/2-1 **PERRIS, CA 92570**

0.550 mi.

2904 ft. Site 2 of 4 in cluster A

Relative: RMP:

Higher Facility ID: 33523

Region VI LEPC LEPC city: Actual: Facility decimal latitude: 33.756000 1420 ft. Facility decimal longitude: -117.193111

> Is facility in county box: Т LatLong method: Α1 LatLong description: PG

Home page web address: Not reported Facility telephone: Not reported Facility email: Not reported

Facility DUNS #:

Eastern Municipal Water District Parent's name:

Partner's name: Not reported Parent's DUNS #: 47789870

Partner's DUNS #:

Operator's name: Eastern Municipal Water District

Operator's telephone: 9099283777

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1011834333

Operator's address: 2270 Trumble Road Operator's address2: PO Box 8300 Operators City, St, Zip: Perris, CA 92572 8300 RMP implementation contact: Anthony Pack RMP contact title: General Manager Dan Noblitt **Emergency contact:** Emergency contact title: Safety Officer Emergency contact telephone: 9099283777 24 hour emergency telephone: 9097325580 Emergency contact ext/pin #: 6265 Number of full time employees: 15

EPA ID: Not reported Facility ID provided by CEPPO: 100000089343

Is facility covered by OSHA PSM: Is facility covered by EPCRA 302: Т Is fac. covered by CAA Title V 112(2): Т Clean air op. permit/State ID: F47548

2003-09-15 00:00:00 Last safety insp. dat:

Inspected by: Cal/OSHA Is it OSHA approved with star/merit ranking: True Will RMP involve predictive filing: False Submission type: Resubmission RMP description: Not reported Facility has no accident hist. recs: True Foreign owner's address: Not reported Foreign owner's zip: Not reported Foreign owner's country: Not reported Claim # of employees as CBI: False

2004-07-20 00:00:00 Date RMP accepted by EPA: Date of error Report: Not reported

Date RMP received: 2004-06-21 00:00:00

Does RMP contain graphics files: False Does RMP contain attachments: False Was certification letter received: True RMP*Submit RMP submission method: Does RMP contain CBI substantiation: False

Does RMP contain electronic waiver: False

2004-06-18 00:00:00 Date RMP postmarked:

Is RMP complete: True Not reported Date of de-registration: Date de-registration is effective: Not reported 2009-06-18 00:00:00 Aniversary date:

Does RMP contain CBI data: False Does RMP contain unsanitized CBI version: False RMP version #: 3.1 FRS latitude: 33.756 FRS longitude: -117.19311

FRS Description: PLANT ENTRANCE (GENERAL)

ZIP CODE-CENTROID FRS Method:

RMP:

Process ID: 48343

NA & Industry Classification Sys.code(s): 22132

NAICS code description: Sewage Treatment Facilities

Chlrorination Optional facility description:

Program level: Record contains CBI data: False

Direction Distance Elevation

vation Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1011834333

EDR ID Number

RMP:

Chemical name: Public OCA Chemical

Process chemical qty in 100s lbs: 0

Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: 100 Physical state: c

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported

Wind speed in meters/second: 3
Stability class: D
Topography: b

Distance to endpoint in miles:

Residential population:

Public receptors:

Environmental receptors:

Passive mitigation:

Not reported

Not reported

Not reported

Not reported

Active mitigation: Excess flow valve, Emergency shutdown, Operator action

Percent weight of chemical: 100 Physical state: c

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported

Wind speed in meters/second: 3
Stability class: D
Topography: b

Distance to endpoint in miles:
Residential population:

Public receptors:

Environmental receptors:

Not reported
Not reported
Not reported
Not reported
Enclosures

Active mitigation: Excess flow valve, Emergency shutdown, Operator Action

RMP:

Percent weight of chemical: 100 Physical state: c

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported Quantity released in pounds: Not reported

Release duration in minutes: 10

Release rate in pounds per second: Not reported

Wind speed in meters/second: 1.5 Stability class: F Topography: b

Distance to endpoint in miles:

Residential population:

Public receptors:

Environmental receptors:

Passive mitigation:

Not reported

Not reported

Not reported

Enclosures, Sumps

RMP:

Endpoint used: Not reported

Map ID MAP FINDINGS
Direction

Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1011834333

EDR ID Number

LFL value: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Passive mitigation: Not reported Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

Safety review date: Not reported Most recent PHA date: Not reported Process Hazard Analysis: Not reported Expected PHA changes completion date: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Training: Not reported Not reported Competency testing: Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Not reported Equipment tested: Most recent changes by mgmt: Not reported Date of most recent review/update: Not reported Date of pre-start review: Not reported Most recent compliance audit date: Not reported Not reported Expected date of audit completion: Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Date of participation plan review: Not reported Date of hot work permit review: Not reported Date of contractor safety review: Not reported Not reported Date of contractor safety eval. review: Record has CBI data: Not reported Safety review date: Not reported Federal Regulation: Not reported Federal regulation comment: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent hazard review/update: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1011834333

EDR ID Number

Expected completion of review changes: Not reported Not reported Training: Not reported Competency testing: Not reported Most recent maintenance review date: Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Not reported Record has CBI data: Date of most recent changes: Not reported

Chemical name: Chlorine
Process chemical qty in 100s lbs: 108000
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported Physical state: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported Wind speed in meters/second: Not reported Stability class: Not reported Topography: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Not reported Passive mitigation: Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported Physical state: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Release duration in minutes: Not reported Not reported Release rate in pounds per second: Wind speed in meters/second: Not reported Stability class: Not reported Not reported Topography: Not reported Distance to endpoint in miles: Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Passive mitigation: Not reported

RMP:

Endpoint used:

LFL value:

Analytical basic:

Scenario:

Quantity released in pounds:

Distance to endpoint in miles:

Residential population:

Not reported

Not reported

Not reported

Not reported

Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1011834333

EDR ID Number

Public receptors:

Environmental receptors:

Passive mitigation:

Active mitigation:

Not reported

Not reported

Not reported

Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

Safety review date: Not reported Most recent PHA date: Not reported Process Hazard Analysis: Not reported Expected PHA changes completion date: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Training: Not reported Not reported Competency testing: Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Not reported Equipment tested: Most recent changes by mgmt: Not reported Date of most recent review/update: Not reported Date of pre-start review: Not reported Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Not reported Most recent incident investigation: Expected date of investigation changes: Not reported Date of participation plan review: Not reported Date of hot work permit review: Not reported Date of contractor safety review: Not reported Date of contractor safety eval. review: Not reported Record has CBI data: Not reported Safety review date: Not reported Federal Regulation: Not reported Federal regulation comment: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent hazard review/update: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Expected completion of review changes: Not reported Training: Not reported Competency testing: Not reported Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Equipment tested: Not reported

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1011834333

Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Record has CBI data: Not reported Date of most recent changes: Not reported

RMP:

ER plan: Not reported

ER plan most recent review date: 2004-03-02 00:00:00 ER plan most recent employee training date: 2004-03-03 00:00:00 Local agency coordinating ER plan: Riverside County Telephone of the coordinating local agency: 9097652465

Federal regulation: True OSHA 1910 120: True SPCC: True RCRA: False OPA 90: False EPCRA: True Other Regulations: Not reported

Α5 **PERRIS VALLEY RWRF RMP** 1011834334 **ESE** 1330 WATSON ROAD N/A

1/2-1 0.550 mi.

Site 3 of 4 in cluster A 2904 ft.

PERRIS, CA 92570

Relative: RMP: Higher Facility ID: 6732

LEPC city: Region VI LEPC Actual:

Facility decimal latitude: 33.756 1420 ft. Facility decimal longitude: -117.193111

> Is facility in county box: LatLong method: Z1 LatLong description: PG Home page web address:

Not reported Facility telephone: Not reported Facility email: Not reported

Facility DUNS #:

Parent's name: Eastern Municipal Water District

Partner's name: Not reported Parent's DUNS #: 47789870 Partner's DUNS #:

Operator's name: Eastern Municipal Water District

Operator's telephone: 9099283777 Operator's address: 2270 Trumble Road Operator's address2: PO Box 8300

Operators City, St, Zip: Perris, CA 92572 8300 RMP implementation contact: John B. Brudin RMP contact title: General Manager Emergency contact: Dan Noblitt Emergency contact title: Safety Officer Emergency contact telephone: 9099283777 24 hour emergency telephone: 9099283777 Emergency contact ext/pin #: 6265 Number of full time employees: 15

EPA ID:

Not reported Facility ID provided by CEPPO: 100000089343

MAP FINDINGS Map ID

Direction Distance

Elevation Site **EPA ID Number** Database(s)

PERRIS VALLEY RWRF (Continued)

1011834334

EDR ID Number

Is facility covered by OSHA PSM: Т Т Is facility covered by EPCRA 302: Is fac. covered by CAA Title V 112(2): Т Clean air op. permit/State ID: Pending

1999-04-01 00:00:00 Last safety insp. dat:

Cal/OSHA Inspected by: Is it OSHA approved with star/merit ranking: False Will RMP involve predictive filing: False Submission type: First Time RMP description: Not reported Facility has no accident hist. recs: True

Foreign owner's address: Not reported Foreign owner's zip: Not reported Foreign owner's country: Not reported Claim # of employees as CBI: False

Date RMP accepted by EPA: 1999-07-06 00:00:00

Not reported Date of error Report:

Date RMP received: 1999-06-21 00:00:00

Does RMP contain graphics files: False Does RMP contain attachments: False Was certification letter received: True RMP submission method: RMP*Submit Does RMP contain CBI substantiation: False Does RMP contain electronic waiver: False

Date RMP postmarked: 1999-06-19 00:00:00

Is RMP complete: True Date of de-registration: Not reported

Date de-registration is effective: Not reported Aniversary date:

2004-06-19 00:00:00

Does RMP contain CBI data: False Does RMP contain unsanitized CBI version: False RMP version #: 1.1.7 FRS latitude: 33.756 FRS longitude: -117.19311

PLANT ENTRANCE (GENERAL) FRS Description:

ZIP CODE-CENTROID FRS Method:

RMP:

Process ID: 8103

NA & Industry Classification Sys.code(s): 22132

NAICS code description: Sewage Treatment Facilities

Optional facility description: Chlrorination

Program level: Record contains CBI data: False

RMP:

Chemical name: Public OCA Chemical

Process chemical qty in 100s lbs:

Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: 100 Physical state:

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported

Direction Distance Elevation

evation Site Database(s) EPA ID Number

PERRIS VALLEY RWRF (Continued)

1011834334

EDR ID Number

Wind speed in meters/second: 2.5 Stability class: D Topography: b

Distance to endpoint in miles:

Residential population:

Public receptors:

Environmental receptors:

Passive mitigation:

Not reported

Not reported

Not reported

Not reported

Not reported

Active mitigation: Excess flow valve, Emergency shutdown, Operator action

RMP:

Percent weight of chemical: 100 Physical state: c

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported Quantity released in pounds: Not reported

Release duration in minutes: 10

Release rate in pounds per second: Not reported

Wind speed in meters/second: 1.5
Stability class: F
Topography: b

Distance to endpoint in miles:

Residential population:

Public receptors:

Environmental receptors:

Passive mitigation:

Not reported

Not reported

Not reported

Enclosures, Sumps

RMP:

Endpoint used: Not reported LFL value: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Passive mitigation: Not reported Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

Safety review date: Not reported Most recent PHA date: Not reported Process Hazard Analysis: Not reported Expected PHA changes completion date: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported

Direction
Distance
Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY RWRF (Continued)

1011834334

EDR ID Number

Training: Not reported Not reported Competency testing: Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent changes by mgmt: Not reported Date of most recent review/update: Not reported Date of pre-start review: Not reported Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Most recent incident investigation: Not reported Not reported Expected date of investigation changes: Date of participation plan review: Not reported Date of hot work permit review: Not reported Date of contractor safety review: Not reported Date of contractor safety eval. review: Not reported Record has CBI data: Not reported Safety review date: Not reported Federal Regulation: Not reported Federal regulation comment: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Not reported Most recent hazard review/update: Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Expected completion of review changes: Not reported Training: Not reported Competency testing: Not reported Most recent maintenance review date: Not reported Not reported Most recent equipment inspection date: Equipment tested: Not reported Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Record has CBI data: Not reported Date of most recent changes: Not reported

Chemical name: Chlorine
Process chemical qty in 100s lbs: 110400
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported Physical state: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported Wind speed in meters/second: Not reported Stability class: Not reported Topography: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported

Direction
Distance
Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY RWRF (Continued)

1011834334

EDR ID Number

Environmental receptors: Not reported Passive mitigation: Not reported Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported Physical state: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported Not reported Wind speed in meters/second: Stability class: Not reported Topography: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Not reported Public receptors: Not reported Environmental receptors: Passive mitigation: Not reported

RMP:

Endpoint used: Not reported LFL value: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Not reported Passive mitigation: Active mitigation: Not reported

RMP:

Analytical basic:

Quantity released in pounds:
Distance to endpoint in miles:
Residential population:
Public receptors:
Environmental receptors:
Passive mitigation:
Not reported
Not reported
Not reported
Not reported
Not reported

Safety review date: Not reported Most recent PHA date: Not reported Process Hazard Analysis: Not reported Expected PHA changes completion date: Not reported Not reported Major Hazard: Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Training: Not reported Competency testing: Not reported Not reported Most recent maintenance review date: Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent changes by mgmt: Not reported

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

PERRIS VALLEY RWRF (Continued)

1011834334

Date of most recent review/update: Not reported Date of pre-start review: Not reported Not reported Most recent compliance audit date: Not reported Expected date of audit completion: Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Date of participation plan review: Not reported Date of hot work permit review: Not reported Date of contractor safety review: Not reported Date of contractor safety eval. review: Not reported Record has CBI data: Not reported Not reported Safety review date: Federal Regulation: Not reported Federal regulation comment: Not reported Major Hazard: Not reported Process Control: Not reported Not reported Mitigation Systems: Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent hazard review/update: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Expected completion of review changes: Not reported Training: Not reported Competency testing: Not reported Not reported Most recent maintenance review date: Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent compliance audit date: Not reported Not reported Expected date of audit completion: Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Record has CBI data: Not reported Date of most recent changes: Not reported

RMP:

ER plan: Not reported

ER plan most recent review date:

ER plan most recent employee training date:

Local agency coordinating ER plan:

Telephone of the coordinating local agency:

1999-05-28 00:00:00

1999-05-28 00:00:00

Riverside County

9097912200

| State | Stat

Direction Distance

Elevation Site Database(s) EPA ID Number

A6 E.M.W.D. PERRIS PUMPING PLANT LUST S102429236
ESE 1330 WATSON RD N/A

1330 WATSON RD PERRIS, CA 92570

0.550 mi.

1/2-1

2904 ft. Site 4 of 4 in cluster A

Relative: LUST REG 8: Higher Region:

Higher Region: 8
Actual County: Ri

Actual: County: Riverside

1420 ft. Regional Board: Santa Ana Region
Facility Status: Case Closed

Case Number: 083302605T Not reported Local Case Num: Aquifer affected Case Type: Hydraulic Oil Substance: Qty Leaked: Not reported Abate Method: Not reported Cross Street: CASE RD. Enf Type: **CLOS** Funding: Not reported How Discovered: Tank Closure How Stopped: Not reported UNK

Leak Cause: Not reported Leak Source: Global ID: T0606500409 How Stopped Date: 1/17/1994 Enter Date: 2/3/1995 Date Confirmation of Leak Began: Not reported Date Preliminary Assessment Began: Not reported Discover Date: 1/4/1995 **Enforcement Date:** Not reported 8/24/1995 Close Date:

Date Prelim Assessment Workplan Submitted: Not reported Date Pollution Characterization Began: Not reported Date Remediation Plan Submitted: Not reported Date Remedial Action Underway: Not reported Date Post Remedial Action Monitoring: Not reported Enter Date: 2/3/1995 **GW Qualifies:** Not reported Soil Qualifies: Not reported Not reported Operator:

Facility Contact:

Interim:

Oversite Program:

Lust

Latitude:

Longitude:

Mot reported

34.3502267

Longitude:

-117.2493057

MTBE Date:

Mot reported

Not reported

Not reported

Not reported

MTBE Concentration:

Max MTBE Soil:

Not reported

MTBE Fuel:

MTBE Tested: Not Required to be Tested.

MTBE Class:

Staff: NOM
Staff Initials: UNK
Lead Agency: Local Agency
Local Agency: 33000L

Hydr Basin #: UPPER MOJAVE RIVER V

Beneficial: Not reported

EDR ID Number

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

E.M.W.D. PERRIS PUMPING PLANT (Continued)

Priority: Not reported Cleanup Fund Id: Not reported Work Suspended: Not reported

Summary: Not reported

PERRIS VALLEY WATER RECLAMATIO HIST UST U001574999 **B7 ESE**

26560 WATSON ROAD N/A

1/2-1 **SUN CITY, CA 92343**

0.589 mi.

3110 ft. Site 1 of 4 in cluster B

HIST UST: Relative: Higher File Number: 0001F62C

URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001F62C.pdf Actual:

Region: STATE 1419 ft. 00000030921 Facility ID: Facility Type: Other

> Other Type: WATER RECLAMATION PL

Contact Name: Not reported Telephone: 000000000

EASTERN MUNICIPAL WATER DIST. Owner Name:

Owner Address: 24550 SAN JACINTO STREET

Owner City, St, Zip: **HEMET, CA 92343**

Total Tanks: 0002

Tank Num: 001 Container Num: 9702 Year Installed: 1982 00000250 Tank Capacity: Tank Used for: **PRODUCT** Type of Fuel: Not reported Container Construction Thickness: Not reported Leak Detection: None

Tank Num: 002 9702 W Container Num: Year Installed: 1982 Tank Capacity: 00000250 Tank Used for: WASTE Type of Fuel: WASTE OIL Container Construction Thickness: Not reported

Leak Detection: None

Click here for Geo Tracker PDF:

S101590188 **B8 EMWD PERRIS VALLEY WATER/RECLAMATION PLANT SWEEPS UST**

26560 WATSON RD ESE 1/2-1 **SUN CITY, CA 92343**

0.589 mi.

3110 ft. Site 2 of 4 in cluster B

SWEEPS UST: Relative: Higher

Active Status: Comp Number: 30921 Actual: 1419 ft. Number: 4

Board Of Equalization: 44-018137

N/A

CA FID UST

S102429236

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

EMWD PERRIS VALLEY WATER/RECLAMATION PLANT (Continued)

S101590188

EDR ID Number

Referral Date: 10-29-92 Action Date: 10-29-92 Created Date: 02-29-88 Owner Tank Id: 000107

33-000-030921-000001 SWRCB Tank Id:

Tank Status: 250 Capacity: Active Date: 10-29-92 Tank Use: **PETROLEUM**

STG:

MOTOR OIL Content:

Number Of Tanks: 2

Status: Active Comp Number: 30921 Number:

Board Of Equalization: 44-018137 Referral Date: 10-29-92 Action Date: 10-29-92 02-29-88 Created Date: Owner Tank Id: 000107

33-000-030921-000002 SWRCB Tank Id: Α

Tank Status:

Capacity: 250 10-29-92 Active Date: Tank Use: OIL STG: W

WASTE OIL Content: Number Of Tanks: Not reported

CA FID UST:

Facility ID: 33006602 **UTNKA** Regulated By: Regulated ID: 00030921 Cortese Code: Not reported SIC Code: Not reported Facility Phone: Not reported Mail To: Not reported

24550 SAN JACINTO Mailing Address:

Mailing Address 2: Not reported Mailing City, St, Zip: **SUN CITY 92343** Contact: Not reported Contact Phone: Not reported Not reported **DUNs Number:** NPDES Number: Not reported EPA ID: Not reported Comments: Not reported Active Status:

Direction Distance

Elevation Site Database(s) EPA ID Number

B9 EASTERN MUNICIPAL WATER DIST EMI \$106830450 ESE 26560 WATSON RD N/A

4941

1/2-1 PERRIS, CA 92370

0.607 mi.

3204 ft. Site 3 of 4 in cluster B

SIC Code:

 Relative:
 EMI:

 Higher
 Year:
 1990

 Actual:
 County Code:
 33

 1419 ft.
 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 11
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 3
NOX - Oxides of Nitrogen Tons/Yr: 27
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

 Year:
 1993

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 12
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 5
NOX - Oxides of Nitrogen Tons/Yr: 31
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

 Year:
 1995

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 12
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 5
NOX - Oxides of Nitrogen Tons/Yr: 31
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

B10 EASTERN MUNICIPAL WATER DIST-PERRIS US AIRS 1005496340
ESE 1301 CASE RD N/A

ESE 1301 CASE RD 1/2-1 PERRIS, CA 92570

0.607 mi.

3204 ft. Site 4 of 4 in cluster B

Relative: US AIRS (AFS): Higher Envid: 1005496340

 Actual:
 Region Code:
 09

 1419 ft.
 County Code:
 CA065

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793 D and B Number: Not reported

Facility Site Name: EASTERN MUNICIPAL WATER DIST-PERRIS

Primary SIC Code: 4952

NAICS Code: 221310

Default Air Classification Code: MAJ

Facility Type of Ownership Code: CTG

Air CMS Category Code: TVM

HPV Status: Not reported

US AIRS (AFS):

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2015-09-30 00:00:00
Activity Status Date: 2015-10-09 18:07:04
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793
Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2015-09-30 00:00:00
Activity Status Date: 2015-10-09 18:11:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-06-03 00:00:00
Activity Status Date: 2016-07-29 12:17:40
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2016-07-06 00:00:00
Activity Status Date: 2016-07-29 12:21:56
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 1997-08-01 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2003-05-20 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2004-06-23 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2005-08-04 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2007-10-16 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2008-07-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-05-18 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2009-05-19 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-02-26 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-03-22 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2010-07-13 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-02-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-07-09 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Activity Date: 2011-07-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-09-06 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2011-09-07 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-02-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-07-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-10-11 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2012-10-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2014-02-26 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2014-09-17 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2014-09-24 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Activity Date: 2014-09-25 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-02-17 00:00:00
Activity Status Date: 2015-10-09 18:08:35
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-06-24 00:00:00
Activity Status Date: 2015-10-09 18:10:05
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-06-24 00:00:00
Activity Status Date: 2016-07-29 12:16:49
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-09-30 00:00:00
Activity Status Date: 2015-10-09 18:07:04
Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2015-09-30 00:00:00
Activity Status Date: 2015-10-09 18:11:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-06-03 00:00:00
Activity Status Date: 2016-07-29 12:17:40
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-07-06 00:00:00
Activity Status Date: 2016-07-29 12:21:56
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Active

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2003-05-20 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits

Direction Distance Elevation

vation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Activity Date: 2004-06-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2005-08-04 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2007-10-16 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2008-07-25 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code:

Default Air Classification Code:

Air Program:

Title V Permits

Activity Date: 2009-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Activity Status: Not reported

Region Code: 09

Activity Type:

Programmatic ID: AIR CASCA00006065C0742

Inspection/Evaluation

Facility Registry ID: 110002063793

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2009-05-19 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-02-26 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-03-01 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-03-22 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2010-07-13 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-02-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-03-01 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-07-09 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-07-19 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-09-06 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2011-09-07 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-02-24 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-03-03 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-07-12 00:00:00

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits

Direction Distance Elevation

vation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Activity Date: 2012-10-11 00:00:00
Activity Status Date: Not reported
Activity Crouncy Compliance Manifesting

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2012-10-12 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-02-26 00:00:00
Activity Status Date: Net reported

Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-09-17 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

Activity Date: 2014-09-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST-PERRIS (Continued)

1005496340

EDR ID Number

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2014-09-25 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

Region Code: 09

Programmatic ID: AIR CASCA00006065C0742

Facility Registry ID: 110002063793

Air Operating Status Code: OPR
Default Air Classification Code: MAJ

Air Program: Title V Permits
Activity Date: 2016-01-21 00:00:00
Activity Status Date: Not reported

Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Activity Status: Not reported

EASTERN MUN WATER DIST
26610 WATSON RD

EMI S106830451
N/A

1987

ESE 26610 WATSON RD 1/2-1 ROMOLAND, CA 92343

0.634 mi. 3345 ft.

11

Relative: EMI:
Higher Year:
Actual: County Code:
1421 ft. Air Basin:

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4953

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 3
Reactive Organic Gases Tons/Yr: 2
Carbon Monoxide Emissions Tons/Yr: 4
NOX - Oxides of Nitrogen Tons/Yr: 8
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

12 PERRIS VALLEY LINE LAYOVER FACILITY CIWQS \$120711104 NE 1304 CASE ROAD N/A

1/2-1 PERRIS, CA 92570

0.652 mi. 3444 ft.

Relative: CIWQS:
Higher Agency: Southern California Regional Rail Authority

Actual: Agency Address: One Gateway Plaza 12th Floor, Los Angeles, CA 90012

1417 ft. Place/Project Type: Industrial - Railroad Switching and Terminal Establishments

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PERRIS VALLEY LINE LAYOVER FACILITY (Continued)

S120711104

S121183818

N/A

NPDES

CIWQS

SIC/NAICS: 4013 Region: 8 Program: **INDSTW** Regulatory Measure Status: Active

Regulatory Measure Type: Storm water industrial Order Number: 2014-0057-DWQ WDID: 8 331027072 NPDES Number: CAS000001 Adoption Date: Not reported Effective Date: 03/07/2017 Termination Date: Not reported Expiration/Review Date: Not reported Design Flow: Not reported Major/Minor: Not reported Complexity: Not reported Not reported TTWQ:

Enforcement Actions within 5 years: 0 Violations within 5 years: 0

Latitude: 33.761032 -117.199901 Longitude:

13 **GREEN VALLEY TRACT 36988** SSW **APPROXIMATELY 26065 ETHANAC ROAD**

Facility Status:

1/2-1 **PERRIS, CA 92585**

0.697 mi. 3682 ft.

Lower

Relative: NPDES:

NPDES Number: Not reported Actual: Region: Not reported 1415 ft. Agency Number: Not reported Regulatory Measure ID: Not reported

Place ID: Not reported Order Number: Not reported WDID: 8 33C380935 Regulatory Measure Type: Construction Not reported Program Type: Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Not reported Discharge Address: Discharge Name: Not reported Discharge City: Not reported Discharge State: Not reported Discharge Zip: Not reported Status: Active Status Date: 08/31/2017

Operator Name: Green Valley Recovery Acquisition LLC

Not reported

Operator Address: 5796 Armada Drive

Operator City: Carlsbad Operator State: California Operator Zip: 92008

NPDES as of 03/2018:

NPDES Number: CAS000002 Active Status:

Direction Distance Elevation

Site Database(s) EPA ID Number

GREEN VALLEY TRACT 36988 (Continued)

S121183818

EDR ID Number

 Agency Number:
 0

 Region:
 8

 Regulatory Measure ID:
 490445

Termination Date Of Regulatory Measure:

2009-0009-DWQ Order Number: Regulatory Measure Type: Enrollee Place ID: Not reported WDID: 8 33C380935 Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 08/31/2017 Expiration Date Of Regulatory Measure: Not reported

Discharge Name: Green Valley Recovery Acquisition LLC

Not reported

Not reported

Not reported

Discharge Address: 5796 Armada Drive

Discharge City: Carlsbad Discharge State: California Discharge Zip: 92008 Received Date: Not reported Processed Date: Not reported Status: Not reported Status Date: Not reported Place Size: Not reported Place Size Unit: Not reported Contact: Not reported Contact Title: Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Contact Email: Not reported Operator Name: Not reported Not reported Operator Address: Operator City: Not reported Operator State: Not reported Operator Zip: Not reported **Operator Contact:** Not reported Not reported Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Operator Contact Email: Not reported Operator Type: Not reported Developer: Not reported Developer Address: Not reported Developer City: Not reported Developer State: Not reported Developer Zip: Not reported **Developer Contact:** Not reported **Developer Contact Title:** Not reported Constype Linear Utility Ind: Not reported **Emergency Phone:** Not reported Emergency Phone Ext: Not reported Constype Above Ground Ind: Not reported Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Constype Electrical Line Ind: Not reported

Constype Gas Line Ind:

Constype Industrial Ind:

Distance Elevation

Site Database(s) EPA ID Number

GREEN VALLEY TRACT 36988 (Continued)

S121183818

EDR ID Number

Constype Other Description: Not reported Not reported Constype Other Ind: Constype Recons Ind: Not reported Constype Residential Ind: Not reported Constype Transport Ind: Not reported Constype Utility Description: Not reported Constype Utility Ind: Not reported Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Certifier: Not reported Certifier Title: Not reported Certification Date: Not reported Primary Sic: Not reported Secondary Sic: Not reported **Tertiary Sic:** Not reported

Facility Status: Active
NPDES Number: CAS000002

Region: 8 Agency Number: 0 Regulatory Measure ID: 490445 Place ID: Not reported Order Number: 2009-0009-DWQ 8 33C380935 WDID: Regulatory Measure Type: Enrollee Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 08/31/2017 Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Discharge Address: 5796 Armada Drive

Discharge Name: Green Valley Recovery Acquisition LLC

Discharge City: Carlsbad Discharge State: California Discharge Zip: 92008 Status: Not reported Status Date: Not reported Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: CAS000002
Status: Active
Agency Number: 0
Region: 8
Regulatory Measure ID: 490445

Order Number: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 8 33C380935

Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 08/31/2017

Distance Elevation Site

Site Database(s)

S121183818

EDR ID Number

EPA ID Number

GREEN VALLEY TRACT 36988 (Continued)

Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported

Discharge Name: Green Valley Recovery Acquisition LLC

Discharge Address: 5796 Armada Drive

Discharge City: Carlsbad Discharge State: California Discharge Zip: 92008 Received Date: Not reported Processed Date: Not reported Status: Not reported Status Date: Not reported Place Size: Not reported Place Size Unit: Not reported Contact: Not reported Contact Title: Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Contact Email: Not reported Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Not reported Operator Zip: **Operator Contact:** Not reported Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Not reported Operator Contact Email: Not reported Operator Type: Not reported Developer: Not reported Developer Address: Not reported Developer City: Not reported **Developer State:** Not reported Developer Zip: Not reported **Developer Contact:** Not reported **Developer Contact Title:** Not reported Constype Linear Utility Ind: Not reported **Emergency Phone:** Not reported Emergency Phone Ext: Not reported Constype Above Ground Ind: Not reported Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Constype Electrical Line Ind: Not reported Constype Gas Line Ind: Not reported Constype Industrial Ind: Not reported Constype Other Description: Not reported Constype Other Ind: Not reported Constype Recons Ind: Not reported Constype Residential Ind: Not reported Constype Transport Ind: Not reported Constype Utility Description: Not reported Constype Utility Ind: Not reported Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

GREEN VALLEY TRACT 36988 (Continued)

S121183818

EDR ID Number

Certifier:

Certifier Title:

Certification Date:

Primary Sic:

Secondary Sic:

Tertiary Sic:

Not reported

CIWQS:

Agency: Green Valley Recovery Acquisition LLC

Agency Address: 5796 Armada Drive Suite 375, Carlsbad, CA 92008

Place/Project Type: Construction - Residential

SIC/NAICS: Not reported

Region: 8

Program: CONSTW Regulatory Measure Status: Active

Regulatory Measure Type: Storm water construction Order Number: 2009-0009-DWQ

WDID: 8 33C380935 NPDES Number: CAS000002 Adoption Date: Not reported Effective Date: 08/31/2017 Termination Date: Not reported Not reported Expiration/Review Date: Not reported Design Flow: Major/Minor: Not reported Complexity: Not reported TTWQ: Not reported

Enforcement Actions within 5 years: 0
Violations within 5 years: 0

Latitude: 33.744317 Longitude: -117.211789

C14 EMWD PERRIS VALLEY RWR

ESE 1330 WATSON RD 1/2-1 PERRIS, CA 92570

0.699 mi.

3693 ft. Site 1 of 2 in cluster C

Relative: FINDS:

Higher

Actual: Registry ID: 110066657326

1421 ft.

Environmental Interest/Information System

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

TC5391347.2s Page 44

FINDS

1023368060

N/A

Direction Distance

Distance EDR ID Number
Elevation Site EPA ID Number

C15 E.M.W.D. PERRIS PUMPING PLANT FINDS 1023347296

N/A

ESE 1330 E WATSON RD 1/2-1 PERRIS, CA 92570

0.699 mi.

3693 ft. Site 2 of 2 in cluster C

Relative: FINDS:

Higher

Actual: Registry ID: 110066433363

1421 ft.

Environmental Interest/Information System

STATE MASTER

Click this hyperlink while viewing on your computer to access

additional FINDS: detail in the EDR Site Report.

16 PERRIS VALLEY RWRF CIWQS S120033021
North 1301 CASE ROAD N/A

North 1301 CASE ROAD 1/2-1 PERRIS, CA 92570

0.704 mi. 3718 ft.

 Relative:
 CIWQS:

 Lower
 Agency:
 Eastern Municipal Water District

 Actual:
 Agency Address:
 Po Box 8300, Perris, CA 92572-8300

 1414 ft.
 Place/Project Type:
 Wastewater Treatment Facility

SIC/NAICS: 4952 Region: 8

Program: WDRMUNILRG

Regulatory Measure Status: Active
Regulatory Measure Type: WDR
Order Number: R8-2008-0008

 WDID:
 8 332783001

 NPDES Number:
 Not reported

 Adoption Date:
 09/05/2008

 Effective Date:
 09/05/2008

 Termination Date:
 Not reported

 Expiration/Review Date:
 09/05/2018

Design Flow: 50
Major/Minor: Not reported

Complexity: A
TTWQ: 2
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.76375
Longitude: -117.20571

Agency: Eastern Municipal Water District Agency Address: PO Box 8300, Perris, CA 92570

Place/Project Type: Industrial SIC/NAICS: Not reported Region: 8
Program: INDSTW
Regulatory Measure Status: Terminated

Regulatory Measure Type: Storm water industrial Order Number: 2014-0057-DWQ WDID: 8 331000857 NPDES Number: CAS000001 Adoption Date: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

PERRIS VALLEY RWRF (Continued)

S120033021

1012077307

N/A

FINDS

ECHO

EDR ID Number

Effective Date: 03/23/1992
Termination Date: 09/01/2004
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported

Enforcement Actions within 5 years: 0
Violations within 5 years: 0

Latitude: Not reported Longitude: Not reported

D17 EMWD - PERRIS VALLEY RWRF

ENE 1301 CASE ROAD 1/2-1 PERRIS, CA 92570

0.705 mi.

3723 ft. Site 1 of 18 in cluster D

Relative: FINDS:

Higher

Actual: Registry ID: 110038863441

1419 ft.

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

program staff to track the notification, permit, compliance, and

corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1012077307 Registry ID: 110038863441

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110038863441

 D18
 DOUGS TOUG INC
 HAZNET
 \$113462139

 ENE
 1301 CASE RD
 N/A

1/2-1 PERRIS, CA 92570

0.705 mi.

3723 ft. Site 2 of 18 in cluster D

Relative: HAZNET:

 Higher
 envid:
 \$113462139

 Actual:
 Year:
 2010

1419 ft. GEPAID: CAC002656635

Contact: ERIC MARTINEZ
Telephone: 5628612345
Mailing Name: Not reported

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

DOUGS TOUG INC (Continued)

S113462139

Mailing Address: 13 MADRIGAL

Mailing City, St, Zip: SAN CLEMENTE, CA 926732735

Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Other organic solids

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 1.5

Cat Decode: Not reported Method Decode: Not reported Facility County: Riverside

envid: \$113462139 Year: 2010

GEPAID: CAC002656635
Contact: ERIC MARTINEZ
Telephone: 5628612345
Mailing Name: Not reported
Mailing Address: 13 MADRIGAL

Mailing City, St, Zip: SAN CLEMENTE, CA 926732735

Gen County: Not reported
TSD EPA ID: CAD981696420
TSD County: Not reported
Waste Category: Other organic solids

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

1996

(H010-H129) Or (H131-H135)

Tons: 0.1

Cat Decode: Not reported Method Decode: Not reported Facility County: Riverside

D19 EASTERN MUNICIPAL WATER DIST

ENE 1301 CASE RD 1/2-1 PERRIS, CA 92570

0.705 mi.

3723 ft. Site 3 of 18 in cluster D

Relative: EMI: Higher Year:

 Actual:
 County Code:
 33

 1419 ft.
 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 3
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2002 County Code: 33 **EMI**

NPDES

CIWQS

1005775210

N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

Air Basin: SC Facility ID: 7417 Air District Name: SC SIC Code: 4952

SOUTH COAST AQMD Air District Name:

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 49 Reactive Organic Gases Tons/Yr: 10 Carbon Monoxide Emissions Tons/Yr: 8 NOX - Oxides of Nitrogen Tons/Yr: 6 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: 0 Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 2003 County Code: 33 Air Basin: SC Facility ID: 7417 Air District Name: SC SIC Code: 4952

SOUTH COAST AQMD Air District Name:

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 49 Reactive Organic Gases Tons/Yr: 10 Carbon Monoxide Emissions Tons/Yr: 8 NOX - Oxides of Nitrogen Tons/Yr: 6 SOX - Oxides of Sulphur Tons/Yr: 0 Particulate Matter Tons/Yr: 0 Part. Matter 10 Micrometers and Smllr Tons/Yr:0

2004 Year: County Code: 33 SC Air Basin: 7417 Facility ID: Air District Name: SC SIC Code: 4952

SOUTH COAST AQMD Air District Name: Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 48.7926115 Reactive Organic Gases Tons/Yr: 8.33 Carbon Monoxide Emissions Tons/Yr: 8.36435 NOX - Oxides of Nitrogen Tons/Yr: 6.3006 SOX - Oxides of Sulphur Tons/Yr: 0.011015 Particulate Matter Tons/Yr: 0.00368

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

2005 Year: County Code: 33 Air Basin: SC Facility ID: 7417 Air District Name: SC SIC Code: 4952

SOUTH COAST AQMD Air District Name:

Community Health Air Pollution Info System: Not reported

Direction Distance Elevation

ce EDR ID Number ion Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 10.31035
Reactive Organic Gases Tons/Yr: 3.977343756
Carbon Monoxide Emissions Tons/Yr: 10.724
NOX - Oxides of Nitrogen Tons/Yr: 5.903
SOX - Oxides of Sulphur Tons/Yr: .02307
Particulate Matter Tons/Yr: .3568
Part. Matter 10 Micrometers and Smllr Tons/Yr:.3546592

 Year:
 2006

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4952

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 40.29388563077844592

Reactive Organic Gases Tons/Yr: 9.31
Carbon Monoxide Emissions Tons/Yr: 6.895
NOX - Oxides of Nitrogen Tons/Yr: 4.121
SOX - Oxides of Sulphur Tons/Yr: .017
Particulate Matter Tons/Yr: .23
Part. Matter 10 Micrometers and Smllr Tons/Yr:.228668

 Year:
 2007

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4952

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 40.29174702799682268

Reactive Organic Gases Tons/Yr: 9.31
Carbon Monoxide Emissions Tons/Yr: 6.895
NOX - Oxides of Nitrogen Tons/Yr: 4.121
SOX - Oxides of Sulphur Tons/Yr: .017
Particulate Matter Tons/Yr: .23
Part. Matter 10 Micrometers and Smllr Tons/Yr:.228668

 Year:
 2008

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Total Organic Hydrocarbon Gases Tons/Yr: 38.06634347276159440

Reactive Organic Gases Tons/Yr: 10.089785882

Carbon Monoxide Emissions Tons/Yr: 6.4

NOX - Oxides of Nitrogen Tons/Yr: 4.36503285

SOX - Oxides of Sulphur Tons/Yr: .0164408

Direction Distance Elevation

nce EDR ID Number tition Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

Particulate Matter Tons/Yr: .14643
Part. Matter 10 Micrometers and Smllr Tons/Yr:.14579142

 Year:
 2009

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

SOX - Oxides of Sulphur Tons/Yr: 0.01721427 Particulate Matter Tons/Yr: 0.2057445

Part. Matter 10 Micrometers and Smllr Tons/Yr:0.20433003299999999

 Year:
 2010

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

 Total Organic Hydrocarbon Gases Tons/Yr:
 46.018935059261899

 Reactive Organic Gases Tons/Yr:
 10.381148209499999

 Carbon Monoxide Emissions Tons/Yr:
 7.51560000000000001

 NOX - Oxides of Nitrogen Tons/Yr:
 4.53971000000000004

 SOX - Oxides of Sulphur Tons/Yr:
 8.4149559999999995E-3

 Particulate Matter Tons/Yr:
 0.140800000000000001

Part. Matter 10 Micrometers and Smllr Tons/Yr:0.1399552

 Year:
 2011

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 17.907245794 Reactive Organic Gases Tons/Yr: 7.65729 Carbon Monoxide Emissions Tons/Yr: 1.85053 NOX - Oxides of Nitrogen Tons/Yr: 0.74685 SOX - Oxides of Sulphur Tons/Yr: 0.0248 Particulate Matter Tons/Yr: 0.16447 Part. Matter 10 Micrometers and Smllr Tons/Yr:0.1635886

 Year:
 2012

 County Code:
 33

 Air Basin:
 SC

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

EDR ID Number

Facility ID: 7417
Air District Name: SC
SIC Code: 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 18.453197721 Reactive Organic Gases Tons/Yr: 8.5903800055 Carbon Monoxide Emissions Tons/Yr: 1.642150084 NOX - Oxides of Nitrogen Tons/Yr: 0.5267701 SOX - Oxides of Sulphur Tons/Yr: 0.1384060006 Particulate Matter Tons/Yr: 0.2432800076 Part. Matter 10 Micrometers and Smllr Tons/Yr:0.2425744076

 Year:
 2013

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4952

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 17.229817679 Reactive Organic Gases Tons/Yr: 8.72320497 Carbon Monoxide Emissions Tons/Yr: 0.56054 NOX - Oxides of Nitrogen Tons/Yr: 0.47501 SOX - Oxides of Sulphur Tons/Yr: 0.2329809 Particulate Matter Tons/Yr: 0.21962 Part. Matter 10 Micrometers and Smllr Tons/Yr:0.21954764

 Year:
 2014

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 12.881569761 Reactive Organic Gases Tons/Yr: 8.806035 Carbon Monoxide Emissions Tons/Yr: 0.36108 NOX - Oxides of Nitrogen Tons/Yr: 0.36208 SOX - Oxides of Sulphur Tons/Yr: 0.20048 Particulate Matter Tons/Yr: 0.18359 Part. Matter 10 Micrometers and Smllr Tons/Yr:0.1835768

 Year:
 2015

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported

Direction Distance Elevation

n Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

EDR ID Number

Total Organic Hydrocarbon Gases Tons/Yr: 12.579816598
Reactive Organic Gases Tons/Yr: 8.283605055
Carbon Monoxide Emissions Tons/Yr: 0.439586855
NOX - Oxides of Nitrogen Tons/Yr: 0.596822165
SOX - Oxides of Sulphur Tons/Yr: 0.3150915
Particulate Matter Tons/Yr: 0.28146044
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.28143488

 Year:
 2016

 County Code:
 33

 Air Basin:
 SC

 Facility ID:
 7417

 Air District Name:
 SC

 SIC Code:
 4941

Air District Name: SOUTH COAST AQMD

Community Health Air Pollution Info System: Not reported Consolidated Emission Reporting Rule: Not reported Total Organic Hydrocarbon Gases Tons/Yr: 11.377788326 Reactive Organic Gases Tons/Yr: 7.79322538 0.43876352 Carbon Monoxide Emissions Tons/Yr: NOX - Oxides of Nitrogen Tons/Yr: 0.388484 SOX - Oxides of Sulphur Tons/Yr: 0.170557323 Particulate Matter Tons/Yr: 0.16783805 Part. Matter 10 Micrometers and Smllr Tons/Yr:0.1678379177

NPDES:

Facility Status: Terminated NPDES Number: CAS000002

Region: 8 Agency Number: 0 Regulatory Measure ID: 451385 Place ID: Not reported Order Number: 2009-0009-DWQ WDID: 8 33C371675 Regulatory Measure Type: Enrollee Program Type: Construction Not reported Adoption Date Of Regulatory Measure: Effective Date Of Regulatory Measure: 12/10/2014 Termination Date Of Regulatory Measure: 04/05/2016 Expiration Date Of Regulatory Measure: Not reported Discharge Address: 2270 Trumble Road

Discharge Name: Eastern Municipal Water District

Discharge City: Perris California Discharge State: Discharge Zip: 92572 Status: Not reported Status Date: Not reported Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: Not reported Status: Not reported Agency Number: Not reported Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

EDR ID Number

Region: Regulatory Measure ID: 451385 Not reported Order Number: Regulatory Measure Type: Construction Place ID: Not reported WDID: 8 33C371675 Not reported Program Type: Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: 04/05/2016 Discharge Name: Not reported Discharge Address: Not reported Discharge City: Not reported Discharge State: Not reported Discharge Zip: Not reported Received Date: 12/03/2014 Processed Date: 12/10/2014 Status: Terminated Status Date: 04/13/2016 Place Size: 11.5 Place Size Unit: Acres Contact: Javne Jov

Contact Title: Director of Environmental & Regulatory Compliance

Contact Phone: 951-928-3777

Contact Phone Ext: 6241

Contact Email: joyj@emwd.org

Operator Name: Eastern Municipal Water District

Operator Address: 2270 Trumble Road

Operator City: Perris
Operator State: California
Operator Zip: 92572
Operator Contact: Jayne Joy

Operator Contact Title: Director of Environmental & Regulatory Compliance

Operator Contact Phone: 951-928-3777
Operator Contact Phone Ext: Not reported
Operator Contact Email: joyj@emwd.org
Operator Type: Special District
Developer: Stronghold Engin

Developer: Stronghold Engineering
Developer Address: 2000 Market Street
Developer City: Riverside

Developer City.

Developer State:

Developer Zip:

Developer Contact:

Developer Contact:

Developer Contact Title:

Developer Contact Title:

Constype Linear Utility Ind:

Notestide

Riverside

Riverside

Riverside

Riverside

Special State:

California

92501

Bill Bumby

Project Manager

N

Emergency Phone: 951-928-3777

Emergency Phone Ext: 6265 Constype Above Ground Ind: N Constype Below Ground Ind: Ν Constype Cable Line Ind: Ν Constype Comm Line Ind: Ν Constype Commertial Ind: Ν Constype Electrical Line Ind: Ν Constype Gas Line Ind: Ν Constype Industrial Ind: Ν

Constype Other Description: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

EASTERN MUNICIPAL WATER DIST (Continued)

Dir Discharge Uswater Ind:

1005775210

Constype Other Ind: Constype Recons Ind: Ν Constype Residential Ind: Ν Constype Transport Ind: Ν Constype Utility Description: Solar Pad Constype Utility Ind: Constype Water Sewer Ind: Ν

Receiving Water Name: San Jacinto River Certifier: Douglas Edwards

Certifier Title: Senior Environmental Analyst

Ν

Certification Date: 03-DEC-14 Primary Sic: Not reported Secondary Sic: Not reported **Tertiary Sic:** Not reported

NPDES Number: CAS000002 Status: Terminated

Agency Number: Region: 8 Regulatory Measure ID:

451385 2009-0009-DWQ Order Number:

Regulatory Measure Type: Enrollee Place ID: Not reported WDID: 8 33C371675 Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 12/10/2014 Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: 04/05/2016

Discharge Name: Eastern Municipal Water District

Discharge Address: 2270 Trumble Road

Discharge City: Perris Discharge State: California Discharge Zip: 92572 Received Date: Not reported Processed Date: Not reported Status: Not reported Status Date: Not reported Place Size: Not reported Place Size Unit: Not reported Not reported Contact: Contact Title: Not reported Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Contact Email: Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Operator Zip: Not reported **Operator Contact:** Not reported Not reported Operator Contact Title: **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Not reported Operator Contact Email: Not reported Operator Type: Not reported

Distance Elevation Site

te Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

EDR ID Number

Developer: Not reported Not reported Developer Address: Developer City: Not reported Developer State: Not reported Developer Zip: Not reported **Developer Contact:** Not reported Not reported **Developer Contact Title:** Constype Linear Utility Ind: Not reported **Emergency Phone:** Not reported Emergency Phone Ext: Not reported Constype Above Ground Ind: Not reported Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Constype Electrical Line Ind: Not reported Constype Gas Line Ind: Not reported Constype Industrial Ind: Not reported Constype Other Description: Not reported Constype Other Ind: Not reported Constype Recons Ind: Not reported Constype Residential Ind: Not reported Not reported Constype Transport Ind: Constype Utility Description: Not reported Constype Utility Ind: Not reported Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Certifier: Not reported Certifier Title: Not reported Certification Date: Not reported Primary Sic: Not reported Secondary Sic: Not reported **Tertiary Sic:** Not reported

Facility Status: Not reported NPDES Number: Not reported Region: Not reported Agency Number: Not reported Regulatory Measure ID: Not reported Place ID: Not reported Order Number: Not reported 8 33C371675 WDID: Regulatory Measure Type: Construction Program Type: Not reported Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Not reported Expiration Date Of Regulatory Measure: Discharge Address: Not reported Discharge Name: Not reported Not reported Discharge City: Discharge State: Not reported Discharge Zip: Not reported Status: Terminated Status Date: 04/13/2016

Direction Distance

Elevation Site Database(s) **EPA ID Number**

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

EDR ID Number

Operator Name: Eastern Municipal Water District

Operator Address: 2270 Trumble Road

Operator City: Perris Operator State: California Operator Zip: 92572

NPDES as of 03/2018:

NPDES Number: Not reported Status: Not reported Agency Number: Not reported Region: Regulatory Measure ID: 451385 Order Number: Not reported Regulatory Measure Type: Construction Place ID: Not reported WDID: 8 33C371675 Program Type: Not reported Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: 04/05/2016 Discharge Name: Not reported Discharge Address: Not reported Discharge City: Not reported

Discharge State: Not reported Discharge Zip: Not reported Received Date: 12/03/2014 Processed Date: 12/10/2014 Status: Terminated Status Date: 04/13/2016 Place Size: 11.5 Place Size Unit: Acres Contact: Jayne Joy

Contact Title: Director of Environmental & Regulatory Compliance

951-928-3777 Contact Phone: Contact Phone Ext: 6241

Contact Email: joyj@emwd.org

Eastern Municipal Water District Operator Name:

Operator Address: 2270 Trumble Road

Operator City: Perris Operator State: California Operator Zip: 92572 **Operator Contact:** Jayne Joy

Operator Contact Title: Director of Environmental & Regulatory Compliance

Operator Contact Phone: 951-928-3777 Operator Contact Phone Ext: Not reported Operator Contact Email: joyj@emwd.org Operator Type: Special District Developer:

Stronghold Engineering 2000 Market Street Developer Address:

Developer City: Riverside Developer State: California Developer Zip: 92501 Developer Contact: Bill Bumby **Developer Contact Title:** Project Manager

Constype Linear Utility Ind:

Emergency Phone: 951-928-3777

Emergency Phone Ext: 6265

Direction Distance Elevation

e EDR ID Number on Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

Constype Above Ground Ind:

Constype Below Ground Ind:

N
Constype Cable Line Ind:

Constype Comm Line Ind:

N
Constype Commertial Ind:

N
Constype Electrical Line Ind:

N
Constype Gas Line Ind:

N
Constype Industrial Ind:

N

Constype Other Description: Not reported

Constype Other Ind:

Constype Recons Ind:

Constype Residential Ind:

Constype Transport Ind:

Constype Utility Description:

N

Solar Pad

Constype Utility Ind: Y
Constype Water Sewer Ind: N
Dir Discharge Uswater Ind: N

Receiving Water Name: San Jacinto River Certifier: Douglas Edwards

Certifier Title: Senior Environmental Analyst

Certification Date: 03-DEC-14
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

NPDES Number: CAS000002 Status: Terminated

 Agency Number:
 0

 Region:
 8

 Regulatory Measure ID:
 451385

Order Number: 2009-0009-DWQ

Enrollee Regulatory Measure Type: Place ID: Not reported WDID: 8 33C371675 Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 12/10/2014 **Expiration Date Of Regulatory Measure:** Not reported Termination Date Of Regulatory Measure: 04/05/2016

Discharge Name: Eastern Municipal Water District

Discharge Address: 2270 Trumble Road

Discharge City: Perris Discharge State: California Discharge Zip: 92572 Received Date: Not reported Processed Date: Not reported Status: Not reported Status Date: Not reported Place Size: Not reported Place Size Unit: Not reported Not reported Contact: Contact Title: Not reported Not reported Contact Phone: Contact Phone Ext: Not reported Contact Email: Not reported Not reported Operator Name: Operator Address: Not reported

Distance Elevation

n Site Database(s) EPA ID Number

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

EDR ID Number

Operator City: Not reported Operator State: Not reported Operator Zip: Not reported Operator Contact: Not reported Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Not reported Operator Contact Email: Not reported Operator Type: Not reported Developer: Not reported Developer Address: Not reported Developer City: Not reported Developer State: Not reported Developer Zip: Not reported **Developer Contact:** Not reported **Developer Contact Title:** Not reported Constype Linear Utility Ind: Not reported **Emergency Phone:** Not reported **Emergency Phone Ext:** Not reported Constype Above Ground Ind: Not reported Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Not reported Constype Electrical Line Ind: Constype Gas Line Ind: Not reported Constype Industrial Ind: Not reported Constype Other Description: Not reported Constype Other Ind: Not reported Constype Recons Ind: Not reported Constype Residential Ind: Not reported Constype Transport Ind: Not reported Constype Utility Description: Not reported Constype Utility Ind: Not reported Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Certifier: Not reported Certifier Title: Not reported Certification Date: Not reported Not reported Primary Sic: Not reported Secondary Sic: Tertiary Sic: Not reported

CIWQS:

Agency: Eastern Municipal Water District

Agency Address: 2270 Trumble Road PO Box 8300, Perris, CA 92572

Place/Project Type: Construction - Utility: Solar Pad

SIC/NAICS: Not reported

Region: 8
Program: CONSTW
Regulatory Measure Status: Terminated

Regulatory Measure Type: Storm water construction

 Order Number:
 2009-0009-DWQ

 WDID:
 8 33C371675

 NPDES Number:
 CAS000002

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

EASTERN MUNICIPAL WATER DIST (Continued)

1005775210

S113149943

N/A

Adoption Date: Not reported Effective Date: 12/10/2014 Termination Date: 04/05/2016 Expiration/Review Date: Not reported Design Flow: Not reported Major/Minor: Not reported Not reported Complexity: TTWQ: Not reported

Enforcement Actions within 5 years: 0 Violations within 5 years: 0

Latitude: 33.754517 Longitude: -117.19831

KIEWIT INFRASTRUCTURE WEST CO - PERRIS D20 HAZNET

ENE 1301 CASE RD PERRIS, CA 92570 1/2-1

0.705 mi.

Site 4 of 18 in cluster D 3723 ft.

HAZNET: Relative:

Higher envid: S113149943 Year: 2013 Actual:

CAL000325083 GEPAID: 1419 ft. **DAVID BUFO** Contact: Telephone: 8053151532 Mailing Name: Not reported

> Mailing Address: 4650 BUSINESS CENTER DRIVE Mailing City, St, Zip: FAIRFIELD, CA 945340000

Gen County: Riverside TSD EPA ID: NVT330010000

TSD County: 99

Waste Category: Not reported

Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill (To

Include On-Site Treatment And/Or Stabilization)

0.525 Tons:

Cat Decode: Not reported Method Decode: Not reported Facility County: Not reported

S113149943 envid: Year: 2013

GEPAID: CAL000325083 Contact: **DAVID BUFO** Telephone: 8053151532 Mailing Name: Not reported

Mailing Address: 4650 BUSINESS CENTER DRIVE Mailing City, St, Zip: FAIRFIELD, CA 945340000

Gen County: Riverside NVT330010000 TSD EPA ID:

TSD County: 99

Waste Category:

Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Disposal Method:

Organics Recovery Ect

0.156 Tons: Cat Decode: Not reported Method Decode: Not reported Facility County: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

KIEWIT INFRASTRUCTURE WEST CO - PERRIS (Continued)

S113149943

envid: S113149943 Year: 2013

GEPAID: CAL000325083 **DAVID BUFO** Contact: Telephone: 8053151532 Mailing Name: Not reported

Mailing Address: 4650 BUSINESS CENTER DRIVE Mailing City,St,Zip: FAIRFIELD, CA 945340000

Gen County: Riverside TSD EPA ID: NVT330010000

TSD County: 99

Waste Category: Not reported

Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

Organics Recovery Ect

Tons: 0.825 Cat Decode: Not reported Not reported Method Decode: Facility County: Not reported

S113149943 envid: Year: 2013

GEPAID: CAL000325083 Contact: **DAVID BUFO** Telephone: 8053151532 Mailing Name: Not reported

Mailing Address: 4650 BUSINESS CENTER DRIVE Mailing City,St,Zip: FAIRFIELD, CA 945340000

Gen County: Riverside TSD EPA ID: CAD044429835 TSD County: Los Angeles Waste Category: Not reported

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.03 Cat Decode: Not reported Not reported Method Decode: Facility County: Not reported

S113149943 envid: Year: 2013

GEPAID: CAL000325083 **DAVID BUFO** Contact: Telephone: 8053151532 Mailing Name: Not reported

Mailing Address: 4650 BUSINESS CENTER DRIVE Mailing City, St, Zip: FAIRFIELD, CA 945340000

Gen County: Riverside TSD EPA ID: CAT080013352 TSD County: Los Angeles Waste Category: Not reported

Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

Organics Recovery Ect

0.22935 Tons: Cat Decode: Not reported Method Decode: Not reported Facility County: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

KIEWIT INFRASTRUCTURE WEST CO - PERRIS (Continued)

S113149943

Click this hyperlink while viewing on your computer to access 98 additional CA_HAZNET: record(s) in the EDR Site Report.

CHMIRS \$109036006 D21

ENE 1301 CASE RD N/A

1/2-1 **PERRIS, CA 92572**

0.705 mi.

3723 ft. Site 5 of 18 in cluster D

Relative: CHMIRS: Higher **OES Incident Number:** 7-4746 08/07/2007 OES notification: Actual: 1419 ft. **OES Date:** Not reported OES Time: Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported

Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Not reported Vehicle State: Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: Not reported Waterway: Not reported Spill Site: Not reported Cleanup By: Reporting Party Containment: Not reported What Happened: Not reported Type: Not reported

Date/Time: Not reported 2007 Year:

Measure:

Other:

Agency: Eastern Municipal Water District Incident Date: 8/7/2007 12:00:00 AM

Riverside County Environmental Health Admin Agency:

Not reported

Not reported

Amount: Not reported

Contained:

Treatment/Sewage Facility Site Type:

E Date: Not reported Substance: Sewage

Direction Distance Elevation

Site Database(s) EPA ID Number

(Continued) S109036006

Gallons: 1,000-2,000

Unknown: 0

Substance #2: Not reported Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: A leaking pipeline caused the release at a

treatment plant. Spill is contained within the

plant.

OES Incident Number: 7-5164 OES notification: 08/28/2007 OES Date: Not reported Not reported **OES Time:** Not reported **Date Completed:** Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported Not reported More Than Two Substances Involved?: Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: Not reported Waterway: Not reported Spill Site: Not reported Cleanup By: Reporting Party Containment: Not reported What Happened: Not reported Not reported Type:

EDR ID Number

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

(Continued) S109036006

Measure: Not reported Not reported Other: Date/Time: Not reported 2007 Year:

Agency: Eastern Municipal Water Dist Incident Date: 8/28/2007 12:00:00 AM

Riverside County Environmental Health Admin Agency:

Amount: Not reported

Contained: Yes

Site Type: Treatment/Sewage Facility

E Date: Not reported Substance: Alum Gallons: 2 Unknown: 0

Substance #2: Not reported Substance #3: Not reported

Evacuations: 0 Number of Injuries: 1 Number of Fatalities:

Not reported #1 Pipeline: #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: A contractor cut a pressurized line causing a

spray of Alum. The contractor was sprayed with the substance and was sent to medical to be

evaluated.

D22 **ERNS** 2008888983

ENE 1301 CASE ROAD

PERRIS, CA 92570 1/2-1

0.705 mi.

3723 ft. Site 6 of 18 in cluster D

Relative: Click this hyperlink while viewing on your computer to access Higher

additional ERNS detail in the EDR Site Report.

Actual: 1419 ft.

D23 **ERNS** 2008874938 N/A

1301 CASE ROAD **ENE** 1/2-1 PERRIS, CA

0.705 mi.

Site 7 of 18 in cluster D 3723 ft.

Relative: Click this hyperlink while viewing on your computer to access Higher

additional ERNS detail in the EDR Site Report.

Actual: 1419 ft. N/A

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

D24 EASTERN MUNICIPAL WATER DIST HAZNET S113055254

N/A

PERRIS, CA 92572 1/2-1

0.705 mi.

ENE

3723 ft. Site 8 of 18 in cluster D

1301 CASE ROAD

Relative: HAZNET:

Higher envid: S113055254 Year: 2016 Actual:

GEPAID: CAL000089264 1419 ft. **DOUG EDWARDS** Contact: Telephone: 9519283777 Mailing Name: Not reported PO BOX 8300 Mailing Address:

> Mailing City, St, Zip: PERRIS, CA 925728300

Gen County: Riverside TSD EPA ID: AZR000515924

TSD County: 99

Unspecified oil-containing waste Waste Category:

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.2085

Cat Decode: Unspecified oil-containing waste

Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Facility County: Riverside

envid: S113055254 Year: 2016

GEPAID: CAL000089264 Contact: **DOUG EDWARDS** 9519283777 Telephone: Mailing Name: Not reported PO BOX 8300 Mailing Address:

Mailing City, St, Zip: PERRIS, CA 925728300

Gen County: Riverside TSD EPA ID: MXC130619001 TSD County: Not reported

Waste Category: Off-specification, aged or surplus organics

Disposal Method: Solvents Recovery

Tons: 0.0132

Cat Decode: Off-specification, aged or surplus organics

Method Decode: Solvents Recovery

Facility County: Riverside

S113055254 envid:

Year: 2015

GEPAID: CAL000089264 Contact: **DOUG EDWARDS** Telephone: 9519283777 Mailing Name: Not reported Mailing Address: PO BOX 8300

Mailing City, St, Zip: PERRIS, CA 925728300

Gen County: Riverside TSD EPA ID: AZR000501510

TSD County: 99

Waste Category: Unspecified oil-containing waste

Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery Disposal Method:

(H010-H129) Or (H131-H135)

Direction Distance

Elevation Site Database(s) **EPA ID Number**

EASTERN MUNICIPAL WATER DIST (Continued)

S113055254

EDR ID Number

Tons: 0.2085 Cat Decode: Not reported Not reported Method Decode: Riverside Facility County:

S113055254 envid: Year: 2013

GEPAID: CAL000089264 **DOUG EDWARDS** Contact: Telephone: 9519283777 Mailing Name: Not reported PO BOX 8300 Mailing Address:

Mailing City, St, Zip: PERRIS, CA 927288300

Gen County: Riverside TSD EPA ID: AZR000501510

TSD County: 99

Waste Category: Not reported

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 0.025 Cat Decode: Not reported Method Decode: Not reported Facility County: Not reported

envid: S113055254 Year: 2012

GEPAID: CAL000089264 Contact: **DOUG EDWARDS** Telephone: 9519283777 Mailing Name: Not reported PO BOX 8300 Mailing Address:

Mailing City, St, Zip: PERRIS, CA 927288300

Gen County: Riverside TSD EPA ID: CAD008302903 TSD County: Los Angeles Waste Category: Not reported

Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery Disposal Method:

(H010-H129) Or (H131-H135)

Tons: 0.02 Cat Decode: Not reported Method Decode: Not reported Facility County: Riverside

> Click this hyperlink while viewing on your computer to access 32 additional CA_HAZNET: record(s) in the EDR Site Report.

D25 **EASTERN MUNICIPAL WATER DISTRICT PERRIS VALLEY REG**

1016068544 **FINDS ECHO** N/A **PERRIS, CA 92570**

0.705 mi.

ENE

1/2-1

Site 9 of 18 in cluster D 3723 ft.

1301 CASE RD

FINDS: Relative:

Higher

Registry ID: 110002063793 Actual:

1419 ft.

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

EASTERN MUNICIPAL WATER DISTRICT PERRIS VALLEY REGIONAL WATE (Continued)

1016068544

Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

AIR EMISSIONS CLASSIFICATION UNKNOWN

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

AIR MAJOR

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

1016068544 Envid: Registry ID: 110002063793

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002063793

D26 2009903562 **ERNS** 1301 CASE ROAD N/A

ENE 1/2-1 **PERRIS, CA 92572**

0.705 mi.

Site 10 of 18 in cluster D 3723 ft.

Relative: Click this hyperlink while viewing on your computer to access

Higher additional ERNS detail in the EDR Site Report.

Actual: 1419 ft.

2011986114 **D27 ERNS** N/A

ENE 1301 CASE RD 1/2-1 PERRIS, CA

0.705 mi.

3723 ft. Site 11 of 18 in cluster D

Relative: Click this hyperlink while viewing on your computer to access

Higher additional ERNS detail in the EDR Site Report. Actual:

1419 ft.

Direction Distance

Elevation Site Database(s) EPA ID Number

D28 ERNS 2008876166

ENE 1301 CASE ROAD

1/2-1 PERRIS, CA 92570

0.705 mi.

3723 ft. Site 12 of 18 in cluster D

Relative:
Higher

Click this hyperlink while viewing on your computer to access

additional ERNS detail in the EDR Site Report.

Actual:

D29 EMWD - PERRIS VALLEY RWRF RCRA-LQG 1012175596
ENE 1301 CASE ROAD CAL000089264

ENE 1301 CASE ROAD 1/2-1 PERRIS, CA 92572

0.705 mi.

3723 ft. Site 13 of 18 in cluster D

EPA ID:

Relative: RCRA-LQG:

Higher Date form received by agency: 03/01/2010

Actual: Facility name: EMWD - PERRIS VALLEY RWRF

1419 ft. Facility address: 1301 CASE ROAD

PERRIS, CA 92572 CAL000089264 PO BOX 8300

Mailing address: PO BOX 8300
PERRIS, CA 92572
Contact: EDWARD FILADELFIA

Contact address: PO BOX 8300 PERRIS, CA 92572

Contact country: US

Contact telephone: 951-928-3777

Telephone ext.: 4318

Contact email: FILADELE@EMWD.ORG

EPA Region: 09

Classification: Large Quantity Generator

Description: Handler: generates 1,000 kg or more of hazardous waste during any

calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than

100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: EASTERN MUNICIPAL WATER DISTRICT

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Municipal
Owner/Operator Type: Operator

Owner/Operator Type: Operator
Owner/Op start date: 01/01/1981
Owner/Op end date: Not reported

Owner/operator name: EASTERN MUNICIPAL WATER DISTRICT

EDR ID Number

N/A

MAP FINDINGS Map ID Direction

Distance Elevation Site

EPA ID Number Database(s)

EMWD - PERRIS VALLEY RWRF (Continued)

Owner/operator address:

PO BOX 8300

PERRIS, CA 92572 Not reported Owner/operator country: Owner/operator telephone: 951-928-3777 Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Municipal Owner/Operator Type: Owner

Owner/Op start date: 01/01/1981 Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: Nο Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: Nο Used oil transfer facility: No Used oil transporter: No

Waste code: 141

Waste name: Off-specification, aged, or surplus inorganics

Waste code:

Off-specification, aged, or surplus organics Waste name:

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

> CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Historical Generators:

Date form received by agency: 02/27/2008

Site name: EMWD - PERRIS VALLEY RWRF Classification: Large Quantity Generator

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

> CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

EDR ID Number

1012175596

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

EMWD - PERRIS VALLEY RWRF (Continued)

1012175596

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

No violations found Violation Status:

D30 CHMIRS S104577516

N/A

ENE 1301 CASE ROAD 1/2-1 **PERRIS, CA 92570**

0.705 mi.

3723 ft. Site 14 of 18 in cluster D

CHMIRS: Relative:

Higher **OES Incident Number:** 08-7901 11/03/2008 OES notification: Actual: 1419 ft. OES Date: Not reported OES Time: Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported

Not reported Time Completed: Surrounding Area: Not reported **Estimated Temperature:** Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Not reported Vehicle State: Not reported Vehicle Id Number: CA DOT PUC/ICC Number: Not reported

Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved:

Waterway: Not reported

Spill Site: Treatment/Sewage Facility

Cleanup By: Reporting Party Containment: Not reported What Happened: Not reported Type: Not reported Measure: N/A

Other: Not reported Date/Time: 0830 2008 Year:

Agency: Eastern Municipal Water Dist

Incident Date: 11/3/2008

Admin Agency: Riverside County Environmental Health

Not reported Amount: Contained: Yes

Site Type: Not reported E Date: Not reported

Sodium Hydroxide Solution 25% Substance:

Distance Elevation Site

Site Database(s) EPA ID Number

(Continued) S104577516

Quantity Released: Unknown
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Not reported Comments:

Description: RP states that an odor scrubber was misting out

the solution onto the ground and equipment

outside of the containment.

OES Incident Number: 08-0357 OES notification: 01/11/2008 OES Date: Not reported **OES Time:** Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Not reported Others Number Of Fatalities: Vehicle Make/year: Not reported Vehicle License Number: Not reported Not reported Vehicle State: Not reported Vehicle Id Number: CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported

Waterway: Not reported

Waterway Involved:

Spill Site: Treatment/Sewage Facility

No

Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

(Continued) S104577516

 Measure:
 Gal(s)

 Other:
 Not reported

 Date/Time:
 0812

 Year:
 2008

Agency: City of Perris Eastern Municip. Water District

Incident Date: 1/11/2008

Admin Agency: Riverside County Environmental Health

Amount: Not reported Contained: Yes Site Type: Not reported

E Date: Not reported
Substance: Not reported
Sodium Bisulfite

Quantity Released: 75

Unknown: Not reported Substance #2: Not reported Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0

Not reported #1 Pipeline: #2 Pipeline: Not reported #3 Pipeline: Not reported Not reported #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Not reported Evacs: Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: During inspection this a.m. a isolation valve was

noticed to be leaking. Product flowed into a

containment area.

D31 CHMIRS S105882278

Not reported

1301 CASE RD. N/A

ENE 1301 CASE RD. 1/2-1 PERRIS, CA 92572

0.705 mi.

3723 ft. Site 15 of 18 in cluster D

Relative: CHMIRS:

 Higher
 OES Incident Number:
 7-1132

 Actual:
 OES notification:
 02/21/2007

 1419 ft.
 OES Date:
 Not reported

 OES Time:
 Not reported

Others Number Of Decontaminated:

Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Not reported Time Completed: Surrounding Area: Not reported Estimated Temperature: Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

(Continued) S105882278

Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: Not reported Not reported Waterway: Spill Site: Not reported Reporting Party Cleanup By: Containment: Not reported What Happened: Not reported Type: Not reported Measure: Not reported Other: Not reported Date/Time: Not reported

 Year:
 2007

 Agency:
 Eastern Muni Water Dist.

 Incident Date:
 2/21/2007 12:00:00 AM

Admin Agency: Riverside County Environmental Health

Amount: Not reported

Contained: Yes

Site Type: Treatment/Sewage Facility

E Date: Not reported
Substance: Sodium bysolfide
Gallons: 0.000000
Pounds: 100
Unknown: 0

Substance #2: Not reported Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0
#1 Pipeline: Not reported

#2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: The substance was found on the asphalt. Unknown

when the spill occurred.

OES Incident Number: 2-0283
OES notification: 01/15/2002
OES Date: Not reported
OES Time: Not reported
Date Completed: Not reported
Property Use: Not reported

Distance Elevation

ation Site Database(s) EPA ID Number

(Continued) S105882278

Agency Id Number: Not reported Not reported Agency Incident Number: Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Not reported Vehicle State: Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No Waterway: Not reported Spill Site: Not reported Cleanup By: Reporting Party Containment: Not reported What Happened: Not reported Not reported Type: Measure: Not reported

Year: 2002
Agency: Eastern Municipal Water Dist.
Incident Date: 1/15/200212:00:00 AM

Admin Agency: Riverside County Environmental Health

Not reported

Not reported

Amount: Not reported

Contained: Yes

Other:

Date/Time:

Site Type: Treatment/Sewage Facility E Date: Not reported

Substance: oil
Gallons: 180
Unknown: 0

Substance #2: Not reported Substance #3: Not reported

Evacuations: 0
Number of Injuries: 0
Number of Fatalities: 0

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

(Continued) S105882278

Fatals: Not reported Comments: Not reported

Description: Per caller, a fire caused the release of the

substance.

OES Incident Number: 08-4895 OES notification: 07/03/2008 OES Date: Not reported **OES Time:** Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Not reported Vehicle Make/year: Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Not reported Company Name: Reporting Officer Name/ID: Not reported Report Date: Not reported

Facility Telephone: Not reported Waterway Involved: No

Waterway: Not reported Spill Site: Other

Cleanup By: Reporting Party Containment: Not reported Not reported What Happened: Type: Not reported Measure: Gal(s) Other: Not reported Date/Time: 0827 2008 Year:

Agency: Eastern Municipal Water Dist.

Incident Date: 7/3/2008
Admin Agency: Riverside County Environmental Health

Amount: Not reported Contained: Yes

Site Type: Not reported E Date: Not reported Substance: Polymer Quantity Released: 7

Unknown: Not reported Substance #2: Not reported Substance #3: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number**

(Continued) S105882278

Evacuations: 0 0 Number of Injuries: Number of Fatalities: O

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: A discharge line ruptured spilling the substance.

D32 STPPERRIS VALLEY REGIONAL S105256974 **CHMIRS**

ENE 1301 CASE RD HAZNET N/A **PERRIS, CA 92570 WDS** 1/2-1

Not reported

Not reported

0.705 mi.

Relative:

3723 ft. Site 16 of 18 in cluster D

CHMIRS:

Higher 10-1480 OES Incident Number: OES notification: 03/01/2010 Actual: OES Date: Not reported 1419 ft. **OES Time:** Not reported

Vehicle License Number:

Vehicle State:

Date Completed: Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Not reported Estimated Temperature: **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported

Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Company Name: Not reported Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported

Waterway Involved: No Waterway: Not reported

Spill Site: Treatment/Sewage Facility

Cleanup By: Contractor Containment: Not reported What Happened: Not reported Type: Not reported **EDR ID Number**

CIWQS

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

STPPERRIS VALLEY REGIONAL (Continued)

S105256974

Measure: Gal(s) Other: Not reported Date/Time: 1230 2010 Year:

Agency: East Municipal Water District

3/1/2010 Incident Date:

Riverside County Environmental Health Admin Agency:

Amount: Not reported Contained: Yes Site Type: Not reported E Date: Not reported Substance: Sewage Quantity Released: 1500 Unknown: Not reported Substance #2: Not reported Substance #3: Not reported Not reported Evacuations: Number of Injuries: Not reported Number of Fatalities: Not reported

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported Not reported #1 Vessel >= 300 Tons: #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Not reported Evacs: Injuries: Not reported Fatals: Not reported Comments: Not reported

Caller states that a contractor forgot to cap the Description:

clean out during construction which caused the

release.

OES Incident Number: 08-4442 OES notification: 06/22/2008 OES Date: Not reported **OES Time:** Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Not reported Agency Incident Number: Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Not reported Others Number Of Fatalities: Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

STPPERRIS VALLEY REGIONAL (Continued)

S105256974

CA DOT PUC/ICC Number: Not reported Not reported Company Name: Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No

Waterway: Not reported

Treatment/Sewage Facility Spill Site:

Cleanup By: Reporting Party Containment: Not reported What Happened: Not reported Not reported Type: Measure: Gal(s) Other: Not reported Date/Time: 0940 Year: 2008

Eastern Municipal Water Dist Agency:

Incident Date: 6/22/2008

Admin Agency: Riverside County Environmental Health

Not reported

Amount: Not reported

Contained: Yes

Site Type: Not reported E Date: Not reported Substance: Polymer Quantity Released: Unknown: Not reported

Substance #3: Not reported Evacuations: Number of Injuries: 0 0 Number of Fatalities:

Substance #2:

#1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: Equipment failure split line caused this release

OES Incident Number: 1-4854 OES notification: 08/16/2011 OES Date: Not reported **OES Time:** Not reported **Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Agency Incident Number: Not reported Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported **Estimated Temperature:** Not reported Property Management: Not reported More Than Two Substances Involved?: Not reported

Distance

Elevation Site Database(s) EPA ID Number

STPPERRIS VALLEY REGIONAL (Continued)

S105256974

EDR ID Number

Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Not reported Vehicle Make/year: Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Not reported Company Name: Not reported Reporting Officer Name/ID: Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No

Waterway: Not reported

Spill Site: Treatment/Sewage Facility

Cleanup By: Reporting Party Containment: Not reported What Happened: Not reported Type: Not reported Measure: Gal(s) Other: Not reported Date/Time: 745 Year: 2011

Agency: Eastern Muni Water Dist.

Incident Date: 8/16/2011

Admin Agency: Riverside County Environmental Health

Amount: Not reported Contained: Yes

Site Type: Not reported
E Date: Not reported
Substance: Ferric Chloride

Quantity Released: 300

Not reported Unknown: Substance #2: Not reported Substance #3: Not reported Evacuations: Not reported Number of Injuries: Not reported Not reported Number of Fatalities: #1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Comments: Not reported

Description: The substance leaked from a storage tank into a

secondary containment area.

OES Incident Number: 10-0685
OES notification: 01/26/2010
OES Date: Not reported

Direction Distance Elevation

on Site Database(s) EPA ID Number

STPPERRIS VALLEY REGIONAL (Continued)

S105256974

EDR ID Number

OES Time: Not reported Not reported **Date Completed:** Property Use: Not reported Not reported Agency Id Number: Agency Incident Number: Not reported Time Notified: Not reported Not reported Time Completed: Surrounding Area: Not reported Estimated Temperature: Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Responding Agency Personel # Of Fatalities: Not reported Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Not reported Company Name: Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved:

Waterway: Not reported

Spill Site: Treatment/Sewage Facility

Cleanup By: Reporting Party Not reported Containment: What Happened: Not reported Not reported Type: Measure: Gal(s) Not reported Other: Date/Time: 945 2010 Year: Agency: **EBMUD** Incident Date: 1/26/2010

Admin Agency: Riverside County Environmental Health

Amount: Not reported Contained: Yes

Site Type: Not reported
E Date: Not reported
Substance: Aluminum sulfate

Quantity Released: 100

Unknown: Not reported Substance #2: Not reported Substance #3: Not reported Not reported Evacuations: Number of Injuries: Not reported Number of Fatalities: Not reported #1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

STPPERRIS VALLEY REGIONAL (Continued)

S105256974

EDR ID Number

#3 Vessel >= 300 Tons:

Evacs:
Injuries:
Not reported
Not reported
Not reported
Fatals:
Not reported
Not reported
Not reported
Not reported

Description: Caller advised the release was due to a line

break in the secondary containment. Clean up is

in progress

HAZNET:

envid: \$105256974 Year: 2013

GEPAID: CAC002730256
Contact: KENNETH GIDDENS
Telephone: 7607461004
Mailing Name: Not reported
Mailing Address: 650 OPPER ST

Mailing City, St, Zip: ESCONDIDO, CA 920291020

Gen County: Riverside
TSD EPA ID: ARD981057870

TSD County: 99

Waste Category: Not reported

Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site

Tons: 0.0175
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Not reported

WDS:

Facility ID: Santa Ana River 330110007

Facility Type: Municipal/Domestic - Facility that treats sewage or a mixture of

predominantly sewage and other waste from districts, municipalities, communities, hospitals, schools, and publicly or privately owned systems (excluding individual subsurface leaching systems disposing of

less than 1,000 gallons per day).

Facility Status: Active - Any facility with a continuous or seasonal discharge that is

under Waste Discharge Requirements.

NPDES Number: Not reported

Subregion: 8

Facility Telephone: Not reported Facility Contact: KEVIN SHAW

Agency Name: EASTERN MUNICIPAL WATER DIST.

Agency Address: PO BOX 8300
Agency City, St, Zip: PERRIS 925728300
Agency Contact: ANTHONY PACK
Agency Telephone: 9519283777

Agency Type: Special District (Includes districts established under general acts,

sanitary districts, water districts irrigation districts, etc.)

SIC Code: 4952 SIC Code 2: Not reported

Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain

nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid

waste).

Primary Waste: DOMIND

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

STPPERRIS VALLEY REGIONAL (Continued)

S105256974

Waste Type2: Not reported

Waste2: Domestic Sewage combined with Industrial Waste

Nonhazardous Solid Wastes/Influent or Solid Wastes that contain Primary Waste Type: nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and

construction wastes, manure, vegetable or animal solid and semisolid

waste).

Secondary Waste: Not reported Secondary Waste Type: Not reported

Design Flow: Baseline Flow:

Reclamation: Producer: Reclamation requirements that have been issued to a producer

of reclaimed water that does not use the product.

POTW: Not reported

Treat To Water: Moderate Threat to Water Quality. A violation could have a major

> adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance

from a waste treatment facility.

Category B - Any facility having a physical, chemical, or biological Complexity:

> waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum

products, solid wastes, and sewage pump out facilities.

CIWQS:

Eastern Municipal Water District Agency: Agency Address: PO Box 8300, Perris, CA 92570

Place/Project Type: Construction SIC/NAICS: Not reported

Region: Program: **CONSTW**

Regulatory Measure Status: **Terminated** Storm water construction

Regulatory Measure Type: Order Number: 2009-0009-DWQ WDID: 8 33C353527 NPDES Number: CAS000002 Adoption Date: Not reported 09/25/2008 Effective Date: Termination Date: 05/06/2013 Expiration/Review Date: Not reported Design Flow: Not reported Major/Minor: Not reported Not reported Complexity: TTWQ: Not reported

Enforcement Actions within 5 years: 0 Violations within 5 years:

33.764076 Latitude: Longitude: -117.206248

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

D33 PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY RMP 1012126309
ENE 1301 CASE ROAD N/A

ENE 1301 CASE ROAD 1/2-1 PERRIS, CA 92570

0.705 mi.

3723 ft. Site 17 of 18 in cluster D

Relative: RMP:

 Higher
 Facility ID:
 1000003199

 Actual:
 LEPC city:
 Region VI LEPC

 1419 ft.
 Facility decimal latitude:
 33.756000

 Facility decimal longitude:
 -117.193111

Is facility in county box: T
LatLong method: A1
LatLong description: PG

Home page web address:

Home page web address:

Facility telephone:

Facility email:

Not reported

Not reported

Facility DUNS #: 0

Parent's name: Eastern Municipal Water District

Partner's name:
Parent's DUNS #:
Partner's DUNS #:
0

Operator's name: Eastern Municipal Water District

Operator's telephone: 9519283777
Operator's address: 2270 Trumble Road
Operator's address2: PO Box 8300
Operators City,St,Zip: Perris, CA 92572 8300

RMP implementation contact: Doug Hefley

RMP contact title: Risk and Safety Manager Emergency contact: Christopher Pendergrass

Emergency contact title: Safety Officer
Emergency contact telephone: 9519283777
24 hour emergency telephone: 9519061021
Emergency contact ext/pin #: 4304
Number of full time employees: 21

EPA ID: Not reported Facility ID provided by CEPPO: 100000089343

Is facility covered by OSHA PSM: T
Is facility covered by EPCRA 302: T
Is fac. covered by CAA Title V 112(2): T
Clean air op. permit/State ID: F47548

Last safety insp. dat: 2008-08-12 00:00:00

Inspected by: Riverside County Environmental Health Department

Is it OSHA approved with star/merit ranking: True Will RMP involve predictive filing: False Resubmission Submission type: RMP description: Not reported Facility has no accident hist. recs: False Foreign owner's address: Not reported Foreign owner's zip: Not reported Foreign owner's country: Not reported

Claim # of employees as CBI: False
Date RMP accepted by EPA: 2009-06-04 00:00:00
Date of error Report: Not reported
Date RMP received: 2009-06-04 00:00:00

Does RMP contain graphics files: False
Does RMP contain attachments: False
Was certification letter received: True

RMP submission method: RMP*eSubmit

Direction Distance

Elevation Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Does RMP contain CBI substantiation: False Does RMP contain electronic waiver: False

Date RMP postmarked: 2009-06-04 00:00:00

Is RMP complete: True

Date of de-registration: Not reported

Date de-registration is effective: Not reported

Aniversary date: 2014-06-04 00:00:00

Does RMP contain CBI data: False

Does RMP contain unsanitized CBI version: False

RMP version #: 1.0

FRS latitude: 33.756

FRS longitude: -117.19311

FRS Description: PLANT ENTRANCE (GENERAL)

FRS Method: ZIP CODE-CENTROID

RMP:

Process ID: 1000003921 NA & Industry Classification Sys.code(s): 22132

NAICS code description: Sewage Treatment Facilities

Optional facility description: Chlorination

Program level: 3
Record contains CBI data: False

RMP:

Chemical name: Public OCA Chemical

Process chemical qty in 100s lbs: 0

Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: 100 Physical state: c

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported

Wind speed in meters/second: 3
Stability class: D
Topography: b

Distance to endpoint in miles:

Residential population:

Public receptors:

Environmental receptors:

Passive mitigation:

Active mitigation:

Not reported

Not reported

Enclosures

Not reported

Enclosures

Not reported

Percent weight of chemical: 100 Physical state: c

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported

Wind speed in meters/second: 3
Stability class: D
Topography: b

Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Environmental receptors: Not reported Passive mitigation: Not reported Active mitigation: Operator action

RMP:

Percent weight of chemical: 100 Physical state: c

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: 10

Release rate in pounds per second: Not reported

Wind speed in meters/second: 1.5 Stability class: F Topography: b

Distance to endpoint in miles:

Residential population:

Public receptors:

Environmental receptors:

Passive mitigation:

Not reported

Not reported

Not reported

Enclosures

RMP:

Endpoint used: Not reported LFL value: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Not reported Passive mitigation: Active mitigation: Not reported

RMP:

Analytical basic: Not reported Quantity released in pounds: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Passive mitigation: Not reported

Safety review date: Not reported Most recent PHA date: Not reported Process Hazard Analysis: Not reported Expected PHA changes completion date: Not reported Not reported Major Hazard: Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Training: Not reported Competency testing: Not reported Not reported Most recent maintenance review date: Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent changes by mgmt: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Date of most recent review/update: Not reported Not reported Date of pre-start review: Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Date of participation plan review: Not reported Date of hot work permit review: Not reported Date of contractor safety review: Not reported Date of contractor safety eval. review: Not reported Record has CBI data: Not reported Not reported Safety review date: Federal Regulation: Not reported Federal regulation comment: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent hazard review/update: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Expected completion of review changes: Not reported Training: Not reported Competency testing: Not reported Not reported Most recent maintenance review date: Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent compliance audit date: Not reported Not reported Expected date of audit completion: Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Record has CBI data: Not reported Date of most recent changes: Not reported

Chemical name: Chlorine
Process chemical qty in 100s lbs: 108000
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported Physical state: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Not reported Release duration in minutes: Release rate in pounds per second: Not reported Wind speed in meters/second: Not reported Stability class: Not reported Topography: Not reported Distance to endpoint in miles: Not reported Not reported Residential population: Public receptors: Not reported Environmental receptors: Not reported Passive mitigation: Not reported Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Physical state: Not reported Analytical basic: Not reported Not reported Scenario: Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported Wind speed in meters/second: Not reported Not reported Stability class: Topography: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Not reported Public receptors: Environmental receptors: Not reported Passive mitigation: Not reported

RMP:

Endpoint used: Not reported LFL value: Not reported Analytical basic: Not reported Scenario: Not reported Quantity released in pounds: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Not reported Passive mitigation: Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

Safety review date: Not reported Most recent PHA date: Not reported Process Hazard Analysis: Not reported Expected PHA changes completion date: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Not reported Most recent review of op. procedures: Most recent training progs review/update: Not reported Training: Not reported Competency testing: Not reported Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent changes by mgmt: Not reported Date of most recent review/update: Not reported Not reported Date of pre-start review: Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Most recent incident investigation: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Expected date of investigation changes: Not reported Date of participation plan review: Not reported Date of hot work permit review: Not reported Not reported Date of contractor safety review: Date of contractor safety eval. review: Not reported Record has CBI data: Not reported Safety review date: Not reported Federal Regulation: Not reported Federal regulation comment: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent hazard review/update: Not reported Most recent review of op. procedures: Not reported Not reported Most recent training progs review/update: Expected completion of review changes: Not reported Training: Not reported Competency testing: Not reported Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Record has CBI data: Not reported Date of most recent changes: Not reported

RMP:

ER plan: Not reported

ER plan most recent review date: 2008-06-30 00:00:00
ER plan most recent employee training date: 2008-11-13 00:00:00
Local agency coordinating ER plan: Riverside County
Telephone of the coordinating local agency: 9517652465
Fodoral regulation: True

Federal regulation:

OSHA 1910 120:

SPCC:

RCRA:

OPA 90:

EPCRA:

True

Other Regulations: Not reported

RMP:

Facility ID: 1000041584
LEPC city: Region VI LEPC
Facility decimal latitude: 33.756000
Facility decimal longitude: -117.193111

Is facility in county box: T
LatLong method: A1
LatLong description: PG

Home page web address:

Facility telephone:

Not reported

Not reported

Not reported

Facility DUNS #:

Parent's name: Eastern Municipal Water District

Direction Distance Elevation

Site Database(s) **EPA ID Number**

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Partner's name: Not reported 47789870 Parent's DUNS #:

Partner's DUNS #: O

Eastern Municipal Water District Operator's name:

Operator's telephone: 9519283777 Operator's address: 2270 Trumble Road Operator's address2: PO Box 8300 Operators City, St, Zip: Perris, CA 92572 8300

RMP implementation contact: Doug Hefley

RMP contact title: Risk and Safety Manager

Emergency contact: Jay Joyce

Emergency contact title: Safety and Emergency Mgmt Officer

Emergency contact telephone: 9519283777 24 hour emergency telephone: 9518406373 Emergency contact ext/pin #: 4304 Number of full time employees: 21

EPA ID: Not reported Facility ID provided by CEPPO: 100000089343

Is facility covered by OSHA PSM: Т Is facility covered by EPCRA 302: Is fac. covered by CAA Title V 112(2): Т Clean air op. permit/State ID: F47548

Last safety insp. dat: 2013-12-17 00:00:00

Inspected by: **EPA**

Claim # of employees as CBI:

Is it OSHA approved with star/merit ranking: True Will RMP involve predictive filing: False Submission type: Resubmission RMP description: Not reported Facility has no accident hist. recs: False Not reported Foreign owner's address: Not reported Foreign owner's zip: Foreign owner's country: Not reported

Date RMP accepted by EPA: 2016-06-27 00:00:00 Not reported Date of error Report:

False

Date RMP received: 2014-06-05 00:00:00

Does RMP contain graphics files: False Does RMP contain attachments: False Was certification letter received: True RMP*eSubmit RMP submission method:

Does RMP contain CBI substantiation: False Does RMP contain electronic waiver: False

Date RMP postmarked: 2014-06-05 00:00:00

Is RMP complete: True Date of de-registration: Not reported Date de-registration is effective: Not reported Aniversary date: 2019-06-05 00:00:00

Does RMP contain CBI data: False Does RMP contain unsanitized CBI version: False RMP version #: 1.0 FRS latitude: 33.756 FRS longitude: -117.19311

PLANT ENTRANCE (GENERAL) FRS Description:

FRS Method: ZIP CODE-CENTROID

RMP:

1000051231 Process ID:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

NA & Industry Classification Sys.code(s): 22132

NAICS code description: Sewage Treatment Facilities

Optional facility description: Chlorination

Program level: Record contains CBI data: False

RMP:

Public OCA Chemical Chemical name:

Process chemical qty in 100s lbs:

Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: 100 Physical state:

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported

Wind speed in meters/second: D Stability class: Topography: b

Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Not reported Environmental receptors: Enclosures Passive mitigation: Active mitigation: Not reported Percent weight of chemical: 100

Physical state:

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Not reported Scenario: Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported

Wind speed in meters/second: Stability class: D Topography: b

Distance to endpoint in miles: Not reported Not reported Residential population: Public receptors: Not reported Environmental receptors: Not reported Not reported Passive mitigation: Active mitigation: Operator action

RMP:

Percent weight of chemical: 100 Physical state:

Analytical basic: EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations

Scenario: Not reported Quantity released in pounds: Not reported

Release duration in minutes: 10

Release rate in pounds per second: Not reported

Wind speed in meters/second: 1.5 Stability class: F Topography: b

Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Environmental receptors: Not reported Passive mitigation: Enclosures

RMP:

Endpoint used: Not reported LFL value: Not reported Analytical basic: Not reported Not reported Scenario: Quantity released in pounds: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Not reported Environmental receptors: Passive mitigation: Not reported Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

Safety review date: Not reported Most recent PHA date: Not reported Process Hazard Analysis: Not reported Expected PHA changes completion date: Not reported Major Hazard: Not reported Process Control: Not reported Not reported Mitigation Systems: Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Training: Not reported Competency testing: Not reported Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent changes by mgmt: Not reported Date of most recent review/update: Not reported Date of pre-start review: Not reported Most recent compliance audit date: Not reported Not reported Expected date of audit completion: Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Date of participation plan review: Not reported Date of hot work permit review: Not reported Date of contractor safety review: Not reported Not reported Date of contractor safety eval. review: Record has CBI data: Not reported Safety review date: Not reported Federal Regulation: Not reported Federal regulation comment: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported

Direction Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent hazard review/update: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Expected completion of review changes: Not reported Training: Not reported Competency testing: Not reported Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Not reported Equipment tested: Not reported Most recent compliance audit date: Expected date of audit completion: Not reported Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Record has CBI data: Not reported Not reported Date of most recent changes:

Chemical name: Chlorine
Process chemical qty in 100s lbs: 96000
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported Physical state: Not reported Analytical basic: Not reported Not reported Scenario: Quantity released in pounds: Not reported Release duration in minutes: Not reported Release rate in pounds per second: Not reported Wind speed in meters/second: Not reported Stability class: Not reported Not reported Topography: Not reported Distance to endpoint in miles: Residential population: Not reported Not reported Public receptors: Environmental receptors: Not reported Passive mitigation: Not reported Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported Physical state: Not reported Not reported Analytical basic: Scenario: Not reported Quantity released in pounds: Not reported Not reported Release duration in minutes: Release rate in pounds per second: Not reported Wind speed in meters/second: Not reported Stability class: Not reported Topography: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Not reported Passive mitigation:

RMP:

Endpoint used: Not reported LFL value: Not reported

Map ID MAP FINDINGS
Direction

Direction Distance Elevation

Site Database(s) EPA ID Number

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

EDR ID Number

Analytical basic: Not reported Not reported Scenario: Quantity released in pounds: Not reported Distance to endpoint in miles: Not reported Residential population: Not reported Public receptors: Not reported Environmental receptors: Not reported Passive mitigation: Not reported Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

Safety review date: Not reported Most recent PHA date: Not reported Process Hazard Analysis: Not reported Expected PHA changes completion date: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Training: Not reported Competency testing: Not reported Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Equipment tested: Not reported Not reported Most recent changes by mgmt: Date of most recent review/update: Not reported Date of pre-start review: Not reported Most recent compliance audit date: Not reported Expected date of audit completion: Not reported Not reported Most recent incident investigation: Expected date of investigation changes: Not reported Date of participation plan review: Not reported Date of hot work permit review: Not reported Date of contractor safety review: Not reported Date of contractor safety eval. review: Not reported Record has CBI data: Not reported Safety review date: Not reported Federal Regulation: Not reported Federal regulation comment: Not reported Major Hazard: Not reported Process Control: Not reported Mitigation Systems: Not reported Monitoring/Detection: Not reported Changes since the last process hazard analysis: Not reported Most recent hazard review/update: Not reported Most recent review of op. procedures: Not reported Most recent training progs review/update: Not reported Expected completion of review changes: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

9517652465

PERRIS VALLEY REGIONAL WATER RECLAMATION FACILITY (Continued)

1012126309

Training: Not reported Competency testing: Not reported Most recent maintenance review date: Not reported Most recent equipment inspection date: Not reported Equipment tested: Not reported Most recent compliance audit date: Not reported Not reported Expected date of audit completion: Most recent incident investigation: Not reported Expected date of investigation changes: Not reported Record has CBI data: Not reported Date of most recent changes: Not reported

RMP:

ER plan: Not reported ER plan most recent review date: 2014-04-22 00:00:00 ER plan most recent employee training date: 2013-03-21 00:00:00 Local agency coordinating ER plan: Riverside County

Telephone of the coordinating local agency: Federal regulation: True OSHA 1910 120: True SPCC: True RCRA: False **OPA 90:** False EPCRA: True

Other Regulations: Not reported

D34 **KIEWIT INFRASTRUCTURE WEST CO**

ENE 1301 CASE RD PERRIS, CA 92570 1/2-1

0.708 mi.

3739 ft. Site 18 of 18 in cluster D

Relative: FINDS:

Higher

Registry ID: 110065438538 Actual:

1419 ft.

Environmental Interest/Information System

STATE MASTER

Click this hyperlink while viewing on your computer to access

additional FINDS: detail in the EDR Site Report.

E35 **ETHANAC ROAD WIDENTING**

South **ETHANAC ROAD** 1/2-1 **PERRIS, CA 92570**

0.721 mi.

3807 ft. Site 1 of 2 in cluster E

Relative: NPDES:

Higher Facility Status: Not reported NPDES Number: Not reported Actual: Region: Not reported 1416 ft. Agency Number: Not reported Regulatory Measure ID: Not reported Place ID: Not reported Order Number: Not reported

TC5391347.2s Page 93

S121637404

N/A

FINDS

NPDES

CIWQS

1023254916

N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ETHANAC ROAD WIDENTING (Continued)

S121637404

WDID: Not reported Regulatory Measure Type: Region 8 MS4 CIPs Program Type: Not reported Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Discharge Address: Not reported Discharge Name: Not reported Discharge City: Not reported Discharge State: Not reported Discharge Zip: Not reported Status: Active Status Date: 02/26/2018 Operator Name: City of Perris Operator Address: 101 North D Street

Perris Operator City: Operator State: California Operator Zip: 92570

CIWQS:

City of Perris Agency:

Agency Address: 101 North D Street, Perris, CA 92570

Place/Project Type: Facility SIC/NAICS: Not reported

Region:

Regulatory Measure Type:

MNSTW1 Program: Regulatory Measure Status: Active

R8-2010-0033 Order Number: WDID: Not reported NPDES Number: CAS618033 Adoption Date: Not reported 02/26/2018 Effective Date: Termination Date: Not reported Expiration/Review Date: Not reported Design Flow: Not reported Major/Minor: Not reported Complexity: Not reported TTWQ: Not reported

Enforcement Actions within 5 years: Violations within 5 years: Latitude: 33.74312 Longitude: -117.20637

E36 **NPDES** S121022872 **GREEN VALLEY** South **MURRIETA ROAD AND ETHANAC ROAD** CIWQS N/A

Region 8 MS4 CIPs

1/2-1 **PERRIS, CA 92585**

0.725 mi.

3828 ft. Site 2 of 2 in cluster E

Relative: NPDES:

Higher Facility Status: Not reported NPDES Number: Not reported Actual: Not reported 1416 ft. Region: Agency Number: Not reported Regulatory Measure ID: Not reported

Direction Distance Elevation

evation Site Database(s) EPA ID Number

GREEN VALLEY (Continued) S121022872

Place ID: Not reported Not reported Order Number: 8 33C380498 WDID: Regulatory Measure Type: Construction Program Type: Not reported Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Discharge Address: Not reported Discharge Name: Not reported Discharge City: Not reported Discharge State: Not reported Discharge Zip: Not reported Status: Active 07/20/2017 Status Date:

Operator Name: KB Home Inland Valley
Operator Address: 36310 Indland Valley Dr

Operator City: Wildomar
Operator State: California
Operator Zip: 92595

NPDES as of 03/2018:

Contact:

NPDES Number: Not reported Status: Not reported Agency Number: Not reported

Region: Regulatory Measure ID: 488138 Order Number: Not reported Regulatory Measure Type: Construction Place ID: Not reported WDID: 8 33C380498 Program Type: Not reported Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Discharge Name: Not reported Discharge Address: Not reported Discharge City: Not reported Discharge State: Not reported Discharge Zip: Not reported Received Date: 07/07/2017 Processed Date: 07/20/2017 Status: Active Status Date: 07/20/2017 Place Size: 37.09 Place Size Unit: Acres

Contact Title: Vice President Forward Planning

Ron Mertzel

Contact Phone: 661-219-6880
Contact Phone Ext: Not reported
Contact Email: jodi@h2ologged.com

Operator Name: KB Home

Operator Address: 36310 Inland Valley Dr

Operator City: Wildomar
Operator State: California
Operator Zip: 92595

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

GREEN VALLEY (Continued)

Operator Contact: Ron Mertzel

Operator Contact Title: Vice President Forward Planning

Operator Contact Phone: 661-219-6880 Operator Contact Phone Ext: Not reported

Operator Contact Email: rmertzel@kbhome.com Operator Type: **Private Business** Developer: **KB** Home

Developer Address: 36310 Inland Valley Dr

Developer City: Wildomar Developer State: California Developer Zip: 92595 Developer Contact: Ron Mertzel

Developer Contact Title: Vice President Forward Planning

Constype Linear Utility Ind:

Emergency Phone: 951-704-6165 Emergency Phone Ext: Not reported

Constype Above Ground Ind: Ν Constype Below Ground Ind: Ν Constype Cable Line Ind: Ν Constype Comm Line Ind: Ν Constype Commertial Ind: N Constype Electrical Line Ind: Ν Constype Gas Line Ind: Ν Constype Industrial Ind:

Constype Other Description: Not reported

Constype Other Ind: Constype Recons Ind: Ν Constype Residential Ind: Constype Transport Ind: Ν

Constype Utility Description: Not reported

Constype Utility Ind: N Constype Water Sewer Ind: Ν Dir Discharge Uswater Ind: Ν

Receiving Water Name: Romoland Channel Certifier: Ron Mertzel

Certifier Title: Vice President Forward Planning

Certification Date: 07-JUL-17 Primary Sic: Not reported Secondary Sic: Not reported **Tertiary Sic:** Not reported

NPDES Number: CAS000002 Status: Active Agency Number: 0 Region: 8 Regulatory Measure ID: 488138

Order Number: 2009-0009-DWQ

Regulatory Measure Type: Enrollee Place ID: Not reported WDID: 8 33C380498

Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 07/20/2017 Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Discharge Name: **KB Home**

Discharge Address: 36310 Inland Valley Dr S121022872

Distance Elevation Site

Site Database(s)

GREEN VALLEY (Continued) S121022872

Discharge City: Wildomar Discharge State: California Discharge Zip: 92595 Received Date: Not reported Processed Date: Not reported Not reported Status: Not reported Status Date: Place Size: Not reported Place Size Unit: Not reported Contact: Not reported Contact Title: Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Contact Email: Not reported Operator Name: Not reported Operator Address: Not reported Not reported Operator City: Operator State: Not reported Operator Zip: Not reported **Operator Contact:** Not reported Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Not reported Operator Contact Phone Ext: Operator Contact Email: Not reported Operator Type: Not reported Developer: Not reported Developer Address: Not reported Developer City: Not reported Developer State: Not reported Developer Zip: Not reported Developer Contact: Not reported **Developer Contact Title:** Not reported Constype Linear Utility Ind: Not reported **Emergency Phone:** Not reported Emergency Phone Ext: Not reported Constype Above Ground Ind: Not reported Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Constype Electrical Line Ind: Not reported Not reported Constype Gas Line Ind: Constype Industrial Ind: Not reported Constype Other Description: Not reported Constype Other Ind: Not reported Constype Recons Ind: Not reported Constype Residential Ind: Not reported Constype Transport Ind: Not reported Constype Utility Description: Not reported Constype Utility Ind: Not reported Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Certifier: Not reported Certifier Title: Not reported Certification Date: Not reported Primary Sic: Not reported **EDR ID Number**

EPA ID Number

Distance Elevation

Site Database(s) EPA ID Number

GREEN VALLEY (Continued) S121022872

Secondary Sic: Not reported Tertiary Sic: Not reported

Facility Status: Active NPDES Number: CAS000002

Region: 8 Agency Number: 0 Regulatory Measure ID: 488138 Place ID: Not reported 2009-0009-DWQ Order Number: 8 33C380498 WDID: Regulatory Measure Type: Enrollee Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 07/20/2017 Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported

Discharge Address: 36310 Indland Valley Dr Discharge Name: KB Home Inland Valley

Not reported

Discharge City: Wildomar Discharge State: California Discharge Zip: 92595 Status: Not reported Status Date: Not reported Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Not reported Operator Zip:

NPDES as of 03/2018: NPDES Number:

Status: Not reported Not reported Agency Number: Region: Regulatory Measure ID: 488138 Order Number: Not reported Regulatory Measure Type: Construction Place ID: Not reported WDID: 8 33C380498 Not reported Program Type: Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Discharge Name: Not reported Discharge Address: Not reported Discharge City: Not reported Discharge State: Not reported Discharge Zip: Not reported Received Date: 07/07/2017 Processed Date: 07/20/2017 Status: Active Status Date: 07/20/2017 Place Size: 37.09 Place Size Unit: Acres Contact: Ron Mertzel

Direction Distance Elevation

tion Site Database(s) EPA ID Number

GREEN VALLEY (Continued)

Contact Title: Vice President Forward Planning

Contact Phone: 661-219-6880
Contact Phone Ext: Not reported
Contact Email: jodi@h2ologged.com
Operator Name: KB Home

Operator Address: 36310 Inland Valley Dr

Operator City: Wildomar
Operator State: California
Operator Zip: 92595
Operator Contact: Ron Mertzel

Operator Contact Title: Vice President Forward Planning

Operator Contact Phone: 661-219-6880
Operator Contact Phone Ext: Not reported

Operator Contact Email: rmertzel@kbhome.com
Operator Type: Private Business
Developer: KB Home

Developer Address: 36310 Inland Valley Dr

Developer City: Wildomar
Developer State: California
Developer Zip: 92595
Developer Contact: Ron Mertzel

Developer Contact Title: Vice President Forward Planning

Constype Linear Utility Ind:

Emergency Phone:

Emergency Phone Ext:

N

N

951-704-6165

Not reported

Constype Above Ground Ind: N Constype Below Ground Ind: Ν Constype Cable Line Ind: Ν Constype Comm Line Ind: Ν Constype Commertial Ind: Ν Constype Electrical Line Ind: Ν Constype Gas Line Ind: Ν Constype Industrial Ind: Ν

Constype Other Description: Not reported

Constype Other Ind: N
Constype Recons Ind: N
Constype Residential Ind: Y
Constype Transport Ind: N

Constype Utility Description: Not reported

Constype Utility Ind: N
Constype Water Sewer Ind: N
Dir Discharge Uswater Ind: N

Receiving Water Name: Romoland Channel Certifier: Ron Mertzel

Certifier Title: Vice President Forward Planning

Certification Date: 07-JUL-17
Primary Sic: Not reported
Secondary Sic: Not reported
Tertiary Sic: Not reported

 NPDES Number:
 CAS000002

 Status:
 Active

 Agency Number:
 0

 Region:
 8

 Regulatory Measure ID:
 488138

Order Number: 2009-0009-DWQ

Regulatory Measure Type: Enrollee

EDR ID Number

S121022872

MAP FINDINGS Map ID Direction

Distance Elevation

Site Database(s) **EPA ID Number**

GREEN VALLEY (Continued)

S121022872

EDR ID Number

Place ID: Not reported 8 33C380498 WDID: Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 07/20/2017 Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Discharge Name: **KB** Home

36310 Inland Valley Dr

Discharge Address: Discharge City: Wildomar Discharge State: California Discharge Zip: 92595 Received Date: Not reported Processed Date: Not reported Status: Not reported Status Date: Not reported Not reported Place Size: Place Size Unit: Not reported Contact: Not reported Contact Title: Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Contact Email: Not reported Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Operator Zip: Not reported **Operator Contact:** Not reported Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Not reported Operator Contact Email: Not reported Operator Type: Not reported Not reported Developer: Developer Address: Not reported Developer City: Not reported Developer State: Not reported Developer Zip: Not reported **Developer Contact:** Not reported **Developer Contact Title:** Not reported Not reported Constype Linear Utility Ind: **Emergency Phone:** Not reported Emergency Phone Ext: Not reported Constype Above Ground Ind: Not reported Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Not reported Constype Electrical Line Ind: Constype Gas Line Ind: Not reported Constype Industrial Ind: Not reported Constype Other Description: Not reported Constype Other Ind: Not reported Constype Recons Ind: Not reported Constype Residential Ind: Not reported Constype Transport Ind: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

GREEN VALLEY (Continued) S121022872

Constype Utility Description: Not reported Not reported Constype Utility Ind: Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Certifier: Not reported Certifier Title: Not reported Certification Date: Not reported Primary Sic: Not reported Secondary Sic: Not reported **Tertiary Sic:** Not reported

CIWQS:

KB Home Inland Valley Agency:

36310 Indland Valley Dr, Wildomar, CA 92595 Agency Address:

Place/Project Type: Construction - Residential

SIC/NAICS: Not reported Region:

CONSTW Program: Regulatory Measure Status: Active

Regulatory Measure Type: Storm water construction

Order Number: 2009-0009-DWQ WDID: 8 33C380498 NPDES Number: CAS000002 Adoption Date: Not reported Effective Date: 07/20/2017 Termination Date: Not reported Expiration/Review Date: Not reported Not reported Design Flow: Major/Minor: Not reported Complexity: Not reported TTWQ: Not reported

Enforcement Actions within 5 years: 0 Violations within 5 years: n 33.74388 Latitude: Longitude: -117.20735

37 **EMWD PERRIS VALLEY RWRF** AST A100419782 **East 1301 CASE RD** N/A

1/2-1 **PERRIS, CA 92570**

0.740 mi. 3905 ft.

Relative: AST:

Higher Certified Unified Program Agencies: Not reported

EMWD Safety-Risk Mgt Owner: Actual:

Total Gallons: Not reported 1424 ft. 10322806 CERSID: Facility ID: Not reported

> Business Name: Eastern Municipal Water District

Phone: (951) 928-3777 Fax: Not reported Mailing Address: PO Box 8300 Mailing Address City: Perris

Mailing Address State: CA 92572 Mailing Address Zip Code:

Direction Distance

Elevation Site Database(s) EPA ID Number

EMWD PERRIS VALLEY RWRF (Continued)

A100419782

EDR ID Number

Operator Name: Doug Edwards
Operator Phone: (951)928-3777
Owner Phone: (909) 928-3777
Owner Mail Address: PO Box 8300

Owner State: CA
Owner Zip Code: 92572
Owner Country: United States

Property Owner Name: Eastern Municipal Water District

Property Owner Phone: Not reported Property Owner Mailing Address: P.O. Box 8300

Property Owner City: Perris
Property Owner Stat: CA
Property Owner Zip Code: 92572
Property Owner Country: United States
EPAID: CAL000089264

Perris City

38 CASE ROAD BRIDGE

CIWQS \$120026904 N/A

North 1/2-1

1/2-1 RIVERSIDE (County), CA 0.748 mi.

3948 ft.

Relative: CIWQS: Lower Agency:

Actual: Agency Address: 101 North D Street, Perris, CA 92570

1413 ft.

Place/Project Type: Dredge/Fill Site SIC/NAICS: Not reported

Region: 8

Program: CERFILLEXC

Regulatory Measure Status: Active
Regulatory Measure Type: 401 Certification

Order Number: Not reported WDID: Not reported NPDES Number: Not reported Adoption Date: 02/27/2009 Effective Date: 02/27/2009 Termination Date: Not reported 02/27/2019 Expiration/Review Date: Design Flow: Not reported Major/Minor: Not reported Complexity: Not reported TTWQ: Not reported

Enforcement Actions within 5 years: 0
Violations within 5 years: 0

Latitude: 33.764431 Longitude: -117.206847

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

39 **ROMOLAND MDP LINE A, STAGE 3** CIWQS S121669246 N/A

PROJECT VICINITY IS PARALLEL TO ETHANAC ROAD NEAR MURRIETA R SSE

PERRIS, CA 92585 1/2-1

0.777 mi. 4103 ft.

Relative: CIWQS: Higher Riverside County Flood Control and Water Conservation District Agency:

Agency Address: 1995 Market Street, Riverside, CA 92501 Actual:

Place/Project Type: Facility 1418 ft. SIC/NAICS: Not reported

Region:

MNSTW1 Program: **Terminated** Regulatory Measure Status:

Region 8 MS4 CIPs Regulatory Measure Type: Order Number: R8-2010-0033 WDID: Not reported CAS618033 NPDES Number: Adoption Date: Not reported Effective Date: 04/30/2014 Termination Date: 08/04/2015 Expiration/Review Date: Not reported Design Flow: Not reported Major/Minor: Not reported Complexity: Not reported TTWQ: Not reported

Enforcement Actions within 5 years: 0 Violations within 5 years: 0 Latitude: 33.74306 Longitude: -117.20201

GREEN VALLEY TR 36988 & TR 36989 BACKBONE

SW **APPROXIMATELY 26065 ETHANAC ROAD**

1/2-1 **PERRIS, CA 92585**

0.785 mi.

F40

Site 1 of 2 in cluster F 4143 ft.

Relative: NPDES:

Higher Facility Status: Not reported NPDES Number: Not reported Actual: Not reported Region: 1419 ft. Agency Number: Not reported Regulatory Measure ID: Not reported

Place ID: Not reported Not reported Order Number: WDID: 8 33C381097 Regulatory Measure Type: Construction Program Type: Not reported Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Discharge Address: Not reported Discharge Name: Not reported Discharge City: Not reported Discharge State: Not reported Discharge Zip: Not reported

Status: Active Status Date: 09/18/2017

Operator Name: Green Valley Recovery Acquisition LLC **NPDES**

CIWQS

S121183817

N/A

Distance

Elevation Site Database(s) EPA ID Number

GREEN VALLEY TR 36988 & TR 36989 BACKBONE (Continued)

S121183817

EDR ID Number

Operator Address: 5796 Armada Drive

Operator City: Carlsbad
Operator State: California
Operator Zip: 92008

NPDES as of 03/2018:

CAS000002 NPDES Number: Status: Active Agency Number: Region: 8 Regulatory Measure ID: 490844 2009-0009-DWQ Order Number: Regulatory Measure Type: Enrollee Place ID: Not reported WDID: 8 33C381097

WDID: 8 33C381097
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 09/18/2017
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Displaces Name: Cream Value

Discharge Name: Green Valley Recovery Acquisition LLC

Discharge Address: 5796 Armada Drive

Discharge City: Carlsbad Discharge State: California Discharge Zip: 92008 Received Date: Not reported Processed Date: Not reported Not reported Status: Status Date: Not reported Place Size: Not reported Place Size Unit: Not reported Not reported Contact: Contact Title: Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Not reported Contact Email:

Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Not reported Operator Zip: Not reported **Operator Contact:** Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Not reported Operator Contact Email: Not reported Operator Type: Not reported Developer: Not reported Developer Address: Not reported

Developer Contact:

Developer Contact Title:

Constype Linear Utility Ind:

Emergency Phone:

Emergency Phone Ext:

Constype Above Ground Ind:

Not reported

Developer City:

Developer Zip:

Developer State:

Direction Distance Elevation

ration Site Database(s) EPA ID Number

GREEN VALLEY TR 36988 & TR 36989 BACKBONE (Continued)

S121183817

EDR ID Number

Constype Below Ground Ind: Not reported Not reported Constype Cable Line Ind: Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Constype Electrical Line Ind: Not reported Constype Gas Line Ind: Not reported Constype Industrial Ind: Not reported Constype Other Description: Not reported Constype Other Ind: Not reported Constype Recons Ind: Not reported Constype Residential Ind: Not reported Constype Transport Ind: Not reported Constype Utility Description: Not reported Constype Utility Ind: Not reported Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Certifier: Not reported Certifier Title: Not reported Certification Date: Not reported Primary Sic: Not reported Secondary Sic: Not reported **Tertiary Sic:** Not reported

Facility Status: Active NPDES Number: CAS000002 Region: Agency Number: 0 Regulatory Measure ID: 490844 Place ID: Not reported Order Number: 2009-0009-DWQ WDID: 8 33C381097 Regulatory Measure Type: Enrollee Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 09/18/2017

Expiration Date Of Regulatory Measure: Not reported Discharge Address: 5796 Armada Drive

Termination Date Of Regulatory Measure:

Discharge Name: Green Valley Recovery Acquisition LLC

Not reported

Discharge City: Carlsbad Discharge State: California Discharge Zip: 92008 Status: Not reported Status Date: Not reported Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: CAS000002
Status: Active
Agency Number: 0
Region: 8
Regulatory Measure ID: 490844

MAP FINDINGS Map ID Direction

Distance

Elevation Site Database(s) **EPA ID Number**

GREEN VALLEY TR 36988 & TR 36989 BACKBONE (Continued)

S121183817

EDR ID Number

Order Number: 2009-0009-DWQ Regulatory Measure Type: Enrollee Place ID: Not reported WDID: 8 33C381097 Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 09/18/2017 Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported

Discharge Name: Green Valley Recovery Acquisition LLC

Not reported

Not reported

Not reported

Not reported

Not reported

Not reported

5796 Armada Drive

Discharge Address: Discharge City: Carlsbad Discharge State: California Discharge Zip: 92008 Received Date: Not reported Processed Date: Not reported Not reported Status: Status Date: Not reported Place Size: Not reported Place Size Unit: Not reported Not reported Contact: Contact Title: Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Contact Email: Not reported Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Operator Zip: Not reported Operator Contact: Not reported Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Not reported Not reported Operator Contact Email: Operator Type: Not reported Developer: Not reported Developer Address: Not reported Developer City: Not reported Developer State: Not reported Developer Zip: Not reported **Developer Contact:** Not reported **Developer Contact Title:** Not reported Constype Linear Utility Ind: Not reported **Emergency Phone:** Not reported Emergency Phone Ext: Not reported Constype Above Ground Ind: Not reported Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Not reported Constype Comm Line Ind: Constype Commertial Ind: Not reported

Constype Electrical Line Ind:

Constype Other Description:

Constype Gas Line Ind:

Constype Industrial Ind:

Constype Other Ind:

Constype Recons Ind:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

GREEN VALLEY TR 36988 & TR 36989 BACKBONE (Continued)

S121183817

Constype Residential Ind: Not reported Not reported Constype Transport Ind: Constype Utility Description: Not reported Constype Utility Ind: Not reported Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Not reported Certifier: Certifier Title: Not reported Certification Date: Not reported Primary Sic: Not reported Secondary Sic: Not reported Tertiary Sic: Not reported

CIWQS:

Agency: Green Valley Recovery Acquisition LLC

Agency Address: 5796 Armada Drive Suite 375, Carlsbad, CA 92008

Place/Project Type: Construction - Transportation

SIC/NAICS: Not reported

Region:

Program: **CONSTW** Regulatory Measure Status: Active

Regulatory Measure Type: Storm water construction

2009-0009-DWQ Order Number: WDID: 8 33C381097 NPDES Number: CAS000002 Adoption Date: Not reported Effective Date: 09/18/2017 Termination Date: Not reported Expiration/Review Date: Not reported Design Flow: Not reported Major/Minor: Not reported Complexity: Not reported TTWQ: Not reported

Enforcement Actions within 5 years: 0

Violations within 5 years:

Latitude: 33.744332 Longitude: -117.214858

F41 **GREEN VALLEY TRACT 36989 NPDES** S121183819 SW **APPROXIMATELY 25245 ETHANAC ROAD CIWQS** N/A

1/2-1 **PERRIS, CA 92585**

0.785 mi.

4143 ft. Site 2 of 2 in cluster F

Relative: NPDES:

Higher Facility Status: Not reported NPDES Number: Not reported Actual: Region: Not reported 1419 ft. Not reported Agency Number: Regulatory Measure ID: Not reported Place ID: Not reported Order Number: Not reported

> WDID: 8 33C380934 Regulatory Measure Type: Construction Program Type: Not reported

Distance

Elevation Site Database(s) EPA ID Number

GREEN VALLEY TRACT 36989 (Continued)

S121183819

EDR ID Number

Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Discharge Address: Not reported Discharge Name: Not reported Discharge City: Not reported Discharge State: Not reported Discharge Zip: Not reported Status: Active Status Date: 08/31/2017

Operator Name: Green Valley Recovery Acquisition LLC

Operator Address: 5796 Armada Drive

Operator City: Carlsbad
Operator State: California
Operator Zip: 92008

NPDES as of 03/2018:

 NPDES Number:
 CAS000002

 Status:
 Active

 Agency Number:
 0

 Region:
 8

 Regulatory Measure ID:
 490447

Order Number: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported

WDID: 8 33C380934
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 08/31/2017
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported

Discharge Name: Green Valley Recovery Acquisition LLC

Discharge Address: 5796 Armada Drive

Discharge City: Carlsbad Discharge State: California Discharge Zip: 92008 Received Date: Not reported Processed Date: Not reported Status: Not reported Not reported Status Date: Place Size: Not reported Place Size Unit: Not reported Contact: Not reported Contact Title: Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Contact Email: Not reported Operator Name: Not reported Operator Address: Not reported Operator City: Not reported Operator State: Not reported Operator Zip: Not reported Operator Contact: Not reported Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Not reported Operator Contact Email: Not reported

Direction Distance Elevation

n Site Database(s) EPA ID Number

GREEN VALLEY TRACT 36989 (Continued)

S121183819

EDR ID Number

Operator Type: Not reported Developer: Not reported Developer Address: Not reported Developer City: Not reported Developer State: Not reported Developer Zip: Not reported Developer Contact: Not reported **Developer Contact Title:** Not reported Constype Linear Utility Ind: Not reported **Emergency Phone:** Not reported Emergency Phone Ext: Not reported Constype Above Ground Ind: Not reported Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Constype Electrical Line Ind: Not reported Constype Gas Line Ind: Not reported Constype Industrial Ind: Not reported Constype Other Description: Not reported Constype Other Ind: Not reported Constype Recons Ind: Not reported Constype Residential Ind: Not reported Constype Transport Ind: Not reported Constype Utility Description: Not reported Constype Utility Ind: Not reported Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Certifier: Not reported Not reported Certifier Title: Certification Date: Not reported Primary Sic: Not reported Secondary Sic: Not reported Not reported **Tertiary Sic:**

Facility Status: Active
NPDES Number: CAS000002

Region: 8 Agency Number: 0 Regulatory Measure ID: 490447 Place ID: Not reported 2009-0009-DWQ Order Number: WDID: 8 33C380934 Regulatory Measure Type: Enrollee Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 08/31/2017 Termination Date Of Regulatory Measure: Not reported Expiration Date Of Regulatory Measure: Not reported Discharge Address: 5796 Armada Drive

Discharge Name: Green Valley Recovery Acquisition LLC

Discharge City:
Carlsbad
Discharge State:
California
Discharge Zip:
92008
Status:
Not reported

MAP FINDINGS Map ID Direction

Distance Elevation

Site Database(s) **EPA ID Number**

GREEN VALLEY TRACT 36989 (Continued)

S121183819

EDR ID Number

Status Date: Not reported Not reported Operator Name: Operator Address: Not reported Operator City: Not reported Operator State: Not reported Operator Zip: Not reported

NPDES as of 03/2018:

Developer Zip:

Developer Contact:

Emergency Phone:

Developer Contact Title:

Constype Linear Utility Ind:

NPDES Number: CAS000002 Status: Active Agency Number: 0 Region: 8 Regulatory Measure ID: 490447

2009-0009-DWQ Order Number: Regulatory Measure Type: Enrollee Place ID: Not reported WDID: 8 33C380934 Program Type: Construction Adoption Date Of Regulatory Measure: Not reported Effective Date Of Regulatory Measure: 08/31/2017 Expiration Date Of Regulatory Measure: Not reported Termination Date Of Regulatory Measure: Not reported

Discharge Name: Green Valley Recovery Acquisition LLC

Not reported

Not reported

Not reported

Not reported

Not reported

Discharge Address: 5796 Armada Drive

Discharge City: Carlsbad Discharge State: California Discharge Zip: 92008 Received Date: Not reported Processed Date: Not reported Status: Not reported Status Date: Not reported Place Size: Not reported Place Size Unit: Not reported Contact: Not reported Contact Title: Not reported Contact Phone: Not reported Contact Phone Ext: Not reported Contact Email: Not reported Operator Name: Not reported Operator Address: Not reported Not reported Operator City: Not reported Operator State: Operator Zip: Not reported **Operator Contact:** Not reported Operator Contact Title: Not reported **Operator Contact Phone:** Not reported Operator Contact Phone Ext: Not reported Operator Contact Email: Not reported Operator Type: Not reported Developer: Not reported Developer Address: Not reported Developer City: Not reported Developer State: Not reported

Direction Distance Elevation

vation Site Database(s) EPA ID Number

GREEN VALLEY TRACT 36989 (Continued)

S121183819

EDR ID Number

Emergency Phone Ext: Not reported Not reported Constype Above Ground Ind: Constype Below Ground Ind: Not reported Constype Cable Line Ind: Not reported Constype Comm Line Ind: Not reported Constype Commertial Ind: Not reported Constype Electrical Line Ind: Not reported Constype Gas Line Ind: Not reported Constype Industrial Ind: Not reported Constype Other Description: Not reported Constype Other Ind: Not reported Constype Recons Ind: Not reported Constype Residential Ind: Not reported Constype Transport Ind: Not reported Constype Utility Description: Not reported Not reported Constype Utility Ind: Constype Water Sewer Ind: Not reported Dir Discharge Uswater Ind: Not reported Receiving Water Name: Not reported Certifier: Not reported Certifier Title: Not reported Certification Date: Not reported Not reported Primary Sic: Secondary Sic: Not reported Tertiary Sic: Not reported

CIWQS:

Agency: Green Valley Recovery Acquisition LLC

Agency Address: 5796 Armada Drive Suite 375, Carlsbad, CA 92008

Place/Project Type: Construction - Residential

SIC/NAICS: Not reported Region: 8

Program: CONSTW Regulatory Measure Status: Active

Regulatory Measure Type: Storm water construction

2009-0009-DWQ Order Number: WDID: 8 33C380934 NPDES Number: CAS000002 Adoption Date: Not reported Effective Date: 08/31/2017 Termination Date: Not reported Expiration/Review Date: Not reported Design Flow: Not reported Major/Minor: Not reported Complexity: Not reported TTWQ: Not reported

Enforcement Actions within 5 years: 0
Violations within 5 years: 0

Latitude: 33.744332 Longitude: -117.214858

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

42 **WEST CASE ROAD BRIDGE** CIWQS S121690783 N/A

North

RIVERSIDE (County), CA 1/2-1

0.810 mi. 4279 ft.

Relative: CIWQS:

Lower Perris City Agency:

Actual: 1413 ft.

101 North D Street, Perris, CA 92570 Agency Address: Place/Project Type: Dredge/Fill Site

SIC/NAICS: Not reported

Region:

Program: **CERFILLEXC** Regulatory Measure Status: Historical Regulatory Measure Type: 401 Certification Order Number: Not reported WDID: Not reported NPDES Number: Not reported Adoption Date: Not reported Effective Date: 02/27/2009 Termination Date: 02/27/2014 Expiration/Review Date: 02/27/2014 Design Flow: Not reported Major/Minor: Not reported Complexity: Not reported TTWQ: Not reported

Enforcement Actions within 5 years: 0 Violations within 5 years: 0

Latitude: 33.765278 Longitude: -117.20833

43 PERRIS VALLEY RWRF **ENE** 1301 CASE ROAD

1/2-1 **PERRIS, CA 92570**

0.810 mi. 4279 ft.

Relative: FINDS:

Higher

110000517646 Registry ID: Actual:

1421 ft.

Environmental Interest/Information System

COMPLIANCE AND EMISSIONS REPORTING

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section

112(r) of the Clean Air Act (CAA).

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

FINDS

1017429070

N/A

EDR ID Number

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

44 E.M.W.D. PERRIS PUMPING PLANT LUST S109285014
ESE 1330 E WATSON RD CHMIRS N/A

ESE 1330 E WATSON RD 1/2-1 PERRIS, CA 92570

0.814 mi. 4297 ft.

Relative: LUST:

Higher Lead Agency: RIVERSIDE COUNTY LOP

Actual: Case Type: LUST Cleanup Site

1422 ft. Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500409

 Global Id:
 T0606500409

 Latitude:
 33.7512536676673

 Longitude:
 -117.193022226031

 Status:
 Completed - Case Closed

 Status Date:
 08/24/1995

 Case Worker:
 RIV

 RB Case Number:
 083302605T

Local Agency: RIVERSIDE COUNTY LOP File Location: Local Agency Warehouse

Local Case Number: 95002

Potential Media Affect: Aquifer used for drinking water supply Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating

Site History: Not reported

LUST:

Global Id: T0606500409

Contact Type: Regional Board Caseworker
Contact Name: NANCY OLSON-MARTIN
Organization Name: SANTA ANA RWQCB (REGION 8)

Address: 3737 MAIN STREET, SUITE 500

City: RIVERSIDE

Email: nolson-martin@waterboards.ca.gov

Phone Number: Not reported

Global Id: T0606500409

Contact Type: Local Agency Caseworker
Contact Name: Riverside County LOP
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200

City: RIVERSIDE Email: Not reported Phone Number: 9519558980

LUST:

 Global Id:
 T0606500409

 Action Type:
 Other

 Date:
 01/04/1995

 Action:
 Leak Discovery

 Global Id:
 T0606500409

 Action Type:
 ENFORCEMENT

 Date:
 08/24/1995

Action: Closure/No Further Action Letter - #Riv Co Closure

Global Id: T0606500409
Action Type: ENFORCEMENT
Date: 08/24/1995

Action: Closure/No Further Action Letter

Direction Distance

Elevation Site Database(s) EPA ID Number

E.M.W.D. PERRIS PUMPING PLANT (Continued)

S109285014

EDR ID Number

 Global Id:
 T0606500409

 Action Type:
 Other

 Date:
 01/17/1994

 Action:
 Leak Stopped

 Global Id:
 T0606500409

 Action Type:
 ENFORCEMENT

 Date:
 08/23/1995

Action: File review - #RCDEH Upload Site File 3/11/2015

 Global Id:
 T0606500409

 Action Type:
 Other

 Date:
 01/04/1995

 Action:
 Leak Reported

LUST:

Global Id: T0606500409

Status: Open - Case Begin Date

Status Date: 01/17/1994

Global Id: T0606500409

Status: Completed - Case Closed

Status Date: 08/24/1995

RIVERSIDE CO. LUST:

Region: RIVERSIDE
Facility ID: 95002
Employee: Brown
Site Closed: Yes
Case Type: Undefined

Facility Status: closed/action completed

Casetype Decode: Undefined

Fstatus Decode: Closed/Action completed

CHMIRS:

OES Incident Number: 10-1095 OES notification: 02/11/2010 OES Date: Not reported Not reported **OES Time: Date Completed:** Not reported Property Use: Not reported Agency Id Number: Not reported Not reported Agency Incident Number: Time Notified: Not reported Time Completed: Not reported Surrounding Area: Not reported Estimated Temperature: Not reported **Property Management:** Not reported More Than Two Substances Involved?: Not reported Resp Agncy Personel # Of Decontaminated: Not reported Responding Agency Personel # Of Injuries: Not reported Not reported Responding Agency Personel # Of Fatalities: Others Number Of Decontaminated: Not reported Others Number Of Injuries: Not reported Others Number Of Fatalities: Not reported

Distance

Elevation Site Database(s) EPA ID Number

E.M.W.D. PERRIS PUMPING PLANT (Continued)

S109285014

EDR ID Number

Vehicle Make/year: Not reported Vehicle License Number: Not reported Vehicle State: Not reported Vehicle Id Number: Not reported CA DOT PUC/ICC Number: Not reported Not reported Company Name: Reporting Officer Name/ID: Not reported Report Date: Not reported Facility Telephone: Not reported Waterway Involved: No

Waterway: Not reported
Spill Site: Other
Cleanup By: Reporting Party

Cleanup By: Reporting Pa
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Gal(s)
Other: Not reported
Date/Time: 845
Year: 2010

Agency: Eastern Muni Water Dist.

Incident Date: 2/11/2010

Admin Agency: Riverside County Environmental Health

Amount: Not reported Contained: Yes Site Type: Not reported E Date: Not reported Substance: Motor Oil Quantity Released: 7

Unknown: Not reported Substance #2: Not reported Substance #3: Not reported Evacuations: Not reported Number of Injuries: Not reported Number of Fatalities: Not reported #1 Pipeline: Not reported #2 Pipeline: Not reported #3 Pipeline: Not reported #1 Vessel >= 300 Tons: Not reported #2 Vessel >= 300 Tons: Not reported #3 Vessel >= 300 Tons: Not reported Evacs: Not reported Injuries: Not reported Fatals: Not reported Not reported Comments:

Description: A pipe fitting on a sensor failed, causing a

spill from oil pan.

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

G45 ERNS 2005778855 N/A

NW **75 PASEO ADELNTO** 1/2-1 **PARRIS, CA 92570**

0.985 mi.

5200 ft. Site 1 of 3 in cluster G

Relative:

Click this hyperlink while viewing on your computer to access Higher

additional ERNS detail in the EDR Site Report.

Actual: 1418 ft.

G46 SPAULDING EQUIPMENT COMPANY

NW **75 PASEO ADELANTO** 1/2-1 **PERRIS, CA 92570**

0.985 mi.

5200 ft. Site 2 of 3 in cluster G

Relative: HAZNET:

Higher envid: S113138193 Year: 2016 Actual:

CAL000296508 GEPAID: 1418 ft. Contact: FRED STEMRICH Telephone: 9519434531

Mailing Name: Not reported Mailing Address: PO BOX 1807 PERRIS, CA 925720000 Mailing City, St, Zip:

Gen County: Riverside TSD EPA ID: AZR000501510

TSD County: 99

Waste Category: Unspecified oil-containing waste

Disposal Method: Not reported Tons: Not reported

Cat Decode: Unspecified oil-containing waste

Not reported Method Decode: Facility County: Riverside

envid: S113138193 Year: 2016

GEPAID: CAL000296508 FRED STEMRICH Contact: Telephone: 9519434531 Mailing Name: Not reported Mailing Address: PO BOX 1807

Mailing City, St, Zip: PERRIS, CA 925720000

Gen County: Riverside MXC130619001 TSD EPA ID: TSD County: Not reported

Waste Category: Waste oil and mixed oil

Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

Organics Recovery Ect

Tons: 0.209

Cat Decode: Waste oil and mixed oil

Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Method Decode:

Organics Recovery Ect

Facility County: Riverside

envid: S113138193 Year: 2016

GEPAID: CAL000296508 Contact: FRED STEMRICH Telephone: 9519434531 Mailing Name: Not reported

HAZNET S113138193

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

SPAULDING EQUIPMENT COMPANY (Continued)

S113138193

EDR ID Number

Mailing Address: PO BOX 1807

Mailing City, St, Zip: PERRIS, CA 925720000

Gen County: Riverside
TSD EPA ID: MXC130619001
TSD County: Not reported

Waste Category: Unspecified solvent mixture

Disposal Method: Solvents Recovery

Tons: 0.09

Cat Decode: Unspecified solvent mixture

Method Decode: Solvents Recovery

Facility County: Riverside

envid: \$113138193 Year: 2016

GEPAID: CAL000296508
Contact: FRED STEMRICH
Telephone: 9519434531
Mailing Name: Not reported
Mailing Address: PO BOX 1807

Mailing City, St, Zip: PERRIS, CA 925720000

Gen County: Riverside
TSD EPA ID: AZR000501510

TSD County:

Waste Category: Other organic solids

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 1.325

Cat Decode: Other organic solids

Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Facility County: Riverside

envid: \$113138193 Year: 2015

GEPAID: CAL000296508
Contact: FRED STEMRICH
Telephone: 9519434531
Mailing Name: Not reported
Mailing Address: PO BOX 1807

Mailing City, St, Zip: PERRIS, CA 925720000

Gen County: Riverside
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Latex waste

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

(H010-H129) Or (H131-H135)

Tons: 1.2

Cat Decode: Not reported Method Decode: Not reported Facility County: Riverside

Click this hyperlink while viewing on your computer to access 62 additional CA_HAZNET: record(s) in the EDR Site Report.

Direction Distance

Distance EDR ID Number

Elevation Site EDA ID Number

G47 ALTEC INDUSTRIES INC RCRA-SQG 1023966928
NW 75 PASEO ADELANTO BLDG A CAR000276899

1/2-1 PERRIS, CA 92570

0.985 mi.

5200 ft. Site 3 of 3 in cluster G

EPA ID:

Relative: RCRA-SQG:

Higher Date form received by agency: 10/19/2017

Actual:Facility name:ALTEC INDUSTRIES INC1418 ft.Facility address:75 PASEO ADELANTO BLDG A

PERRIS, CA 92570 CAR000276899

Mailing address: PASEO ADELANTO BLDG A

PERRIS, CA 92570

Contact: JOSH D HAMILTON

Contact address: PASEO ADELANTO BLDG A

PERRIS, CA 92570

Contact country: US

Contact telephone: 816-676-4065

Contact email: JOSH.HAMILTON@ALTEC.COM

EPA Region: 09

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: JOSH HAMILTON

Owner/operator address: PASEO ADELANTO BLDG A

PERRIS, CA 92570

Owner/operator country: US

Owner/operator telephone: 816-676-4065

Owner/operator email: JOSH.HAMILTON@ALTEC.COM

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/05/2017
Owner/Op end date: Not reported

Owner/operator name: DOS MALAKAS LLC
Owner/operator address: PACIFIC COAST HWY #D3
DANA POINT, CA 92629

Owner/operator country: US

Owner/operator telephone: 800-732-7278
Owner/operator email: NONE@NONE.COM

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/25/2016
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No

Map ID MAP FINDINGS
Direction

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

ALTEC INDUSTRIES INC (Continued)

1023966928

Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: Nο User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

. Waste code: 214

. Waste name: Unspecified solvent mixture

Waste code: 222

. Waste name: Oil/water separation sludge

Waste code: 223

. Waste name: Unspecified oil-containing waste

Waste code: 272

Waste name: Polymeric resin waste

. Waste code: 281 . Waste name: Adhesives

Waste code: 512

Waste name: Other empty containers 30 gallons or more

Waste code: 513

. Waste name: Empty containers less than 30 gallons

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT

WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS

CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: F003

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL

ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL

ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

ALTEC INDUSTRIES INC (Continued)

1023966928

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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.

Waste code: F005

Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

First Industrial Realty Trust Inc

Construction - Industrial

Storm water construction

Not reported

CONSTW

Terminated

2009-0009-DWQ

8 33C352050

CAS000002

Not reported

05/29/2008 09/02/2010

Not reported

Not reported

Not reported

Not reported

Not reported

0

114 Pacifica #220E, Irvine, CA 92618

Violation Status: No violations found

S PERRIS DISTRIBUTION CENTER

WNW **MAPES RD & GOETZ RD PERRIS. CA 92570** 1/2-1

1.000 mi. 5278 ft.

48

Relative: CIWQS: Higher Agency:

Actual: 1417 ft. Agency Address: Place/Project Type:

SIC/NAICS:

Region: Program: Regulatory Measure Status: Regulatory Measure Type:

Order Number: WDID: NPDES Number: Adoption Date: Effective Date: Termination Date:

Expiration/Review Date:

Design Flow:

Major/Minor:

Complexity: TTWQ: Enforcement Actions within 5 years: Violations within 5 years:

Not reported Latitude: Not reported Longitude:

CIWQS \$121670110 N/A

TC5391347.2s Page 120

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
PERRIS	S107538328		DRY WASH, 10 W GOETZ RD		CDL
PERRIS	S107538583		GOETZ RD AT KAPLAN CREEK DRIVE	92570	CDL
PERRIS	1023351274	EMWD MURRIETA ROAD BOOSTER PLANT	25877 MURRIETA RD	92570	FINDS

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/13/2018 Source: EPA
Date Data Arrived at EDR: 05/30/2018 Telephone: N/A

Number of Days to Update: 23 Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/13/2018 Source: EPA
Date Data Arrived at EDR: 05/30/2018 Telephone: N/A

Number of Days to Update: 23 Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/13/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 23

Source: EPA Telephone: N/A

Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016 Date Data Arrived at EDR: 01/05/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 92

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 07/06/2018 Next Scheduled EDR Contact: 10/15/2018

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: 05/18/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 23

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 05/18/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 23

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency Telephone: (415) 495-8895

Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 07/16/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2018 Date Data Arrived at EDR: 02/27/2018 Date Made Active in Reports: 05/11/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 05/29/2018

Next Scheduled EDR Contact: 09/10/2018 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 02/13/2018 Date Data Arrived at EDR: 02/27/2018 Date Made Active in Reports: 05/11/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 05/29/2018

Next Scheduled EDR Contact: 09/10/2018

Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/19/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 73

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 06/27/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity.

These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/30/2018 Date Data Arrived at EDR: 05/02/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 51

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 07/31/2018

Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

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

Date of Government Version: 04/30/2018 Date Data Arrived at EDR: 05/02/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 51

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 07/31/2018

Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/14/2018 Date Data Arrived at EDR: 05/16/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 37

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320 Last EDR Contact: 08/10/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

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

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 34

Source: State Water Resources Control Board

Telephone: see region list Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001 Date Data Arrived at EDR: 02/28/2001 Date Made Active in Reports: 03/29/2001

Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)

Telephone: 707-570-3769 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004 Date Data Arrived at EDR: 02/26/2004 Date Made Active in Reports: 03/24/2004

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)

Telephone: 760-776-8943 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005 Date Data Arrived at EDR: 06/07/2005 Date Made Active in Reports: 06/29/2005

Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)

Telephone: 760-241-7365 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003 Date Data Arrived at EDR: 09/10/2003 Date Made Active in Reports: 10/07/2003

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)

Telephone: 530-542-5572 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 07/22/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011 Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6710 Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011 Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003 Date Data Arrived at EDR: 05/19/2003 Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa

Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005 Date Data Arrived at EDR: 02/15/2005

Date Made Active in Reports: 03/28/2005 Number of Days to Update: 41 Source: California Regional Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-4496 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources

Control Board's LUST database.

Date of Government Version: 03/01/2001 Date Data Arrived at EDR: 04/23/2001 Date Made Active in Reports: 05/21/2001

Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-637-5595 Last EDR Contact: 09/26/2011

Next Scheduled EDR Contact: 01/09/2012 Data Release Frequency: No Update Planned

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 34

Source: State Water Resources Control Board Telephone: 866-480-1028

Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003 Date Data Arrived at EDR: 04/07/2003 Date Made Active in Reports: 04/25/2003

Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)

Telephone: 707-576-2220 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004 Date Data Arrived at EDR: 10/20/2004 Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-286-0457 Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012 Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006 Date Data Arrived at EDR: 05/18/2006 Date Made Active in Reports: 06/15/2006

Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-549-3147 Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011 Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004 Date Data Arrived at EDR: 11/18/2004 Date Made Active in Reports: 01/04/2005

Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6600 Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011

Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005 Date Data Arrived at EDR: 04/05/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-3291 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005 Date Data Arrived at EDR: 05/25/2005 Date Made Active in Reports: 06/16/2005

Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch

Telephone: 619-241-6583 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004 Date Data Arrived at EDR: 09/07/2004 Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region

Telephone: 530-542-5574 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004 Date Data Arrived at EDR: 11/29/2004 Date Made Active in Reports: 01/04/2005

Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region

Telephone: 760-346-7491 Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011 Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/03/2008 Date Made Active in Reports: 04/14/2008

Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)

Telephone: 951-782-3298 Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011 Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality

from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007 Date Data Arrived at EDR: 09/11/2007 Date Made Active in Reports: 09/28/2007

Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-467-2980 Last EDR Contact: 08/08/2011

Next Scheduled EDR Contact: 11/21/2011 Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017 Date Data Arrived at EDR: 05/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 136

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/09/2018

Number of Days to Update: 26

Source: SWRCB Telephone: 916-341-5851 Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/10/2018

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 916-327-7844 Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016 Date Data Arrived at EDR: 07/12/2016 Date Made Active in Reports: 09/19/2016

Number of Days to Update: 69

Source: California Environmental Protection Agency

Telephone: 916-327-5092 Last EDR Contact: 06/21/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 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: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 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: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/30/2018 Date Data Arrived at EDR: 05/02/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 51

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 07/31/2018

Next Scheduled EDR Contact: 11/12/2018 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 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 06/22/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/25/2018 Date Data Arrived at EDR: 06/27/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 40

Source: State Water Resources Control Board

Telephone: 916-323-7905 Last EDR Contact: 06/27/2018

Next Scheduled EDR Contact: 10/08/2018
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: 03/19/2018 Date Data Arrived at EDR: 03/21/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 06/20/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000 Date Data Arrived at EDR: 04/10/2000 Date Made Active in Reports: 05/10/2000

Number of Days to Update: 30

Source: State Water Resources Control Board

Telephone: 916-227-4448 Last EDR Contact: 07/24/2018

Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 54

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.

Date of Government Version: 05/29/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 48

Source: Integrated Waste Management Board

Telephone: 916-341-6422 Last EDR Contact: 08/07/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 07/30/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258

Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 08/03/2018

Next Scheduled EDR Contact: 11/12/2018

Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018 Date Data Arrived at EDR: 03/01/2018 Date Made Active in Reports: 05/11/2018

Number of Days to Update: 71

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 05/30/2018

Next Scheduled EDR Contact: 09/10/2018

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: 04/30/2018 Date Data Arrived at EDR: 05/02/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 51

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 07/31/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 06/12/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 55

Source: Department of Toxic Substances Control

Telephone: 916-255-6504 Last EDR Contact: 07/05/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995 Date Data Arrived at EDR: 08/30/1995 Date Made Active in Reports: 09/26/1995

Number of Days to Update: 27

Source: State Water Resources Control Board

Telephone: 916-227-4364 Last EDR Contact: 01/26/2009

Next Scheduled EDR Contact: 04/27/2009 Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2018 Date Data Arrived at EDR: 03/01/2018 Date Made Active in Reports: 05/11/2018

Number of Days to Update: 71

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 05/30/2018

Next Scheduled EDR Contact: 09/10/2018 Data Release Frequency: Quarterly

CERS HAZ WASTE: CERS HAZ WASTE

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

Date of Government Version: 04/23/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 06/07/2018

Number of Days to Update: 44

Source: CalEPA Telephone: 916-323-2514 Last EDR Contact: 07/25/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994 Date Data Arrived at EDR: 07/07/2005 Date Made Active in Reports: 08/11/2005

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: N/A

Last EDR Contact: 06/03/2005 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/28/2018 Date Data Arrived at EDR: 05/25/2018 Date Made Active in Reports: 07/10/2018

Number of Days to Update: 46

Source: Department of Public Health Telephone: 707-463-4466 Last EDR Contact: 05/22/2018

Next Scheduled EDR Contact: 09/10/2018 Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990 Date Data Arrived at EDR: 01/25/1991 Date Made Active in Reports: 02/12/1991

Number of Days to Update: 18

Source: State Water Resources Control Board

Telephone: 916-341-5851 Last EDR Contact: 07/26/2001 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 04/19/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 10

Source: San Francisco County Department of Public Health

Telephone: 415-252-3896 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018

Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994 Date Data Arrived at EDR: 09/05/1995 Date Made Active in Reports: 09/29/1995

Number of Days to Update: 24

Source: California Environmental Protection Agency

Telephone: 916-341-5851 Last EDR Contact: 12/28/1998 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

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

Date of Government Version: 04/23/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 06/07/2018

Number of Days to Update: 44

Source: California Environmental Protection Agency

Telephone: 916-323-2514 Last EDR Contact: 07/25/2018

Next Scheduled EDR Contact: 11/05/2018 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: 05/31/2018 Date Data Arrived at EDR: 06/05/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 43

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 05/31/2018

Next Scheduled EDR Contact: 09/17/2018

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: 05/13/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 30

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 11/05/2018 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: 06/04/2018 Date Data Arrived at EDR: 06/06/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 41

Source: DTSC and SWRCB Telephone: 916-323-3400 Last EDR Contact: 06/06/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 73

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/27/2018

Next Scheduled EDR Contact: 07/09/2018 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: 04/06/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 06/14/2018

Number of Days to Update: 51

Source: Office of Emergency Services

Telephone: 916-845-8400 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 34

Source: State Water Quality Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 34

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (415) 495-8895 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 10/08/2018 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: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers Telephone: 202-528-4285

Last EDR Contact: 05/25/2018

Next Scheduled EDR Contact: 09/03/2018

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: 07/11/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/22/2018

Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 05/15/2018

Next Scheduled EDR Contact: 08/27/2018 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 87

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 06/27/2018

Next Scheduled EDR Contact: 10/08/2018 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: 08/03/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 08/10/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018

Number of Days to Update: 198

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 06/22/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 2

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 05/25/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 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: 05/13/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 30

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017 Date Data Arrived at EDR: 11/17/2017 Date Made Active in Reports: 12/08/2017

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 07/20/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 3

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017 Date Data Arrived at EDR: 06/09/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 126

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 07/09/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA Telephone: 202-566-1667

Last EDR Contact: 08/18/2017 Next Scheduled EDR Contact: 12/04/2017

Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016 Date Data Arrived at EDR: 09/08/2016 Date Made Active in Reports: 10/21/2016

Number of Days to Update: 43

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 07/23/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 06/07/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 06/04/2018

Next Scheduled EDR Contact: 09/17/2018

Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 07/27/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S.

Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/03/2018 Date Data Arrived at EDR: 04/05/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 85

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 07/05/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2018 Date Data Arrived at EDR: 04/16/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 07/09/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017

Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/28/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016 Date Data Arrived at EDR: 12/27/2016 Date Made Active in Reports: 02/17/2017

Number of Days to Update: 52

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 23

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 05/18/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018 Date Data Arrived at EDR: 05/30/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 30

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2018 Date Data Arrived at EDR: 05/31/2018 Date Made Active in Reports: 06/29/2018

Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 05/31/2018

Next Scheduled EDR Contact: 09/10/2018 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 49

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 05/30/2018

Next Scheduled EDR Contact: 09/10/2018 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: 05/30/2018

Next Scheduled EDR Contact: 09/10/2018 Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/08/2018 Date Data Arrived at EDR: 03/13/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 87

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 06/20/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018 Date Data Arrived at EDR: 02/23/2018 Date Made Active in Reports: 03/23/2018

Number of Days to Update: 28

Source: EPA

Telephone: (415) 947-8000 Last EDR Contact: 06/06/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018 Date Data Arrived at EDR: 03/17/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 06/06/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016 Date Data Arrived at EDR: 10/31/2017 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 73

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018 Date Data Arrived at EDR: 01/19/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 84

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 06/01/2018

Next Scheduled EDR Contact: 09/10/2018 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: 02/20/2018 Date Data Arrived at EDR: 02/21/2018 Date Made Active in Reports: 03/23/2018

Number of Days to Update: 30

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 05/23/2018

Next Scheduled EDR Contact: 09/03/2018 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: 06/25/2018 Date Data Arrived at EDR: 06/27/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information

Telephone: 916-323-3400 Last EDR Contact: 06/27/2018

Next Scheduled EDR Contact: 10/08/2018 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: 04/03/2018 Date Data Arrived at EDR: 05/07/2018 Date Made Active in Reports: 06/15/2018

Number of Days to Update: 39

Source: Livermore-Pleasanton Fire Department

Telephone: 925-454-2361 Last EDR Contact: 08/07/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA SAN FRANCISCO CO

Cupa facilities

Date of Government Version: 04/20/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 10

Source: San Francisco County Department of Environmental Health

Telephone: 415-252-3896 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: DRYCLEAN SOUTH COAST

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/16/2018 Date Data Arrived at EDR: 03/20/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 45

Source: South Coast Air Quality Management District

Telephone: 909-396-3211 Last EDR Contact: 06/11/2018

Next Scheduled EDR Contact: 09/10/2018

Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 06/25/2018 Date Data Arrived at EDR: 06/28/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 39

Source: Antelope Valley Air Quality Management District

Telephone: 661-723-8070 Last EDR Contact: 06/22/2018

Next Scheduled EDR Contact: 09/17/2018

Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 47

Source: Department of Toxic Substance Control

Telephone: 916-327-4498 Last EDR Contact: 05/30/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 47

Source: California Air Resources Board

Telephone: 916-322-2990 Last EDR Contact: 06/20/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/18/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 07/06/2018

Number of Days to Update: 73

Source: State Water Resoruces Control Board

Telephone: 916-445-9379 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/18/2018 Date Data Arrived at EDR: 04/20/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 60

Source: Department of Toxic Substances Control

Telephone: 916-255-3628 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018

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: 05/14/2018 Date Data Arrived at EDR: 05/15/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 38

Source: California Integrated Waste Management Board

Telephone: 916-341-6066 Last EDR Contact: 08/07/2018

Next Scheduled EDR Contact: 11/26/2018 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: 12/31/2016 Date Data Arrived at EDR: 07/12/2017 Date Made Active in Reports: 10/17/2017

Number of Days to Update: 97

Source: California Environmental Protection Agency

Telephone: 916-255-1136 Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/21/2018 Date Data Arrived at EDR: 05/23/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 55

Source: Department of Toxic Subsances Control

Telephone: 877-786-9427 Last EDR Contact: 05/23/2018

Next Scheduled EDR Contact: 09/03/2018 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: 05/21/2018 Date Data Arrived at EDR: 05/23/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 55

Source: Department of Toxic Substances Control

Telephone: 916-323-3400 Last EDR Contact: 05/23/2018

Next Scheduled EDR Contact: 09/03/2018 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: 04/09/2018 Date Data Arrived at EDR: 04/11/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 69

Source: Department of Toxic Substances Control

Telephone: 916-440-7145 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/22/2018 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: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 54

Source: Department of Conservation

Telephone: 916-322-1080 Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/23/2018 Date Data Arrived at EDR: 06/06/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 42

Source: Department of Public Health Telephone: 916-558-1784 Last EDR Contact: 06/06/2018 Next Scheduled EDR Contact: 09/17/2018

Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/14/2018 Date Data Arrived at EDR: 05/16/2018 Date Made Active in Reports: 07/05/2018

Number of Days to Update: 50

Source: State Water Resources Control Board

Telephone: 916-445-9379 Last EDR Contact: 08/10/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 06/04/2018 Date Data Arrived at EDR: 06/06/2018 Date Made Active in Reports: 07/19/2018

Number of Days to Update: 43

Source: Department of Pesticide Regulation

Telephone: 916-445-4038 Last EDR Contact: 06/06/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Quarterly

PROC: Certified Processors Database A listing of certified processors.

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 54

Source: Department of Conservation

Telephone: 916-323-3836 Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/18/2018 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 47

Source: State Water Resources Control Board

Telephone: 916-445-3846 Last EDR Contact: 06/14/2018

Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 34

Source: Deaprtment of Conservation

Telephone: 916-445-2408 Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 09/24/2018
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: 04/10/2018 Date Data Arrived at EDR: 04/13/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 67

Source: RWQCB, Central Valley Region

Telephone: 559-445-5577 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/22/2018

Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007 Date Data Arrived at EDR: 06/20/2007 Date Made Active in Reports: 06/29/2007

Number of Days to Update: 9

Source: State Water Resources Control Board

Telephone: 916-341-5227 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009 Date Data Arrived at EDR: 07/21/2009 Date Made Active in Reports: 08/03/2009

Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726 Last EDR Contact: 06/25/2018

Next Scheduled EDR Contact: 10/08/2018

Data Release Frequency: Varies

SAMPLING POINT: Sampling Point? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resource Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 06/04/2018 Date Data Arrived at EDR: 06/06/2018 Date Made Active in Reports: 07/13/2018

Number of Days to Update: 37

Source: State Water Resources Control Board

Telephone: 866-794-4977 Last EDR Contact: 06/06/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/23/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 06/07/2018

Number of Days to Update: 44

Source: California Environmental Protection Agency

Telephone: 916-323-2514 Last EDR Contact: 07/25/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018

Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 06/11/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 35

Source: State Water Resources Control Board

Telephone: 866-480-1028 Last EDR Contact: 12/12/2018

Next Scheduled EDR Contact: 09/24/2018

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: 04/05/2018 Date Data Arrived at EDR: 04/10/2018 Date Made Active in Reports: 06/14/2018

Number of Days to Update: 65

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/05/2018 Date Data Arrived at EDR: 04/10/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 24

Source: Alameda County Environmental Health Services

Telephone: 510-567-6700 Last EDR Contact: 07/05/2018

Next Scheduled EDR Contact: 04/24/2047 Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 03/31/2018 Date Data Arrived at EDR: 04/05/2018 Date Made Active in Reports: 06/14/2018

Number of Days to Update: 70

Source: Amador County Environmental Health

Telephone: 209-223-6439 Last EDR Contact: 06/14/2018

Next Scheduled EDR Contact: 09/17/2018 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: 07/05/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 05/07/2018 Date Data Arrived at EDR: 05/09/2018 Date Made Active in Reports: 06/14/2018

Number of Days to Update: 36

Source: Calveras County Environmental Health

Telephone: 209-754-6399 Last EDR Contact: 06/25/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List

Cupa facility list.

Date of Government Version: 05/23/2018 Date Data Arrived at EDR: 05/24/2018 Date Made Active in Reports: 07/13/2018

Number of Days to Update: 50

Source: Health & Human Services Telephone: 530-458-0396 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018 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: 05/21/2018 Date Data Arrived at EDR: 05/25/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 56

Source: Contra Costa Health Services Department

Telephone: 925-646-2286 Last EDR Contact: 07/30/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List

Cupa Facility list

Date of Government Version: 04/27/2018 Date Data Arrived at EDR: 05/02/2018 Date Made Active in Reports: 06/15/2018

Number of Days to Update: 44

Source: Del Norte County Environmental Health Division

Telephone: 707-465-0426 Last EDR Contact: 07/24/2018

Next Scheduled EDR Contact: 11/12/2018

Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List

CUPA facility list.

Date of Government Version: 03/05/2018 Date Data Arrived at EDR: 03/08/2018 Date Made Active in Reports: 04/16/2018

Number of Days to Update: 39

Source: El Dorado County Environmental Management Department

Telephone: 530-621-6623 Last EDR Contact: 07/30/2018

Next Scheduled EDR Contact: 11/12/2018 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: 03/01/2018 Date Data Arrived at EDR: 03/05/2018 Date Made Active in Reports: 03/14/2018

Number of Days to Update: 9

Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/15/2018 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: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018

Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List

CUPA facility list.

Date of Government Version: 03/05/2018 Date Data Arrived at EDR: 03/08/2018 Date Made Active in Reports: 04/30/2018

Number of Days to Update: 53

Source: Humboldt County Environmental Health

Telephone: N/A

Last EDR Contact: 05/21/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: 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: 06/14/2018

Number of Days to Update: 50

Source: San Diego Border Field Office

Telephone: 760-339-2777 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018

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: Invo County Environmental Health Services

Telephone: 760-878-0238 Last EDR Contact: 05/30/2018

Next Scheduled EDR Contact: 09/03/2018

Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 05/02/2018 Date Data Arrived at EDR: 05/07/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 72

Source: Kern County Environment Health Services Department

Telephone: 661-862-8700 Last EDR Contact: 07/20/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/12/2018 Date Data Arrived at EDR: 06/15/2018 Date Made Active in Reports: 07/13/2018

Number of Days to Update: 28

Source: Kings County Department of Public Health

Telephone: 559-584-1411 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 05/09/2018 Date Data Arrived at EDR: 05/11/2018 Date Made Active in Reports: 06/14/2018

Number of Days to Update: 34

Source: Lake County Environmental Health

Telephone: 707-263-1164 Last EDR Contact: 07/16/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: 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: Lassen County Environmental Health

Telephone: 530-251-8528 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9 Telephone: 415-972-3178 Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 04/16/2018 Date Made Active in Reports: 06/15/2018

Number of Days to Update: 60

Source: Department of Public Works

Telephone: 626-458-3517 Last EDR Contact: 07/05/2018

Next Scheduled EDR Contact: 10/22/2018 Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/16/2018 Date Data Arrived at EDR: 04/17/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 63

Source: La County Department of Public Works

Telephone: 818-458-5185 Last EDR Contact: 07/18/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2018 Date Data Arrived at EDR: 05/01/2018 Date Made Active in Reports: 05/14/2018

Number of Days to Update: 13

Source: Engineering & Construction Division

Telephone: 213-473-7869 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/29/2018 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: 04/01/2018 Date Data Arrived at EDR: 04/17/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 63

Source: Community Health Services

Telephone: 323-890-7806 Last EDR Contact: 07/20/2018

Next Scheduled EDR Contact: 10/29/2018 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: 07/11/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017 Date Data Arrived at EDR: 03/10/2017 Date Made Active in Reports: 05/03/2017

Number of Days to Update: 54

Source: City of Long Beach Fire Department

Telephone: 562-570-2563 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/04/2018 Date Data Arrived at EDR: 01/05/2018 Date Made Active in Reports: 01/18/2018

Number of Days to Update: 13

Source: City of Torrance Fire Department

Telephone: 310-618-2973 Last EDR Contact: 07/23/2018

Next Scheduled EDR Contact: 10/22/2018 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: 05/22/2018 Date Data Arrived at EDR: 05/24/2018 Date Made Active in Reports: 07/31/2018

Number of Days to Update: 68

Source: Madera County Environmental Health

Telephone: 559-675-7823 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018

Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites Currently permitted USTs in Marin County.

> Date of Government Version: 03/30/2018 Date Data Arrived at EDR: 04/06/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 28

Source: Public Works Department Waste Management

Telephone: 415-473-6647 Last EDR Contact: 07/11/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List CUPA facility list.

Date of Government Version: 05/30/2018 Date Data Arrived at EDR: 06/01/2018 Date Made Active in Reports: 07/13/2018

Number of Days to Update: 42

Source: Merced County Environmental Health

Telephone: 209-381-1094 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List CUPA Facility List

> Date of Government Version: 05/22/2018 Date Data Arrived at EDR: 05/24/2018 Date Made Active in Reports: 07/13/2018

Number of Days to Update: 50

Source: Mono County Health Department

Telephone: 760-932-5580 Last EDR Contact: 05/22/2018

Next Scheduled EDR Contact: 09/10/2018 Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/13/2018 Date Data Arrived at EDR: 06/19/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 31

Source: Monterey County Health Department

Telephone: 831-796-1297 Last EDR Contact: 07/02/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017 Date Data Arrived at EDR: 01/11/2017 Date Made Active in Reports: 03/02/2017

Number of Days to Update: 50

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 05/22/2018

Next Scheduled EDR Contact: 09/10/2018 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: 05/23/2018 Date Data Arrived at EDR: 05/31/2018 Date Made Active in Reports: 07/11/2018

Number of Days to Update: 41

Source: Napa County Department of Environmental Management

Telephone: 707-253-4269 Last EDR Contact: 05/22/2018

Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/01/2018 Date Made Active in Reports: 06/15/2018

Number of Days to Update: 45

Source: Community Development Agency

Telephone: 530-265-1467 Last EDR Contact: 07/24/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 04/02/2018 Date Data Arrived at EDR: 05/11/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 42

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 05/07/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/02/2018 Date Data Arrived at EDR: 05/11/2018 Date Made Active in Reports: 06/25/2018

Number of Days to Update: 45

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 08/03/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/02/2018 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/10/2018

Number of Days to Update: 63

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 08/06/2018

Next Scheduled EDR Contact: 11/19/2018 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: 05/31/2018 Date Data Arrived at EDR: 06/05/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 43

Source: Placer County Health and Human Services

Telephone: 530-745-2363 Last EDR Contact: 05/31/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 01/22/2018 Date Data Arrived at EDR: 01/24/2018 Date Made Active in Reports: 03/15/2018

Number of Days to Update: 50

Source: Plumas County Environmental Health

Telephone: 530-283-6355 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018

Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/05/2018 Date Data Arrived at EDR: 04/10/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 24

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 06/18/2018

Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 04/05/2018 Date Data Arrived at EDR: 04/10/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 24

Source: Department of Environmental Health

Telephone: 951-358-5055 Last EDR Contact: 06/18/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/02/2018 Date Data Arrived at EDR: 04/04/2018 Date Made Active in Reports: 06/14/2018

Number of Days to Update: 71

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 07/03/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/02/2018 Date Data Arrived at EDR: 04/04/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 76

Source: Sacramento County Environmental Management

Telephone: 916-875-8406 Last EDR Contact: 07/03/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 05/16/2018 Date Data Arrived at EDR: 05/22/2018 Date Made Active in Reports: 07/13/2018

Number of Days to Update: 52

Source: San Benito County Environmental Health

Telephone: N/A

Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018 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: 04/09/2018 Date Data Arrived at EDR: 04/11/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 69

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041 Last EDR Contact: 07/24/2018

Next Scheduled EDR Contact: 11/19/2018 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: 06/04/2018 Date Data Arrived at EDR: 06/06/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 41

Source: Hazardous Materials Management Division

Telephone: 619-338-2268 Last EDR Contact: 06/06/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018 Date Data Arrived at EDR: 04/24/2018 Date Made Active in Reports: 06/19/2018

Number of Days to Update: 56

Source: Department of Health Services

Telephone: 619-338-2209 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 04/18/2018 Date Data Arrived at EDR: 04/23/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 11

Source: Department of Environmental Health

Telephone: 858-505-6874 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018

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: 05/31/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008 Date Data Arrived at EDR: 09/19/2008 Date Made Active in Reports: 09/29/2008

Number of Days to Update: 10

Source: Department Of Public Health San Francisco County

Telephone: 415-252-3920 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information Underground storage tank sites located in San Francisco county.

Date of Government Version: 06/07/2018 Date Data Arrived at EDR: 06/12/2018 Date Made Active in Reports: 07/10/2018

Number of Days to Update: 28

Source: Department of Public Health Telephone: 415-252-3920

Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018 Date Data Arrived at EDR: 06/26/2018 Date Made Active in Reports: 07/11/2018

Number of Days to Update: 15

Source: Environmental Health Department

Telephone: N/A

Last EDR Contact: 06/14/2018

Next Scheduled EDR Contact: 10/01/2018 Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

> Date of Government Version: 05/16/2018 Date Data Arrived at EDR: 05/22/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 56

Source: San Luis Obispo County Public Health Department

Telephone: 805-781-5596 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018 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: 06/12/2018 Date Data Arrived at EDR: 06/15/2018 Date Made Active in Reports: 08/06/2018

Number of Days to Update: 52

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 06/06/2018

Next Scheduled EDR Contact: 09/24/2018 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: 03/15/2018 Date Data Arrived at EDR: 03/20/2018 Date Made Active in Reports: 05/04/2018

Number of Days to Update: 45

Source: San Mateo County Environmental Health Services Division

Telephone: 650-363-1921 Last EDR Contact: 06/06/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011 Date Data Arrived at EDR: 09/09/2011 Date Made Active in Reports: 10/07/2011

Number of Days to Update: 28

Source: Santa Barbara County Public Health Department

Telephone: 805-686-8167 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018

Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 05/16/2018 Date Data Arrived at EDR: 05/23/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 55

Source: Department of Environmental Health

Telephone: 408-918-1973 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005 Date Data Arrived at EDR: 03/30/2005 Date Made Active in Reports: 04/21/2005

Number of Days to Update: 22

Source: Santa Clara Valley Water District

Telephone: 408-265-2600 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014 Date Data Arrived at EDR: 03/05/2014 Date Made Active in Reports: 03/18/2014

Number of Days to Update: 13

Source: Department of Environmental Health

Telephone: 408-918-3417 Last EDR Contact: 05/22/2018

Next Scheduled EDR Contact: 09/10/2018 Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/16/2018 Date Data Arrived at EDR: 05/22/2018 Date Made Active in Reports: 07/19/2018

Number of Days to Update: 58

Source: City of San Jose Fire Department

Telephone: 408-535-7694 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List CUPA facility listing.

Date of Government Version: 01/21/2017 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 05/23/2017

Number of Days to Update: 90

Source: Santa Cruz County Environmental Health

Telephone: 831-464-2761 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018

Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017 Date Data Arrived at EDR: 06/19/2017 Date Made Active in Reports: 08/09/2017

Number of Days to Update: 51

Source: Shasta County Department of Resource Management

Telephone: 530-225-5789 Last EDR Contact: 05/16/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018 Date Data Arrived at EDR: 06/08/2018 Date Made Active in Reports: 07/18/2018

Number of Days to Update: 40

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 05/31/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018 Date Data Arrived at EDR: 06/12/2018 Date Made Active in Reports: 07/12/2018

Number of Days to Update: 30

Source: Solano County Department of Environmental Management

Telephone: 707-784-6770 Last EDR Contact: 05/31/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List

Cupa Facility list

Date of Government Version: 06/19/2018 Date Data Arrived at EDR: 06/26/2018 Date Made Active in Reports: 07/17/2018

Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department

Telephone: 707-565-1174 Last EDR Contact: 06/21/2018

Next Scheduled EDR Contact: 10/08/2018

Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2018 Date Data Arrived at EDR: 04/06/2018 Date Made Active in Reports: 05/09/2018

Number of Days to Update: 33

Source: Department of Health Services

Telephone: 707-565-6565 Last EDR Contact: 06/21/2018

Next Scheduled EDR Contact: 10/08/2018 Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/11/2018 Date Made Active in Reports: 06/15/2018

Number of Days to Update: 35

Source: Stanislaus County Department of Ennvironmental Protection

Telephone: 209-525-6751 Last EDR Contact: 07/16/2018

Next Scheduled EDR Contact: 10/29/2018

Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/04/2018 Date Data Arrived at EDR: 06/08/2018 Date Made Active in Reports: 07/11/2018

Number of Days to Update: 33

Source: Sutter County Department of Agriculture

Telephone: 530-822-7500 Last EDR Contact: 05/31/2018

Next Scheduled EDR Contact: 09/17/2018 Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 01/26/2018 Date Data Arrived at EDR: 02/02/2018 Date Made Active in Reports: 03/21/2018

Number of Days to Update: 47

Source: Tehama County Department of Environmental Health

Telephone: 530-527-8020 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: 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: 06/15/2018

Number of Days to Update: 51

Source: Department of Toxic Substances Control

Telephone: 760-352-0381 Last EDR Contact: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018

Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 03/19/2018 Date Data Arrived at EDR: 03/22/2018 Date Made Active in Reports: 04/17/2018

Number of Days to Update: 26

Source: Tulare County Environmental Health Services Division

Telephone: 559-624-7400 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/19/2018

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: 07/17/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/26/2018 Date Data Arrived at EDR: 04/25/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 58

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 07/23/2018

Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011 Date Data Arrived at EDR: 12/01/2011 Date Made Active in Reports: 01/19/2012

Number of Days to Update: 49

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 06/27/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/31/2008

Number of Days to Update: 37

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 08/07/2018

Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2018 Date Data Arrived at EDR: 04/25/2018 Date Made Active in Reports: 06/25/2018

Number of Days to Update: 61

Source: Ventura County Resource Management Agency

Telephone: 805-654-2813 Last EDR Contact: 07/23/2018

Next Scheduled EDR Contact: 11/05/2018 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: 04/26/2018 Date Data Arrived at EDR: 06/13/2018 Date Made Active in Reports: 07/11/2018

Number of Days to Update: 28

Source: Environmental Health Division

Telephone: 805-654-2813 Last EDR Contact: 06/13/2018

Next Scheduled EDR Contact: 09/24/2018 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: 06/20/2018 Date Data Arrived at EDR: 07/03/2018 Date Made Active in Reports: 07/12/2018

Number of Days to Update: 9

Source: Yolo County Department of Health

Telephone: 530-666-8646 Last EDR Contact: 06/27/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 05/10/2018 Date Data Arrived at EDR: 05/15/2018 Date Made Active in Reports: 06/15/2018

Number of Days to Update: 31

Source: Yuba County Environmental Health Department

Telephone: 530-749-7523 Last EDR Contact: 08/07/2018

Next Scheduled EDR Contact: 11/12/2018

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: 01/03/2018 Date Data Arrived at EDR: 02/14/2018 Date Made Active in Reports: 03/22/2018

Number of Days to Update: 36

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 08/09/2018

Next Scheduled EDR Contact: 11/26/2018

Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 07/13/2018 Date Made Active in Reports: 08/01/2018

Number of Days to Update: 19

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 07/13/2018

Next Scheduled EDR Contact: 10/22/2018 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

acility.

Date of Government Version: 04/30/2018 Date Data Arrived at EDR: 05/03/2018 Date Made Active in Reports: 06/07/2018

Number of Days to Update: 35

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 08/01/2018

Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 07/25/2017 Date Made Active in Reports: 09/25/2017

Number of Days to Update: 62

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 07/12/2018

Next Scheduled EDR Contact: 10/29/2018 Data Release Frequency: Annually

RI MANIFEST: Manifest information Hazardous waste manifest information

> Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 02/23/2018 Date Made Active in Reports: 04/09/2018

Number of Days to Update: 45

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 05/21/2018

Next Scheduled EDR Contact: 09/03/2018 Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 06/15/2018 Date Made Active in Reports: 07/09/2018

Number of Days to Update: 24

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/11/2018

Next Scheduled EDR Contact: 09/24/2018 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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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

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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APPENDIX E-1

Field Measurement Data

FIELD NOISE MEASUREMENT DATA

PROJECT MURIUESA DOOS HEN PUMP	PROJECT # 9469
SITE ID	OBSERVER(S) PEXE VITAR
SITE ADDRESS START DATE 9/11/18 END DATE 9/11/18	OBSERVER(S) PEAR VITAVI
START DATE 9/11/18 END DATE 9/11/18 START TIME END TIME	-
START THEE	
METEOROLOGICAL CONDITIONS TEMP 82 F HUMIDITY 27 % R.H. WINDSPD MPH DIR. N NE S SE S SW W NW SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG	WIND CALM LIGHT MODERATE VARIABLE STEADY GUSTY RAIN
ACOUSTIC MEASUREMENTS MEAS. INSTRUMENT CALIBRATOR CALIBRATION CHECK PRE-TEST dBA SPL	TYPE 1 2 SERIAL # 140317 06 (1 SERIAL # 480151 WINDSCRN DES
SETTINGS A-WTD SLOW FAST FRONTAL RANDOM	ANSI OTHER:
REC. # BEGIN END Leg Lmax Lmin L90 T-1/1-2 10:55 11:10 65-1 81:6 53-1	L50 L10 OTHER (SPECIFY METRIC
COMMENTS PERDING TATES ON MUNICIA RUBB, AT FENCE BOOZE: LIGHT TMARKE PRIMAR MISIE STANIN AND GAS PIPE ON SITE	SOUNCE IS DUMP MODERS IN
SOURCE INFO AND TRAFFIC COUNTS PRIMARY NOISE SOURCE ROADWAY TYPE: ASPEN TO TRAFFIC AIRCRAFT RAIL DIST. TO RE	ANDUSTRIAL OTHER: PUMP NOIS E
TRAFFIC COUNT DURATION: MIN SPEED	MIN SPEED
DIRECTION NB/EB SB/WB NB/EB SB/WB IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE MOTRCLS SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE	SDWY 2
POSTED SPEED LIMIT SIGNS SAY: 45 MAY	
OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. B DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST IN OTHER:	
DESCRIPTION / SKETCH TERRAIN HARD SOFT MIXED FLAT OTHER: PHOTOS 2122; 2123; 2124; 2125; 2126; 212 OTHER COMMENTS / SKETCH	7;2128,2129;

FIELD NOISE MEASUREMENT DATA

PROJECT MUNDICHA BOUS THA DUMP	PROJECT # 9469
SITE ID	DG+G 16/101
SITE ADDRESS	OBSERVER(S) PETE VITAM
START DATE 9/11/16 END DATE 9/11/18	-
START TIME END TIME	
METEOROLOGICAL CONDITIONS	
TEMP 82 F HUMIDITY 27 % R.H.	WIND CALM LIGHT MODERATE
WINDSPD MPH DIR. N NE S SE S SW W NW	VARIABLE STEADY GUSTY
SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG	RAIN
	. No.
MEAS. INSTRUMENT PICCOCO SCM - P3	TYPE 1 (2) SERIAL # 140 3/7 004
	TYPE 1 (2) SERIAL # 14031/W11
CALIBRATION CHECK PRE-TEST dBA SPL	POST-TEST dBA SPL WINDSCRN VES
SETTINGS A-WTD (SLOW) FAST FRONTAL RANDOM	ANSI OTHER:
	···
REC. # BEGIN END Leg Lmax Lmin L90	L50 L10 OTHER (SPECIFY METRIC
572/3-4 11:17 11:32 65.8 83.2 49.9	
COMMENTS TO SECURE ASSOCIATION OF THE PROPERTY	It are story winding In
PERDING TARES ON MUNNERA PO, IN FRUIT	TRAFFIC ON MUMIETA (D)
The state of the s	MAN ON MODELLE !!
ON ETHANACICU.	
SOURCE INFO AND TRAFFIC COUNTS PRIMARY NOISE SOURCE ROADWAY TYPE: TRAFFIC AIRCRAFT RAIL DIST. TO	INDUSTRIAL OTHER:
TRAFFIC COUNT DURATION: MIN SPEED	MIN SPEED
DIRECTION NB/EB SB/WB NB/EB SB/WB	NB/EB SB/WB NB/EB SB/WB
AUTOS IF COUNTING	-
AUTOS BOTH NED TRKS DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)
AS ONE, CHECK HERE	
	9
MOTRCLS SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE	
POSTED SPEED LIMIT SIGNS SAY: 4 5 MPH	
OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST.	BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST	RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER:	
DESCRIPTION / SKETCH	
TERRAIN HARD SOFT MIXED FLAT OTHER:	. 0131 . 2137
PHOTOS 2130: 2131; 2132; 2133; 2134; 2133	12136,2131
OTHER COMMENTS / SKETCH	

APPENDIX E-2

RCNM Outputs

Report date 9/13/2018 Case Descr Demolition - Option A

---- Receptor #1 ----

Race	lines	(ARA)	١
Dase	iiiies i	(UDA)	,

Descriptior Land Use Daytime Evening Night
Residence Residential 65 60 55

			Equipme	ent		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40)	77.7	1000	0
Concrete Saw	No	20)	89.6	1000	0
Crane	No	16	;	80.6	1000	0
Excavator	No	40)	80.7	1000	0
Generator	No	50)	80.6	1000	0
Generator	No	50)	80.6	1000	0
Front End Loader	No	40)	79.1	1000	0
Front End Loader	No	40)	79.1	1000	0
Backhoe	No	40)	77.6	1000	0

				Results			
	Calculated	l (dBA)			Noise Lim	its (dBA)	
				Day		Evening	
Equipment	*Lmax	Leq		Lmax	Leq	Lmax	Leq
Compressor (air)	51.6	5	47.7	N/A	N/A	N/A	N/A
Concrete Saw	63.6	5	56.6	N/A	N/A	N/A	N/A
Crane	54.5	5	46.6	N/A	N/A	N/A	N/A
Excavator	54.7	7	50.7	N/A	N/A	N/A	N/A
Generator	54.6	5	51.6	N/A	N/A	N/A	N/A
Generator	54.6	5	51.6	N/A	N/A	N/A	N/A
Front End Loader	53.1	L	49.1	N/A	N/A	N/A	N/A
Front End Loader	53.1	L	49.1	N/A	N/A	N/A	N/A
Backhoe	51.5	5	47.6	N/A	N/A	N/A	N/A
Total	63.6	5	60.7	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report date 9/13/2018 Case Descr Demolition - Option B

---- Receptor #1 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night
Residence Residential 65 60 55

Equipment

			=qa.pc				
			Spec	Actual		Receptor	Estimated
	Impact		Lmax	Lmax		Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)
Compressor (air)	No	40)		77.7	1000	0
Concrete Saw	No	20)		89.6	1000	0
Crane	No	16	,		80.6	1000	0
Excavator	No	40)		80.7	1000	0
Generator	No	50)		80.6	1000	0
Generator	No	50)		80.6	1000	0
Front End Loader	No	40)		79.1	1000	0
Front End Loader	No	40)		79.1	1000	0
Backhoe	No	40)		77.6	1000	0

				Results			
	Calculated	l (dBA)			Noise Lim	nits (dBA)	
				Day		Evening	
Equipment	*Lmax	Leq		Lmax	Leq	Lmax	Leq
Compressor (air)	51.6	5	47.7	N/A	N/A	N/A	N/A
Concrete Saw	63.6	5	56.6	N/A	N/A	N/A	N/A
Crane	54.5	5	46.6	N/A	N/A	N/A	N/A
Excavator	54.7	7	50.7	N/A	N/A	N/A	N/A
Generator	54.6	5	51.6	N/A	N/A	N/A	N/A
Generator	54.6	5	51.6	N/A	N/A	N/A	N/A
Front End Loader	53.1	L	49.1	N/A	N/A	N/A	N/A
Front End Loader	53.1	L	49.1	N/A	N/A	N/A	N/A
Backhoe	51.5	5	47.6	N/A	N/A	N/A	N/A
Total	63.6	5	60.7	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report dati 9/13/2018

Case Descr Survey_Staking_Flagging_Option A

	Rece	ptor	#1	
--	------	------	----	--

Race	lines	(dBA)
Dase	111162	lubAl

Descriptior Land Use Daytime Evening Night
Residence Residential 65 60 55

Equipment

		Spec	Actual	Receptor	Estimated
	Impact	Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%) (dBA)	(dBA)	(feet)	(dBA)
Grader	No	40	85	4000	0
Dozer	No	40	81.7	4000	0
Backhoe	No	40	77.6	4000	0

		Calculated	(dBA)	Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lma	x Leq	Lmax	Leq
Grader		46.9		43 N/A	N/A	N/A	N/A
Dozer		43.6	,)	39.6 N/A	N/A	N/A	N/A
Backhoe		39.5	1	35.5 N/A	N/A	N/A	N/A
	Total	46.9	1	45.1 N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report date 9/13/2018 Case Descr Survey_Staking_Flagging_Option B

	Rece	ptor	#1	
--	------	------	----	--

Baselines (dBA)
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Descriptior Land Use Daytime Evening Night Residence † Residential 60 65 55

Equipment

		Spec	Actual	Receptor	Estimated
	Impact	Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%) (dBA)	(dBA)	(feet)	(dBA)
Grader	No	40	85	1000	0
Dozer	No	40	81.7	1000	0
Backhoe	No	40	77.6	1000	0

		Calculated (dBA)			1	Noise Limit	Limits (dBA)	
				Day	y		Evening	
Equipment	t	*Lmax	Leq	Lma	ax L	-eq	Lmax	Leq
Grader		59	9	55 N/A	۱ ۴	N/A	N/A	N/A
Dozer		55.6	5	51.7 N/A	1 A	N/A	N/A	N/A
Backhoe		51.5	5	47.6 N/A	1 A	N/A	N/A	N/A
	Total	59	9	57.2 N/A	1 4	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report dati 9/13/2018 Case Descr Grading - Option A

	Rece	ptor	#1	
--	------	------	----	--

_		/ I \	
Race	linaci	(dBA)	
Dasc	111163	lubai	

Descriptior Land Use Daytime Evening Night

Residence Residential 65 60 55

Equipment

			Spec	Actua	I	Receptor	Estimated
	Impact		Lmax	Lmax		Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)
Grader	No	40)	85		4000	0
Dozer	No	40)		81.7	4000	0
Dozer	No	40)		81.7	4000	0

	Calculated (dE	BA)	Noise L	imits (dBA)		
		Day		Evening		Night
Equipment	*Lmax Le	q Lmax	Leq	Lmax	Leq	Lmax
Grader	46.9	43 N/A	N/A	N/A	N/A	N/A
Dozer	43.6	39.6 N/A	N/A	N/A	N/A	N/A
Dozer	43.6	39.6 N/A	N/A	N/A	N/A	N/A
Total	46.9	45.8 N/A	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Estimated Shielding (dBA)

0

0

0

Report dati 9/13/2018 Case Descr Grading - Option B

	Baselines (ABV)		Rec	ept	or #1 -				
Descriptior Land Use Residence † Residential	Daytime 65	Evening	60	Night	55					
				Equipm	ent					
				Spec		Actua	ıl	Recept	or	E
	Impact			Lmax		Lmax		Distanc	ce	S
Description	Device	Usage(%	5)	(dBA)		(dBA)		(feet)		(
Grader	No		40		85			1	000	
Dozer	No		40				81.7	1	000	
Dozer	No		40				81.7	1	000	
				Results						
	Calculated	(dBA)				Noise	Limit	s (dBA)		
				_						

	Calculated (dBA	A)	Noise Limits (dBA)			
		Day		Evening		Night
Equipment	*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax
Grader	59	55 N/A	N/A	N/A	N/A	N/A
Dozer	55.6	51.7 N/A	N/A	N/A	N/A	N/A
Dozer	55.6	51.7 N/A	N/A	N/A	N/A	N/A
Total	59	57.9 N/A	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report date 9/13/2018 Case Descri Building Construction - Option A

---- Receptor #1 ----

Baselines (dBA)	Base	lines ((dBA)	
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Descriptior Land Use Daytime **Evening** Night Residence | Residential 65 60 55

			Equipmen	t		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40)	77.7	4000	0
Concrete Mixer Truck	No	40)	78.8	4000	0
Concrete Saw	No	20)	89.6	4000	0
Crane	No	16	j	80.6	4000	0
Generator	No	50)	80.6	4000	0
Man Lift	No	20)	74.7	4000	0
Generator	No	50)	80.6	4000	0
Generator	No	50)	80.6	4000	0
Front End Loader	No	40)	79.1	4000	0
Front End Loader	No	40)	79.1	4000	0
Backhoe	No	40)	77.6	4000	0
Welder / Torch	No	40)	74	4000	0

Calculated (dBA) Noise Limits (dBA) Day **Evening** Night Equipment *Lmax Leq Lmax Leq Lmax Lmax Leq N/A Compressor (air) 39.6 35.6 N/A N/A N/A N/A **Concrete Mixer Truck** 40.7 36.8 N/A N/A N/A N/A N/A Concrete Saw 51.5 44.5 N/A N/A N/A N/A N/A Crane 42.5 34.5 N/A N/A N/A N/A N/A Generator 42.6 39.6 N/A N/A N/A N/A N/A Man Lift 36.6 29.6 N/A N/A N/A N/A N/A Generator 42.6 39.6 N/A N/A N/A N/A N/A 42.6 Generator 39.6 N/A N/A N/A N/A N/A Front End Loader 41 37.1 N/A N/A N/A N/A N/A Front End Loader 41 37.1 N/A N/A N/A N/A N/A Backhoe N/A 39.5 35.5 N/A N/A N/A N/A Welder / Torch

Results

32 N/A

49.2 N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

35.9

51.5

Total

^{*}Calculated Lmax is the Loudest value.

Report date 9/13/2018 Case Descr Building Construction - Option B

---- Receptor #1 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night
Residence Residential 65 60 55

			Equipment	t		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40)	77.7	1000	0
Concrete Mixer Truck	No	40)	78.8	1000	0
Concrete Saw	No	20)	89.6	1000	0
Crane	No	16	;	80.6	1000	0
Generator	No	50)	80.6	1000	0
Man Lift	No	20)	74.7	1000	0
Generator	No	50)	80.6	1000	0
Generator	No	50)	80.6	1000	0
Front End Loader	No	40)	79.1	1000	0
Front End Loader	No	40)	79.1	1000	0
Backhoe	No	40)	77.6	1000	0
Welder / Torch	No	40)	74	1000	0

				Results				
	Calculated	l (dBA)			Noise Lim	its (dBA)		
				Day		Evening		Night
Equipment	*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax
Compressor (air)	51.6	5	47.7	N/A	N/A	N/A	N/A	N/A
Concrete Mixer Truck	52.8	3	48.8	N/A	N/A	N/A	N/A	N/A
Concrete Saw	63.6	5	56.6	N/A	N/A	N/A	N/A	N/A
Crane	54.5	5	46.6	N/A	N/A	N/A	N/A	N/A
Generator	54.6	5	51.6	N/A	N/A	N/A	N/A	N/A
Man Lift	48.7	7	41.7	N/A	N/A	N/A	N/A	N/A
Generator	54.6	5	51.6	N/A	N/A	N/A	N/A	N/A
Generator	54.6	5	51.6	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1	Ĺ	49.1	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1	L	49.1	N/A	N/A	N/A	N/A	N/A
Backhoe	51.5	5	47.6	N/A	N/A	N/A	N/A	N/A
Welder / Torch	48	3	44	N/A	N/A	N/A	N/A	N/A
Total	63.6	5	61.2	N/A	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report date 9/13/2018

Case Descr Equipment and Pipe Installation - Option A

	Rece	ptor	#1	
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Baselines (dBA)	Base	lines ((dBA)
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Descriptior Land Use Daytime Evening Night

Residence Residential 65 60 55

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			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Concrete Saw	No	20)	89.6	4000	0
Crane	No	16	j	80.6	4000	0
Generator	No	50)	80.6	4000	0
Man Lift	No	20)	74.7	4000	0
Generator	No	50)	80.6	4000	0
Front End Loader	No	40)	79.1	4000	0
Front End Loader	No	40)	79.1	4000	0
Backhoe	No	40)	77.6	4000	0
Welder / Torch	No	40)	74	4000	0

	Calculated (d	dBA)	Noise L	imits (dBA)		
		Day		Evening		Night
Equipment	*Lmax L	.eq Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw	51.5	44.5 N/A	N/A	N/A	N/A	N/A
Crane	42.5	34.5 N/A	N/A	N/A	N/A	N/A
Generator	42.6	39.6 N/A	N/A	N/A	N/A	N/A
Man Lift	36.6	29.6 N/A	N/A	N/A	N/A	N/A
Generator	42.6	39.6 N/A	N/A	N/A	N/A	N/A
Front End Loader	41	37.1 N/A	N/A	N/A	N/A	N/A
Front End Loader	41	37.1 N/A	N/A	N/A	N/A	N/A
Backhoe	39.5	35.5 N/A	N/A	N/A	N/A	N/A
Welder / Torch	35.9	32 N/A	N/A	N/A	N/A	N/A
Total	51.5	48.2 N/A	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report date 9/13/2018

Case Descri Equipment and Pipe Installation - Option B

---- Receptor #1 ----

Baselines (dBA)

Descriptior Land Use Daytime Evening Night

Residence Residential 65 60 55

			Equipme	ent		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Concrete Saw	No	20)	89.6	1000	0
Crane	No	16	j	80.6	1000	0
Generator	No	50)	80.6	1000	0
Man Lift	No	20)	74.7	1000	0
Generator	No	50)	80.6	1000	0
Front End Loader	No	40)	79.1	1000	0
Front End Loader	No	40)	79.1	1000	0
Backhoe	No	40)	77.6	1000	0
Welder / Torch	No	40)	74	1000	0

				Results				
	Calculated	(dBA)			Noise Lim	its (dBA)		
				Day		Evening		Night
Equipment	*Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax
Concrete Saw	63.6	•	56.6	N/A	N/A	N/A	N/A	N/A
Crane	54.5		46.6	N/A	N/A	N/A	N/A	N/A
Generator	54.6	•	51.6	N/A	N/A	N/A	N/A	N/A
Man Lift	48.7		41.7	N/A	N/A	N/A	N/A	N/A
Generator	54.6	•	51.6	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1		49.1	N/A	N/A	N/A	N/A	N/A
Front End Loader	53.1		49.1	N/A	N/A	N/A	N/A	N/A
Backhoe	51.5		47.6	N/A	N/A	N/A	N/A	N/A
Welder / Torch	48	,	44	N/A	N/A	N/A	N/A	N/A
Total	63.6	;	60.2	N/A	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report dati 9/13/2018 Case Descr Paving_Option A

	Rece	ptor	#1	
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Racol	IDAC	(dBA)
Dasei	111153	lubai

Descriptior Land Use Daytime Evening Night
Residence Residential 65 60 55

Equipment

			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Paver	No	50)	77.2	4000	0
Pumps	No	50)	80.9	4000	0
Concrete Mixer Truck	No	40)	78.8	4000	0
Roller	No	20)	80	4000	0

	Calculated (dBA	Noise Li	imits (dBA)			
		Day		Evening		Night
Equipment	*Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax
Paver	39.2	36.1 N/A	N/A	N/A	N/A	N/A
Pumps	42.9	39.9 N/A	N/A	N/A	N/A	N/A
Concrete Mixer Truck	40.7	36.8 N/A	N/A	N/A	N/A	N/A
Roller	41.9	34.9 N/A	N/A	N/A	N/A	N/A
Total	42.9	43.4 N/A	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.

Report dati 9/13/2018 Case Descr Paving_Option B

	Rece	ptor	#1	
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שמכת	INAC	(dBA)
Dasei	IIIIes I	lubai

Descriptior Land Use Daytime Evening Night
Residence Residential 65 60 55

Equipment

			Equipment				
			Spec	Actual	Receptor	Estimated	
	Impact		Lmax	Lmax	Distance	Shielding	
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	
Paver	No	50)	77.2	1000	0	
Pumps	No	50)	80.9	1000	0	
Concrete Mixer Truck	No	40)	78.8	1000	0	
Roller	No	20)	80	1000	0	

	Calculated (dBA)			Noise Li	mits (dBA)		
			Day		Evening		Night
Equipment	*Lmax L	eq	Lmax	Leq	Lmax	Leq	Lmax
Paver	51.2	48.2	N/A	N/A	N/A	N/A	N/A
Pumps	54.9	51.9	N/A	N/A	N/A	N/A	N/A
Concrete Mixer Truck	52.8	48.8	N/A	N/A	N/A	N/A	N/A
Roller	54	47	N/A	N/A	N/A	N/A	N/A
Total	54.9	55.4	N/A	N/A	N/A	N/A	N/A

^{*}Calculated Lmax is the Loudest value.