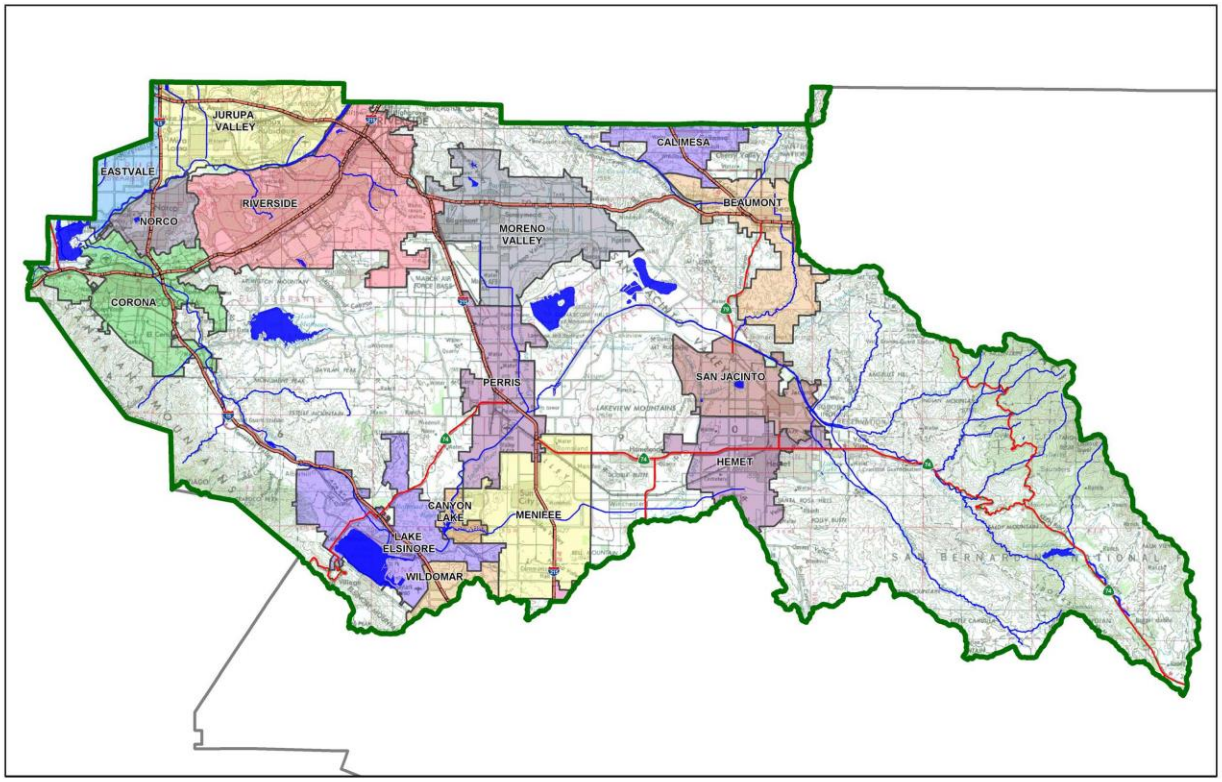
Project Specific Water Quality Management Plan

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

Project Title: First Day Street Logistics

Development No: PEN22-0144

Design Review/Case No: LWQ22-0030



☒ **Preliminary**
☐ **Final**

Original Date Prepared: June 2022

Revision Date(s): September 2022; December 2022; February 2023

Prepared for Compliance with
Regional Board Order No. **R8-2010-0033**

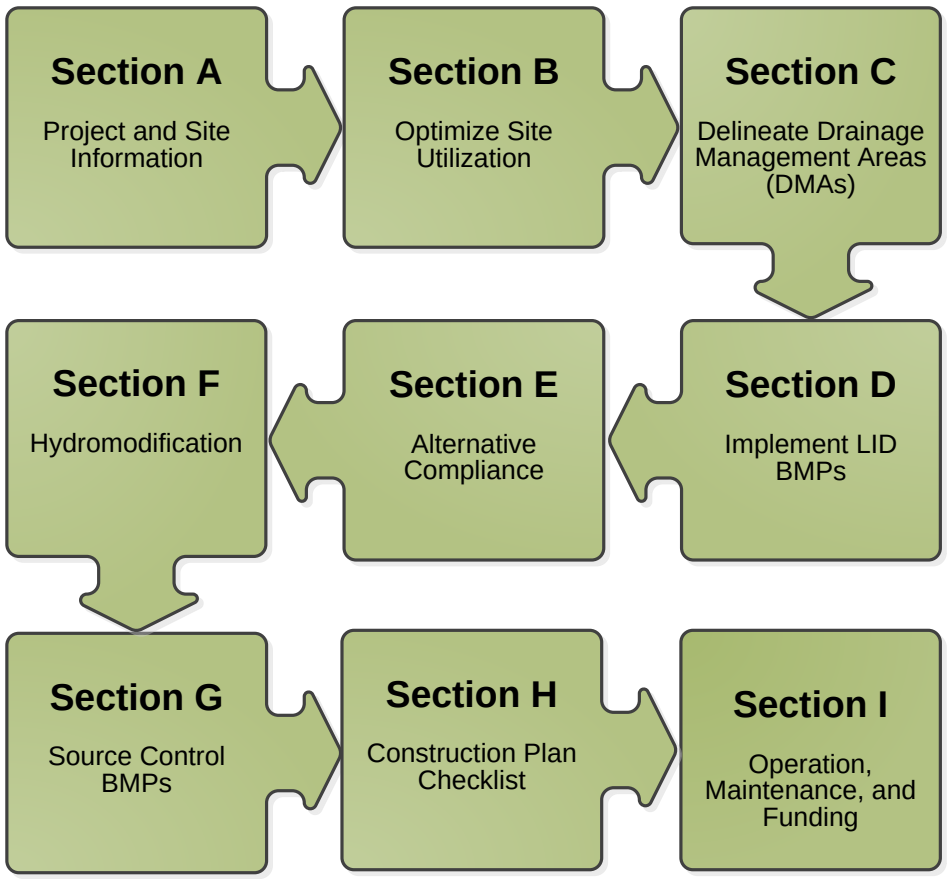
Contact Information:

Prepared for:
First Industrial Realty Trust
898 N. Pacific Highway, Suite 175
El Segundo, CA 90245
(909) 230-3892

Prepared by:
Albert A. Webb Associates
3788 McCray St
Riverside, CA 92506
(951) 686 – 1070

A Brief Introduction

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



OWNER'S CERTIFICATION

This Project-Specific Water Quality Management Plan (WQMP) has been prepared for First Industrial Realty Trust by Albert A. Webb Associates for the First Day Street Logistics project.

This WQMP is intended to comply with the requirements of City of Moreno Valley for Ordinance No. 827 which includes the requirement for the preparation and implementation of a Project-Specific WQMP.

The undersigned, while owning the property/project described in the preceding paragraph, shall be responsible for the implementation and funding of this WQMP and will ensure that this WQMP is amended as appropriate to reflect up-to-date conditions on the site. In addition, the property owner accepts responsibility for interim operation and maintenance of Stormwater BMPs until such time as this responsibility is formally transferred to a subsequent owner. This WQMP will be reviewed with the facility operator, facility supervisors, employees, tenants, maintenance and service contractors, or any other party (or parties) having responsibility for implementing portions of this WQMP. At least one copy of this WQMP will be maintained at the project site or project office in perpetuity. The undersigned is authorized to certify and to approve implementation of this WQMP. The undersigned is aware that implementation of this WQMP is enforceable under City of Moreno Valley Water Quality Ordinance (Municipal Code Chapter 8.10).

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

Owner's Signature

12-8-22
Date

Paul Loubet
Owner's Printed Name

Entitlement Officer
Owner's Title/Position

PREPARER'S CERTIFICATION

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

Preparer's Signature

12/6/2022
Date

Sarah Kowalski, P.E.
Preparer's Printed Name

Senior Engineer
Preparer's Title/Position

Preparer's Licensure:

CALIFORNIA ACKNOWLEDGMENT CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Riverside }

On December 8, 2022 before me, Anahi Zendejas, Public Notary,
Date *Here Insert Name and Title of the Officer*

personally appeared Raul Antoine
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

ANAHI ZENDEJAS
Notary Public - California
Riverside County
Commission # 2419833
My Comm. Expires Oct 8, 2026

Place Notary Seal and/or Stamp Above

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature A Zendejas
Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document
Title or Type of Document: Owner's Certification
Document Date: _____ Number of Pages: 1
Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

Table of Contents

List of Tables

List of Appendices

Section A: Project and Site Information

PROJECT INFORMATION	
Type of Project:	*Commercial/Industrial*
Planning Area:	*n/a*
Community Name:	*n/a*
Development Name:	*First Day Street Logistics*
PROJECT LOCATION	
Latitude & Longitude (DMS): *N33° 54' 51" W117° 16' 40"*	
Project Watershed and Sub-Watershed: *Santa Ana River Watershed*	
APN(s): *297-130-036*	
Map Book and Page No.: *Map Book 6, Page 13*	
PROJECT CHARACTERISTICS	
Proposed or Potential Land Use(s)	*Commercial/Industrial*
Proposed or Potential SIC Code(s)	*1541 & 4225 (see left)*
SIC Code 1541 (General Contractors – Industrial Buildings and Warehouses) and SIC Code 4225 (General Warehousing and Storage)	
Area of Project Footprint (SF)	*349,024*
Total Area of proposed Impervious Surfaces within the Project Limits (SF)/or Replacement	*313,422*
Does the project consist of offsite road improvements?	☐ Y ☒ N
Does the project propose to construct unpaved roads?	☐ Y ☒ N
Is the project part of a larger common plan of development (phased project)?	☐ Y ☒ N
EXISTING SITE CHARACTERISTICS	
Total area of existing Impervious Surfaces within the project limits (SF)	*300,750*
Is the project located within any MSHCP Criteria Cell?	☐ Y ☒ N
If so, identify the Cell number:	*n/a*
Are there any natural hydrologic features on the project site?	☐ Y ☒ N
Is a Geotechnical Report attached?	☒ Y ☐ N
If no Geotech. Report, list the NRCS soils type(s) present on the site (A, B, C and/or D)	*C*
What is the Water Quality Design Storm Depth for the project?	*0.616 in*

Project Description

The project is proposing to remove the existing building and replace it with a new warehouse facility (approximately 162,000 square feet) on approximately 8.0 acres of an existing fully-developed, light industrial site. Existing elevations across the site vary from 1554 in the northwest to 1548 in the south (NAVD88 datum). The site currently slopes down at approximately 1.1% grade to the south. The existing drainage pattern for the site and the general area is characterized by earthen channels that convey on-site and off-site sheet flows towards the existing catch basin at the southern boundary of the project site.

The project site is subject to offsite flows from adjacent developed, industrial properties to the north and east. Off-site flows are proposed to be intercepted by v-ditches and channels along the perimeter of the site, with inlets proposed at existing low spots. These flows will be directed towards and underground

detention tank that outlets to the existing storm drain line to the south. This storm drain line is adequately sized to convey the tributary flows. However, there is an elevation gap between the proposed and existing storm drain systems, so a lift station is proposed to outlet the flows.

On-site flows (DMA-A) generated by the proposed project will be collected and conveyed using a combination of surface flows, ribbon gutters, inlets, and subsurface storm drains to convey flows to the proposed underground storage sized for the VBMP. From there, the required treatment volume will be pumped to a biotreatment device. This treatment device, BioClean's Modular Wetlands, will treat low flows and allow higher storm events to bypass into the storm drain system. These treated or bypassed flows will outlet to the underground detention tank, to the lift station, and ultimately to the existing southerly storm drain line. Secondary overflow is provided by existing 6' wide openings through curb and retaining wall proposed per March Commerce Center Precise Grade, PA 05-0042 by Thienes Engineering, Inc.

Underground storage for water quality flows is upstream of the underground storage for larger storms. If necessary, a bleeder pipe can be included in final engineering to provide outlet from the water quality storage to the larger storm storage, in case of pump failure. If the pumps for the larger storm storage fails, it would simply not accept any further flows and would surface flow onsite towards the 6' wide openings in the curb along the southern boundary.

Proposed flows will follow existing flow paths established per Storm Drain, PA 05-0042 by Gabel, Cook and Associates, which outlet into an open area south of the project site and north of the I-215 freeway. Since the pre-condition and post-condition are both fully developed, light industrial sites, there will be no increase in flows or intensity from historic storm events. Therefore, HCOC is considered mitigated.

Since the proposed improvements are mainly a truck court area, not a commercial area, it is not anticipated to experience much trash. However, the proposed biotreatment device (Bioclean's Modular Wetlands) is on the list of accepted full trash capture devices, per California Waterboards.

A.1 Maps and Site Plans

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

- Drainage Management Areas
- Proposed Structural BMPs
- Drainage Path
- Drainage Infrastructure, Inlets, Overflows
- Source Control BMPs
- Buildings, Roof Lines, Downspouts
- Impervious Surfaces
- Standard Labeling

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

A.2 Identify Receiving Waters

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

Table A.1 Identification of Receiving Waters

Receiving Waters	EPA Approved 303(d) List Impairments	Designated Beneficial Uses	Proximity to RARE Beneficial Use
Tequesquite Arroyo (Sycamore Creek)	*n/a*	*GWR, REC1, REC2, WARM, WILD, **RARE**, SPWN*	*0.5 miles*
Santa Ana River Reach 3	*Copper, Indicator Bacteria, Lead*	*AGR, GWR, REC1, REC2, WARM, WILD, **RARE**, SPWN*	*8.4 miles*
Prado Basin Management Zone	*pH*	*REC1, REC2, WARM, WILD, **RARE***	*22 miles*
Santa Ana River Reach 2	*n/a*	*AGR, GWR, REC1, REC2, WARM, WILD, **RARE**, SPWN*	*26 miles*
Santa Ana River Reach 1	*n/a*	*REC1, REC2 Intermittent: WARM, WILD*	*Not designated as RARE*
Tidal Prism of Santa Ana River (to within 1,000' of Victoria Street) and Newport Slough	*Indicator Bacteria*	*REC1, REC2, COMM, WILD, **RARE**, MAR, EST*	*53 miles*

A.3 Additional Permits/Approvals required for the Project:

Table A.2 Other Applicable Permits

Agency	Permit Required	
State Department of Fish and Game, 1602 Streambed Alteration Agreement	☐ Y	☒ N
State Water Resources Control Board, Clean Water Act (CWA) Section 401 Water Quality Cert.	☐ Y	☒ N
US Army Corps of Engineers, CWA Section 404 Permit	☐ Y	☒ N
US Fish and Wildlife, Endangered Species Act Section 7 Biological Opinion	☐ Y	☒ N
Statewide Construction General Permit Coverage	☒ Y	☐ N
Statewide Industrial General Permit Coverage	☒ Y	☐ N
Western Riverside MSHCP Consistency Approval (e.g., JPR, DBESP)	☐ Y	☒ N
Other *(please list in the space below as required)* *City of Moreno Valley Grading Permit* *City of Moreno Valley Building Permit*	☒ Y	☐ N

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

Section B: Optimize Site Utilization (LID Principles)

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

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

Site Optimization

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

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

Yes. The existing site drainage pattern directs on-site and tributary off-site flows to a collection point along the southern edge of the project. The proposed drainage pattern continues to direct on-site and tributary off-site flows to that storm drain system.

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

No. The current project site is a fully-developed, light industrial site and has little or no vegetation. No existing vegetation is proposed to be protected.

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

No. The entire site is underlain with hydrologic soil group 'C' as determined by the NRCS (National Resources Conservation Service). This type of soil has poor infiltration capacity, which is supported by the project specific infiltration testing included in Appendix 3. As such, the existing poor infiltration capacity has not been adversely impacted by the proposed development.

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

Yes. Impervious areas were minimized as much as possible for the nature of this industrial development. Landscaped areas are added where feasible along concrete walkways, along the building, and within parking areas and drive aisles in order to reduce the total impervious areas. The minimum landscaping pervious cover was achieved per code.

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

Yes. However, based on the nature of the industrial development, not all runoff will be able to be directed towards a pervious area. Pervious landscaped areas are proposed around the proposed building, along concrete walkways, and within parking areas and drive aisles. Surface flows that are not intercepted by these landscaped areas will be captured by drop inlets and treated in the proposed water quality treatment device, BioClean's Modular Wetlands (MWS).

Section C: Delineate Drainage Management Areas (DMAs)

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

Table C.1 DMA Classifications

DMA Name or ID	Surface Type(s)[1]	Area (Sq. Ft.)	DMA Type
L-A	*Landscape*	*35,602*	*D – Biotreatment*
R-A	*Roof*	*161,935*	*D – Biotreatment*
H-A	*Hardscape*	*151,487*	*D – Biotreatment*

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

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

DMA Name or ID	Area (Sq. Ft.)	Stabilization Type	Irrigation Type (if any)

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

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

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

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

DMA					Receiving Self-Retaining DMA		
DMA Name/ ID	Area (square feet)	Post-project surface type	Runoff factor	Product		Area (square feet)	Ratio
	[A]		[B]	[C] = [A] x [B]	DMA name /ID	[D]	[C]/[D]

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

DMA Name or ID	BMP Name or ID
DMA-A *(L-A, R-A, and H-A)*	*BMP-A (Biotreatment Device)* *One (1) 8'x12' Modular Wetlands (MWS) Linear*

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

Section D: Implement LID BMPs

D.1 Infiltration Applicability

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

If yes has been checked, Infiltration BMPs shall not be used for the site. If no, continue working through this section to implement your LID BMPs. It is recommended that you contact your Co-Permittee to verify whether or not your project discharges to an approved downstream 'Highest and Best Use' feature.

Geotechnical Report

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

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

Infiltration Feasibility

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

Table D.1 Infiltration Feasibility

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

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

D.2 Harvest and Use Assessment

Please check what applies*:*

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

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

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

If any of the above boxes have been checked, Harvest and Use BMPs need not be assessed for the site. If neither of the above criteria applies, follow the steps below to assess the feasibility of irrigation use, toilet use and other non-potable uses (e.g., industrial use).

Irrigation Use Feasibility

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

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

Total Area of Irrigated Landscape: *0.7 AC*

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

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

Total Area of Impervious Surfaces: 7.2 AC

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

Enter your EIATIA factor: 0.79

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

Minimum required irrigated area: 5.7 AC

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

Minimum required irrigated area (Step 4)	Available Irrigated Landscape (Step 1)
5.7 AC	*0.7 AC*

Toilet Use Feasibility

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

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

Projected Number of Daily Toilet Users: 900 Users

Project Type: Warehouse/Light Industrial

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

Total Area of Impervious Surfaces: 7.2 AC

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2-1 in Chapter 2 to determine the minimum number or toilet users per tributary impervious acre (TUTIA).

Enter your TUTIA factor: 172

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

Minimum number of toilet users: 1,237 Users

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

Minimum required Toilet Users (Step 4)	**Projected number of toilet users (Step 1)**
1,237 Users	*900 Users*

Other Non-Potable Use Feasibility

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

n/a

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

Average Daily Demand: n/a

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for the identified non-potable use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as

a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

Total Area of Impervious Surfaces: n/a

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

Enter the factor from Table 2-3: n/a

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

Minimum required use: n/a

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

Minimum required non-potable use (Step 4)	**Projected average daily use (Step 1)**
n/a	*n/a*

If Irrigation, Toilet and Other Use feasibility anticipated demands are less than the applicable minimum values, Harvest and Use BMPs are not required and you should proceed to utilize LID Bioretention and Biotreatment, unless a site-specific analysis has been completed that demonstrates technical infeasibility as noted in D.3 below.

D.3 Bioretention and Biotreatment Assessment

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

Select one of the following:

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

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

D.4 Feasibility Assessment Summaries

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

Table D.2 LID Prioritization Summary Matrix

DMA Name/ID	LID BMP Hierarchy				No LID (Alternative Compliance)
	1. Infiltration	2. Harvest and use	3. Bioretention	4. Biotreatment	
DMA-A (L-A, R-A, and H-A)	☐	☐	☐	☒	☐
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐

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

All DMAs are treated using an LID BMP. No alternative compliance is required or proposed.

On-site infiltration testing performed by Southern California Geotechnical determined the project-specific infiltration rate to be between 0.0 and 0.1 in/hr. Since the tested infiltration rate is less than 0.3 in/hr, biotreatment BMPs are acceptable per the LID BMP Feasibility Flow Chart. The project site proposes one (1) Modular Wetlands Systems (MWS) biotreatment device to treat the water quality runoff. The proposed MWS linear treatment devices are classified as biotreatment devised per the WQMP guidelines.

D.5 LID BMP Sizing

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

Table D.3 DCV Calculations for LID BMPs

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*BMP-A*		
	[A]		[B]	[C]	[A] x [C]			
L-A	*35,602*	*Ornamental Landscaping*	*0.1*	*0.11*	*3,932.5*	*Design Storm Depth (in)*	*Design Capture Volume, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
R-A	*161,935*	*Roofs*	*1.0*	*0.892*	*144,446*			
H-A	*151,487*	*Concrete or Asphalt*	*1.0*	*0.892*	*135,126.4*			
	$A_T = \Sigma[A]$				$\Sigma = [D]$	[E]	$[F] = \frac{[D]x[E]}{12}$	[G]
	349,024				*283,504.9*	*0.62*	*14,553.3*	*15,109*

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

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

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

Section E: Alternative Compliance (LID Waiver Program)

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

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

- *Or* -

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

All DMAs are treated using an LID BMP. No alternative compliance is required or proposed.

E.1 Identify Pollutants of Concern

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

Table E.1 Potential Pollutants by Land Use Type

Priority Development Project Categories and/or Project Features (check those that apply)	General Pollutant Categories							
	Bacterial Indicators	Metals	Nutrients	Pesticides	Toxic Organic Compounds	Sediments	Trash & Debris	Oil & Grease
☐ Detached Residential Development	P	N	P	P	N	P	P	P
☐ Attached Residential Development	P	N	P	P	N	P	P	P(2)
☒ Commercial/Industrial Development	P(3)	P	P(1)	P(1)	P(5)	P(1)	P	P
☐ Automotive Repair Shops	N	P	N	N	P(4, 5)	N	P	P
☐ Restaurants (>5,000 ft^2)	P	N	N	N	N	N	P	P
☐ Hillside Development (>5,000 ft^2)	P	N	P	P	N	P	P	P
☐ Parking Lots (>5,000 ft^2)	P(6)	P	P(1)	P(1)	P(4)	P(1)	P	P
☐ Retail Gasoline Outlets	N	P	N	N	P	N	P	P
Project Priority Pollutant(s) of Concern	☐	☐	☐	☐	☐	☐	☐	☐

P = Potential

N = Not Potential

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

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

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

(4) Specifically petroleum hydrocarbons

(5) Specifically solvents

(6) Bacterial indicators are routinely detected in pavement runoff

E.2 Stormwater Credits

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

Table E.2 Water Quality Credits

Qualifying Project Categories	Credit Percentage[2]
n/a	*n/a*
Total Credit Percentage[1]	

[1]*Cannot Exceed 50%*
[2]*Obtain corresponding data from Table 3-8 in the WQMP Guidance Document*

E.3 Sizing Criteria

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

Table E.3 Treatment Control BMP Sizing

DMA Type/ID	**DMA Area (square feet)**	**Post-Project Surface Type**	**Effective Impervious Fraction, I_f**	**DMA Runoff Factor**	**DMA Area x Runoff Factor**	*n/a*			
	[A]		[B]	[C]	[A] x [C]				
n/a						*Design Storm Depth (in)*	*Minimum Design Capture Volume or Design Flow Rate (cubic feet or cfs)*	*Total Storm Water Credit % Reduction*	*Proposed Volume or Flow on Plans (cubic feet or cfs)*
	A_T = Σ[A]				Σ= [D]	[E]	$[F] = \frac{[D]x[E]}{[G]}$	[F] X (1-[H])	[I]

[B], [C] is obtained as described in Section 2.3.1 from the WQMP Guidance Document
[E] is obtained from Exhibit A in the WQMP Guidance Document
[G] is for Flow-Based Treatment Control BMPs [G] = 43,560, for Volume-Based Control Treatment BMPs, [G] = 12
[H] is from the Total Credit Percentage as Calculated from Table E.2 above
[I] as obtained from a design procedure sheet from the BMP manufacturer and should be included in Appendix 6

E.4 Treatment Control BMP Selection

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

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

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

Table E.4 Treatment Control BMP Selection

Selected Treatment Control BMP Name or ID[1]	Priority Pollutant(s) of Concern to Mitigate[2]	Removal Efficiency Percentage[3]
n/a	*n/a*	*n/a*

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

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

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

Section F: Hydromodification

F.1 Hydrologic Conditions of Concern (HCOC) Analysis

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

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

Does the project qualify for this HCOC Exemption? ☐ Y ☒ N

If Yes, HCOC criteria do not apply.

HCOC EXEMPTION 2: The volume and time of concentration[1] of storm water runoff for the post-development condition is not significantly different from the pre-development condition for a 2-year return frequency storm (a difference of 5% or less is considered insignificant) using one of the following methods to calculate:

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

Does the project qualify for this HCOC Exemption? ☐ Y ☒ N

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

Table F.1 Hydrologic Conditions of Concern Summary

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

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

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

Does the project qualify for this HCOC Exemption? ☐ Y ☒ N

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

n/a

F.2 HCOC Mitigation

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

a. Additional LID BMPS are implemented onsite or offsite to mitigate potential erosion or habitat impacts as a result of HCOCs. This can be conducted by an evaluation of site-specific conditions utilizing accepted professional methodologies published by entities such as the California Stormwater Quality Association (CASQA), the Southern California Coastal Water Research Project (SCCRWP), or other Co-Permittee approved methodologies for site-specific HCOC analysis.

b. The project is developed consistent with an approved Watershed Action Plan that addresses HCOC in Receiving Waters.

c. Mimicking the pre-development hydrograph with the post-development hydrograph, for a 2-year return frequency storm. Generally, the hydrologic conditions of concern are not significant, if the post-development hydrograph is no more than 10% greater than pre-development hydrograph. In cases where excess volume cannot be infiltrated or captured and reused, discharge from the site must be limited to a flow rate no greater than 110% of the pre-development 2-year peak flow.

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

Proposed flows will follow existing flow paths established per Storm Drain, PA 05-0042 by Gabel, Cook and Associates, which outlet into an open area south of the project site and north of the I-215 freeway. Since the pre-condition and post-condition are both fully-developed, light industrial sites, there will be no increase in flows or intensity from historic storm events. Therefore, HCOC is considered mitigated. Additional documentation is included in Appendix 7.

Section G: Source Control BMPs

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

1. ***Identify Pollutant Sources*:** Review Column 1 in the Pollutant Sources/Source Control Checklist. Check off the potential sources of Pollutants that apply to your site.

2. ***Note Locations on Project-Specific WQMP Exhibit*:** Note the corresponding requirements listed in Column 2 of the Pollutant Sources/Source Control Checklist. Show the location of each Pollutant source and each permanent Source Control BMP in your Project-Specific WQMP Exhibit located in Appendix 1.

3. ***Prepare a Table and Narrative*:** Check off the corresponding requirements listed in Column 3 in the Pollutant Sources/Source Control Checklist. In the left column of Table G.1 below, list each potential source of runoff Pollutants on your site (from those that you checked in the Pollutant Sources/Source Control Checklist). In the middle column, list the corresponding permanent, Structural Source Control BMPs (from Columns 2 and 3 of the Pollutant Sources/Source Control Checklist) used to prevent Pollutants from entering runoff. **Add additional narrative** in this column that explains any special features, materials or methods of construction that will be used to implement these permanent, Structural Source Control BMPs.

4. ***Identify Operational Source Control BMPs:*** To complete your table, refer once again to the Pollutant Sources/Source Control Checklist. List in the right column of your table the Operational BMPs that should be implemented as long as the anticipated activities continue at the site. Copermittee stormwater ordinances require that applicable Source Control BMPs be implemented; the same BMPs may also be required as a condition of a use permit or other revocable Discretionary Approval for use of the site.

Table G.1 Permanent and Operational Source Control Measures

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

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

	by the State Department of Pesticide Regulation. Pesticides should be used at an absolute minimum or not at all in the retention/infiltration basin. If used, it should not be applied in close proximity to the rainy season.	
D. Refuse Trash Storage areas	*Trash container storage areas shall be paved with an impervious surface, designed not to allow run-on from adjoining areas, designed to divert drainage from adjoining roofs and pavements from the surrounding area, and screened or walled to prevent off-site transport of trash.* *Trash dumpsters (containers) shall be leak proof and have attached covers or lids.* *Trash enclosures shall be roofed per City standards and the details on the PWQMP Exhibit in Appendix 1.* *Trash compactors shall be roofed and set on a concrete pad per City standards. The pad shall be a minimum of one foot larger all around than the trash compactor and sloped to drain to a sanitary sewer line. Connection of trash area drains to the MS4 is prohibited.* *See CASQA SD-32 BMP Fact Sheets in Appendix 10 for additional info.* *Signs shall be posted on or near dumpsters with the words "Do not dump hazardous materials here" or similar.*	*Adequate number of receptacles shall be provided. Inspect receptacles monthly; repair or replace leaky receptacles as needed. Keep receptacles covered.* *Prohibit/prevent dumping of liquid or hazardous wastes. Post "no hazardous materials" signs. Inspect and pick up litter daily and clean up spills immediately. Keep spill control materials available on-site. See Fact Sheet SC-34, in Appendix 10, "Waste Handling and Disposal" in the CASQA Stormwater Quality Handbook at www.cabmphandbooks.com*
E. Industrial Processes	*All process activities to be performed indoors. No processes to drain to exterior or to storm drain system.*	*See the Fact Sheet SC-10, in Appendix 10, "Non-Stormwater Discharges" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com* *See the brochure "Industrial & Commercial Facilities Best Management Practices for: Industrial, Commercial Facilities" at http://rcflood.org/stormwater/*
F. Loading Docks	*Loading docks will not be covered and are 4 feet above finished*	*Move loaded and unloaded items indoors as soon as possible.*

	pavement surface. *Spill kits are to be kept on-site at all times per SC-11*	*Inspect for accumulated trash and debris. Implement good housekeeping procedures on a regular basis. Sweep areas clean instead of using wash water.* *Loading docks will be kept in a clean and orderly condition, through a regular program of sweeping and litter control, and immediate cleanup of any spills or broken containers. Property owner will ensure that loading docks will be swept as needed. Cleanup procedures will not include the use of wash-down water. Property owner will be responsible for implementation of loading dock housekeeping procedures* *See the Fact Sheet SC-30, in Appendix 10, "Outdoor Loading and Unloading" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com*
G. Fire Sprinkler Test Water	*Provide a means to drain fire sprinkler test water to the sanitary sewer.*	*See the note in Fact Sheet SC-41, in Appendix 10, "Building and Grounds Maintenance" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com*
H. Miscellaneous Drian or Wash Water or Other Sources *Boiler Drain Lines* *Condensate drain lines* *Rooftop Equipment* *Drainage Sumps* *Roofing, gutters, and trim* *Other Sources*	*Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system.* *Condensate drain lines may discharge to the landscaped areas if the flow is small enough that runoff will not occur. Condensate drain lines may not discharge to the storm drain system.* *Rooftop equipment with potential to produce pollutants shall be roofed and/or have secondary containment.* *Any drainage sumps on-site shall feature a sediment sump to reduce the quantity of sediment in the pumped water.* *Avoid roofing, gutters, and trim made of copper or other unprotected metals that may leach*	

	into runoff. *Include controls for other sources as specified by local review.*	
I. Plazas, sidewalks, and parking lots	*Spill kits are to be kept on-site at all times per SC-11.*	*Sweep plazas, sidewalks, and parking lots regularly to prevent accumulation of litter and debris. Collect debris from pressure washing to prevent entry into the storm drain system. Collect washwater containing any cleaning agent or degreaser and discharge to the sanitary sewer not to a storm drain.*

Section H: Construction Plan Checklist

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

Table H.1 Construction Plan Cross-reference

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

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

** To be completed during final engineering.*

Section I: Operation, Maintenance and Funding

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

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

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

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

Maintenance Mechanism: WQMP Covenant & Agreement

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

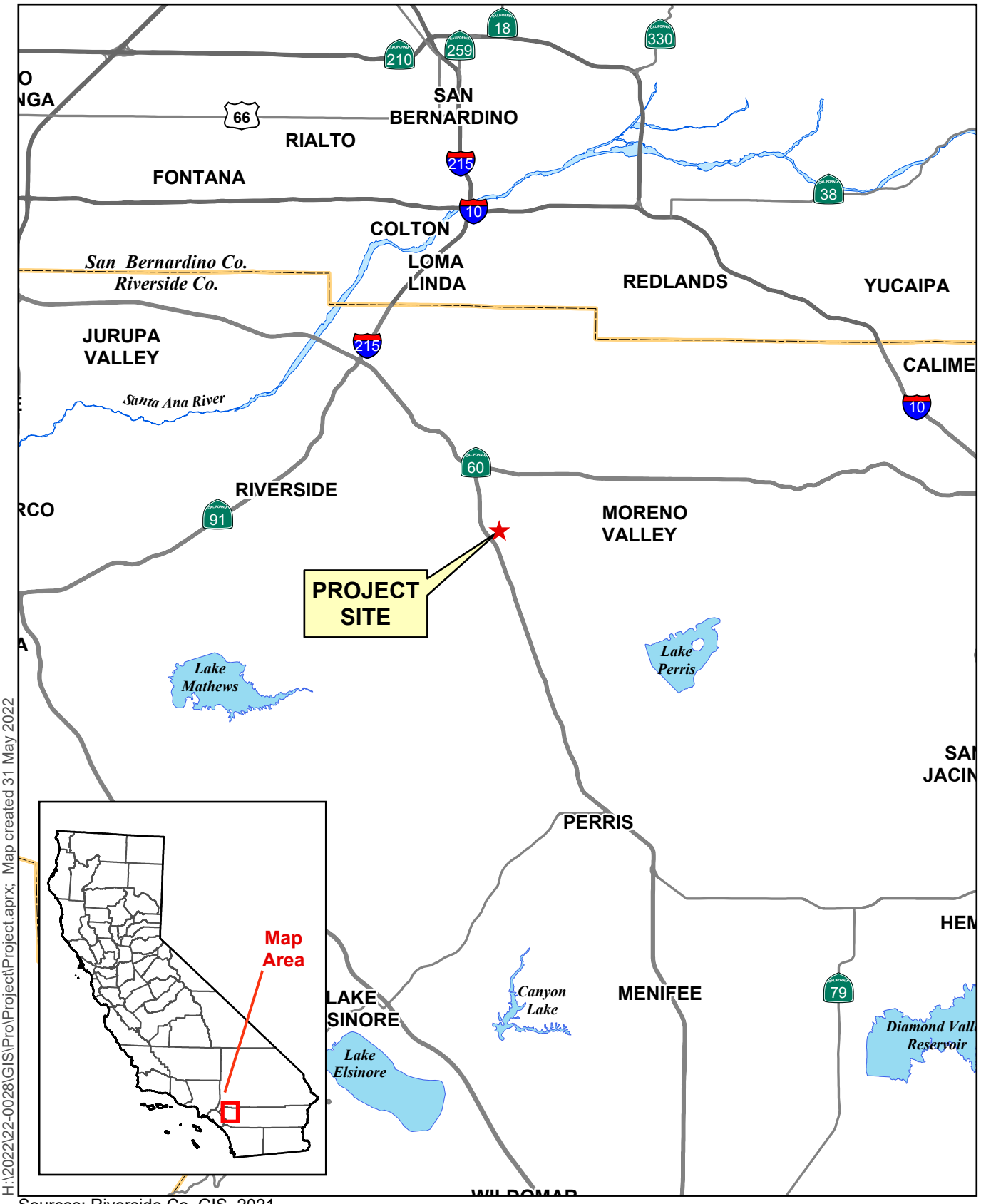
☐ Y ☒ N

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

** To be completed during final engineering.*

Appendix 1: Maps and Site Plans

Location Map, WQMP Site Plan and Receiving Waters Map



H:\2022\22-0028\GIS\Pro\Project\Project.aprx; Map created 31 May 2022

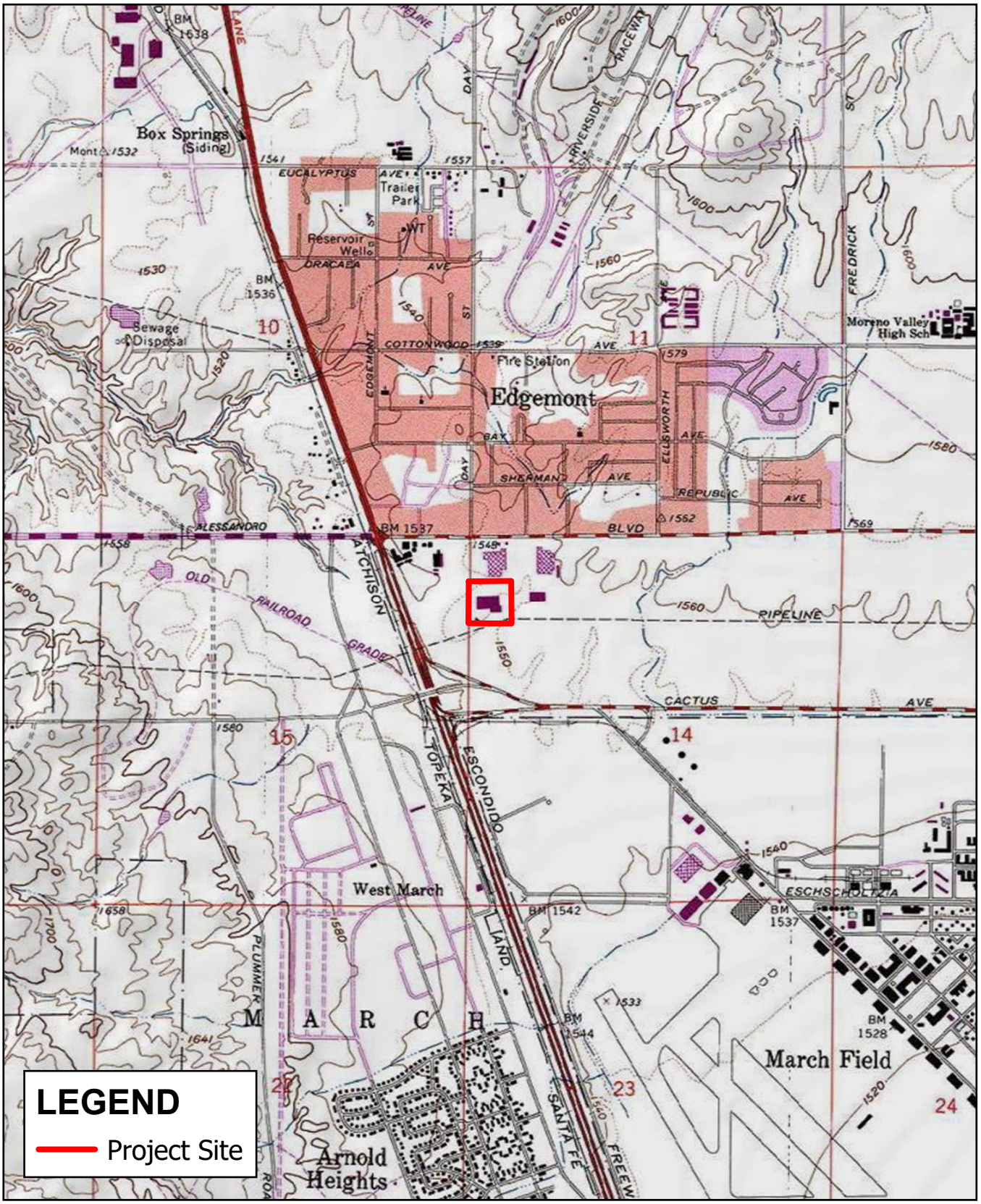
Sources: Riverside Co. GIS, 2021

0 2 4 6 Miles

Vicinity Map

Day Street - Survey Mapping and Entitlement

ALBERT A. WEBB ASSOCIATES



H:\2022\22-0028\GIS\Pro\Project\Project.aprx; Map created 31 May 2022; jays

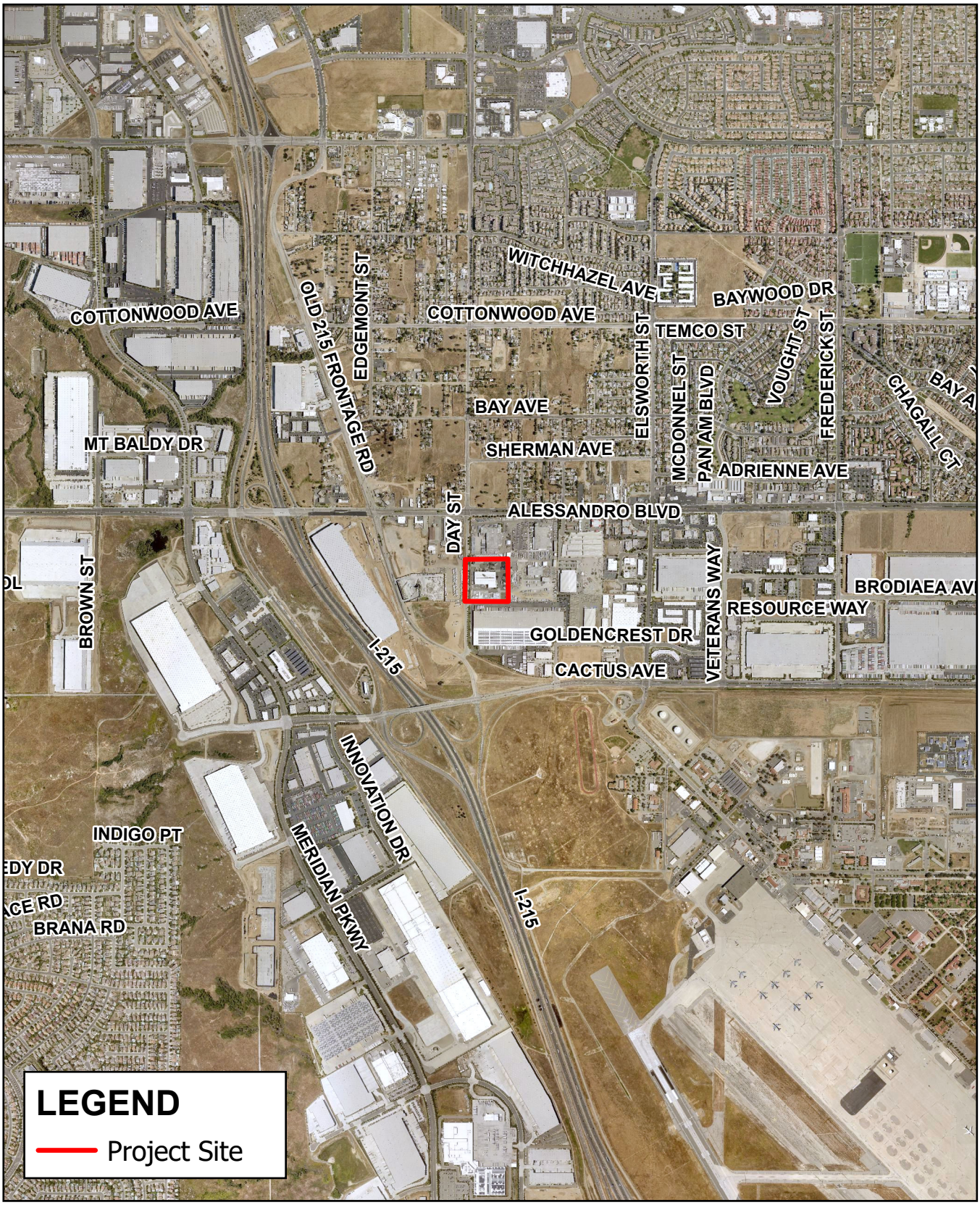
Sources: ESRI / USGS 7.5min Quad
DRGs: MORENO VALLEY

0 1,000 2,000 3,000 Feet

USGS Topography Map

Day Street - Survey Mapping and Entitlement

ALBERT A. WEBB ASSOCIATES



H:\2022\22-0028\GIS\Pro\Project\Project.aprx; Map created 31 May 2022

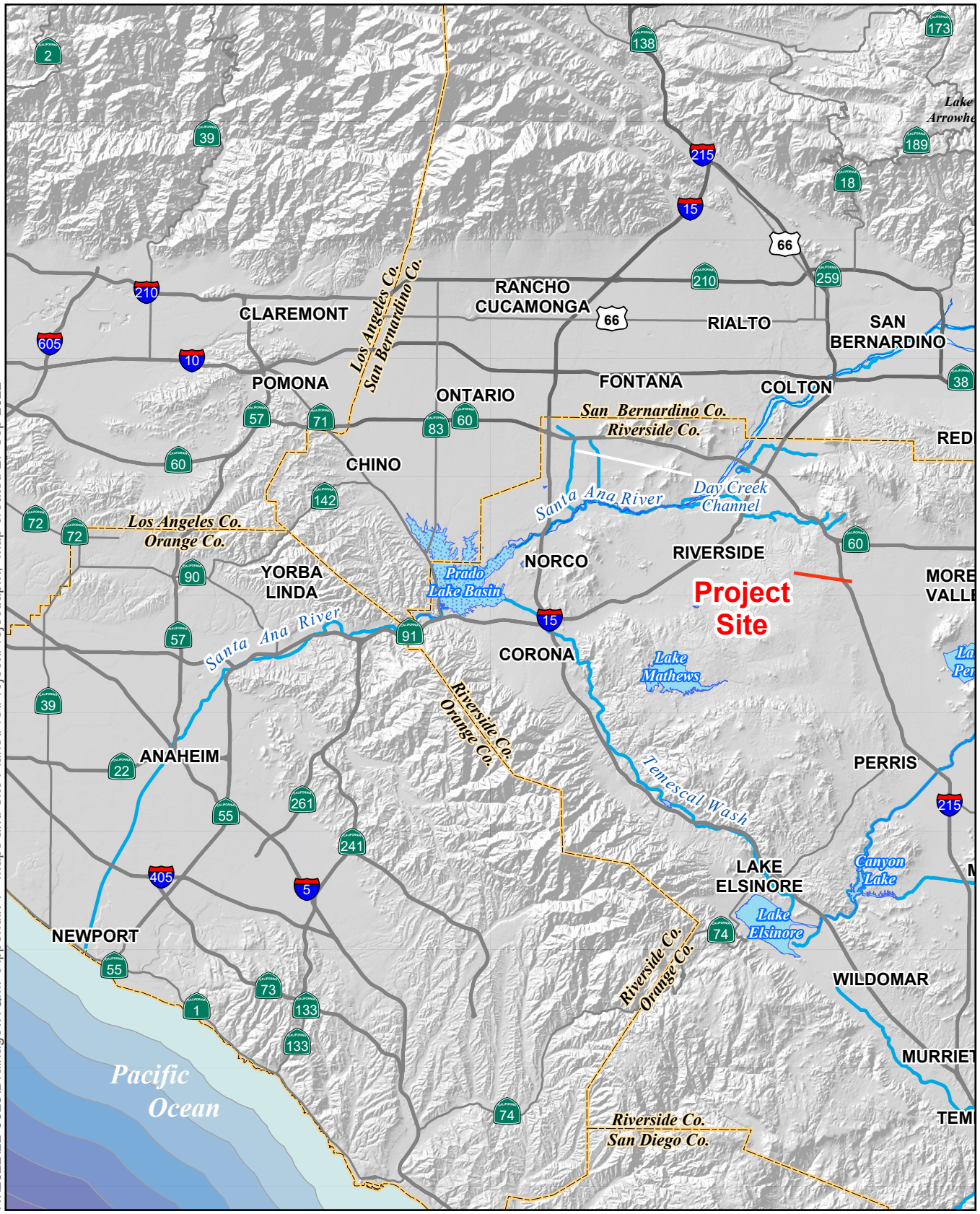
Sources: Riverside Co. GIS, 2021

0 1,000 2,000 3,000 Feet

Aerial Map

Day Street - Survey Mapping and Entitlement

ALBERT A. WEBB ASSOCIATES



H:\2022\22-0028\Drainage\WQMP\Appendix 1 - Maps and Site Plans\Pro\Project\Project.aprx; Map created 27 Sep 2022

Sources: USGS DLG; USGS 30m DEM

0 3 6 9 12 Miles

Receiving Waterbodies

Day Street - Survey Mapping and Entitlement

ALBERT A. WEBB ASSOCIATES

POTENTIAL FOR LANDSCAPING/OUTDOOR PESTICIDE USE AT LANDSCAPED AREAS (TYP). MAINTAIN LANDSCAPING USING MINIMAL OR NO PESTICIDES

PROP V-DITCH FOR OFF-SITE FLOWS

SWEEP ROADWAYS REGULARLY TO PREVENT ACCUMULATION OF LITTER AND DEBRIS

PROP CHANNEL FOR OFF-SITE FLOWS

MAINTAIN AND PERIODICALLY REPAINT INLET MARKINGS. NO DISCHARGE SHALL BE DUMPED INTO THE CATCH BASIN (TYP)

EX STORM DRAIN TO BE REMOVED

DMA-A
8.01 ACRES

- INTERIOR FLOOR DRAINS AND ELEVATOR SHAFT SUMP PUMPS WILL BE PLUMBED TO SANITARY SEWER.
- ANY DRAINS FROM DUMPSTERS, COMPACTORS, AND TALLOW BIN AREAS SHALL BE CONNECTED TO A GREASE REMOVAL DEVICE BEFORE DISCHARGE TO SANITARY SEWER.
- ALL PROCESS ACTIVITIES TO BE PERFORMED INDOORS.
- NO PROCESSES TO DRAIN TO EXTERIOR OR TO STORM DRAIN SYSTEM.
- NO OUTDOOR STORAGE, VEHICLE CLEANING, OR VEHICLE MAINTENANCE.
- CONDENSATE DRAIN LINES MAY NOT DISCHARGE TO THE STORM DRAIN SYSTEM. ROOFTOP EQUIPMENT WITH THE POTENTIAL TO PRODUCE POLLUTANTS SHALL BE ROOFED OR HAVE SECONDARY CONTAINMENT.

EX BUILDING TO BE REMOVED

EX STORM DRAIN TO BE REMOVED

CAUTION!! EX 30" GAS LINE

PROP "LINE-I" STORM DRAIN

PROP CHANNEL FOR OFF-SITE FLOWS

UNDERGROUND STORAGE FOR WQ FLOWS
V_{PROP}= 15,878 CF

PROP LIFT STATION

BMP-A
ONE (1) 8'X24' MWS-LINEAR
VOL_{BMP}= 14,553 CF
VOL_{TREAT}= 15,109 CF

PROP ON-SITE STORM DRAIN

PROP CHANNEL FOR OFF-SITE FLOWS

NOTE: UNDERGROUND STORAGE FOR WQ FLOWS IS UPSTREAM OF THE UNDERGROUND STORAGE FOR LARGER STORMS. IF NECESSARY, A BLEEDER PIPE CAN BE INCLUDED IN FINAL ENGINEERING TO PROVIDE OUTLET FROM THE WQ STORAGE TO THE LARGER STORM STORAGE, IN CASE OF PUMP FAILURE.
IF THE PUMPS ON THE LARGER STORAGE FAILS, IT WOULD SIMPLY NOT ACCEPT ANY FURTHER FLOWS AND WOULD SURFACE FLOW ONSITE TOWARDS THE 6' OPENINGS IN THE CURB ALONG THE SOUTHERN BOUNDARY.

UNDERGROUND STORAGE FOR OFF-SITE FLOWS
V_{PROP}= 358,848 CF

PROP "LINE-I" STORM DRAIN

6' WIDE OPENINGS (TYP)

6' WIDE OPENINGS (TYP)

DISCHARGE POINT
Q100= 70.8 CFS

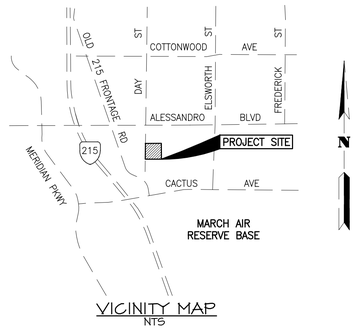
PROP LIFT STATION

6' WIDE OPENINGS THROUGH CURB FOR SECONDARY OVERFLOW (TYP) PER MARCH COMMERCE CENTER PG PLANS

EX 48" STORM DRAIN PER PA05-0042 BY GABEL, COOK, AND ASSOCIATES (Q100= 73.0 CFS)

DAY STREET

EX CURB & GUTTER



VICINITY MAP
NTS

LEGEND

- DRAINAGE MANAGEMENT BOUNDARY
- LANDSCAPING
- ROOF
- CONCRETE OR ASPHALT
- FLOW DIRECTION
- SD — STORM DRAIN PIPE
- STORM INLET
- TRASH ENCLOSURE
- ROOF DRAIN DOWNSPOUT

DRAINAGE MANAGEMENT AREAS

LEGEND	DMA-ID	TYPE	AREA (SF)
	L-A	LANDSCAPE	35,602
	R-A	ROOF	161,935
	H-A	HARDSCAPE	151,487

GENERAL NOTES

1. THIS PRELIMINARY WATER QUALITY REPORT IS BASED ON THE CURRENT AVAILABLE INFORMATION AND IS SUBJECT TO MINOR MODIFICATION.
2. POTENTIAL SELF-RETAINING AREAS EXIST WITHIN THE PARKING AREAS AND WILL BE FURTHER ANALYZED DURING FINAL ENGINEERING. ASSUMED NO SELF-RETAINING AREAS WITHIN THE PARKING AREAS TO REMAIN CONSERVATIVE IN SIZING.
3. BIOTREATMENT DEVICE IS DESIGNED TO DRAIN WITHIN 48 HOURS.
4. PROPOSED BIOTREATMENT DEVICE (8'X24' BIOCLEAN MODULAR WETLANDS) IS ON THE LIST OF ACCEPTED FULL TRASH CAPTURE DEVICES, PER THE CALIFORNIA WATERBOARDS.
5. HIGH GROUNDWATER LEVEL IS 14 FEET BELOW THE GROUND SURFACE.
6. RUN-ON IS ANTICIPATED FOR THE PROJECT SITE. IT WILL BE BE KEPT SEPARATE FROM ON-SITE FLOWS BY PROPOSED V-DITCHES AND CHANNELS ALONG THE NORTHERN AND EASTERN PERIMETERS OF THE PROJECT SITE.
7. SOURCE CONTROL:
   - INTERIOR FLOOR DRAINS AND ELEVATOR SHAFT SUMP PUMPS WILL BE PLUMBED TO SANITARY SEWER.
   - ANY DRAINS FROM DUMPSTERS, COMPACTORS, AND TALLOW BIN AREAS SHALL BE CONNECTED TO A GREASE REMOVAL DEVICE BEFORE DISCHARGE TO SANITARY SEWER.
   - ALL PROCESS ACTIVITIES TO BE PERFORMED INDOORS.
   - NO PROCESSES TO DRAIN TO EXTERIOR OR TO STORM DRAIN SYSTEM.
   - NO OUTDOOR STORAGE, VEHICLE CLEANING, OR VEHICLE MAINTENANCE.
   - LOADING DOCKS DRAIN TO THE BIOTREATMENT DEVICE FOR TREATMENT, WHICH WILL INCLUDE PRE-TREATMENT.
   - CONDENSATE DRAIN LINES MAY NOT DISCHARGE TO THE STORM DRAIN SYSTEM. ROOFTOP EQUIPMENT WITH THE POTENTIAL TO PRODUCE POLLUTANTS SHALL BE ROOFED OR HAVE SECONDARY CONTAINMENT.

W WEBB E S

1" = 40'
40 0 40 80 120

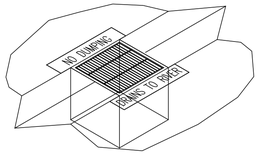
CITY OF MORENO VALLEY

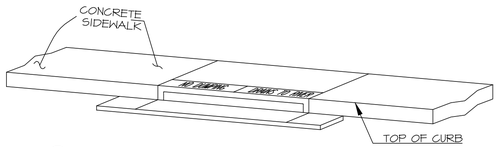
PEN22-0144
PRELIMINARY WQ MANAGEMENT PLAN
WATER QUALITY EXHIBIT

SCALE: 1" = 40'	ALBERT A. WEBB ASSOCIATES	ENGINEERING CONSULTANTS 3788 McCRAY STREET RIVERSIDE CA. 92506 PH. (951) 686-1070 FAX (951) 788-1256	W.O. 22-0028
DATE: 2/22/2023			SHEET 1
DESIGNED: ABE			OF 2 SHEETS
CHECKED: SKK			
PLN CK REF:			DWG. NO.
F.B.			

ADR-REV

H:\2022\22-0028\DRAINAGE\WQMP\DWG DRAWINGS\22-0028-PWQMP.DWG 2/22/2023 10:23:47 AM

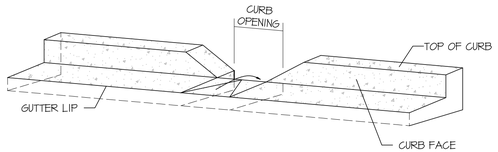




1. STENCILS TO HAVE 2" LETTERS AS FOLLOWS: "NO DUMPING - DRAINS TO RIVER"
2. PLACE BOTH STENCILS CENTERED WITHIN THE CATCHBASIN OPENINGS AND WITHIN THE TOP OF THE CURB.
3. SPRAY BOTH STENCILS WITH WHITE PAINT.
4. REMOVE STENCILS WHEN PAINT IS DRY.

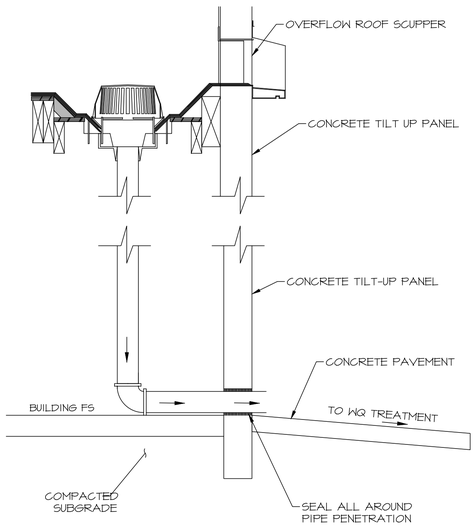
CATCH BASIN STENCILING DETAIL

N.T.S.



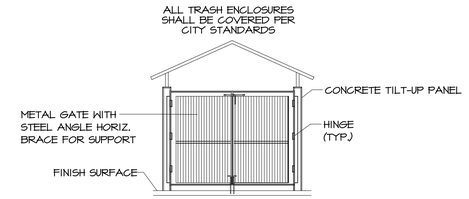
TYPICAL CURB OPENING DETAIL

N.T.S.



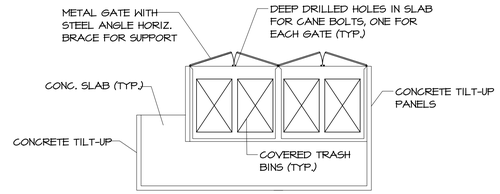
ROOF DRAIN DETAIL

N.T.S.



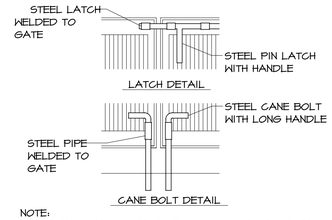
TRASH ENCLOSURE GATE ELEVATION

N.T.S.



TRASH ENCLOSURE PLAN DETAIL

N.T.S.



NOTE:
LATCH AND CANE TO BE AT EXTERIOR SIDE OF GATES

TRASH ENCLOSURE GATE LATCHES DETAIL

N.T.S.

CITY OF MORENO VALLEY

PEN22-0144
PRELIMINARY WQ MANAGEMENT PLAN
TYPICAL SECTIONS AND DETAILS

SCALE: N/A	ALBERT A. WEBB ASSOCIATES	W.O. 22-0028
DATE: 2/22/2023	ENGINEERING CONSULTANTS 3788 McCRAY STREET RIVERSIDE CA. 92506 PH. (951) 686-1070 FAX (951) 788-1256	SHEET 2
DESIGNED: ABE		OF 2 SHEETS
CHECKED: SKK		DWG. NO.
PLN CK REF:		
F.B.		

H:\2022\22-0028\DRAINAGE\WQMP\DWG DRAWINGS\22-0028-PWQMP.DWG 2/22/2023 10:23:47 AM

ASBUILT

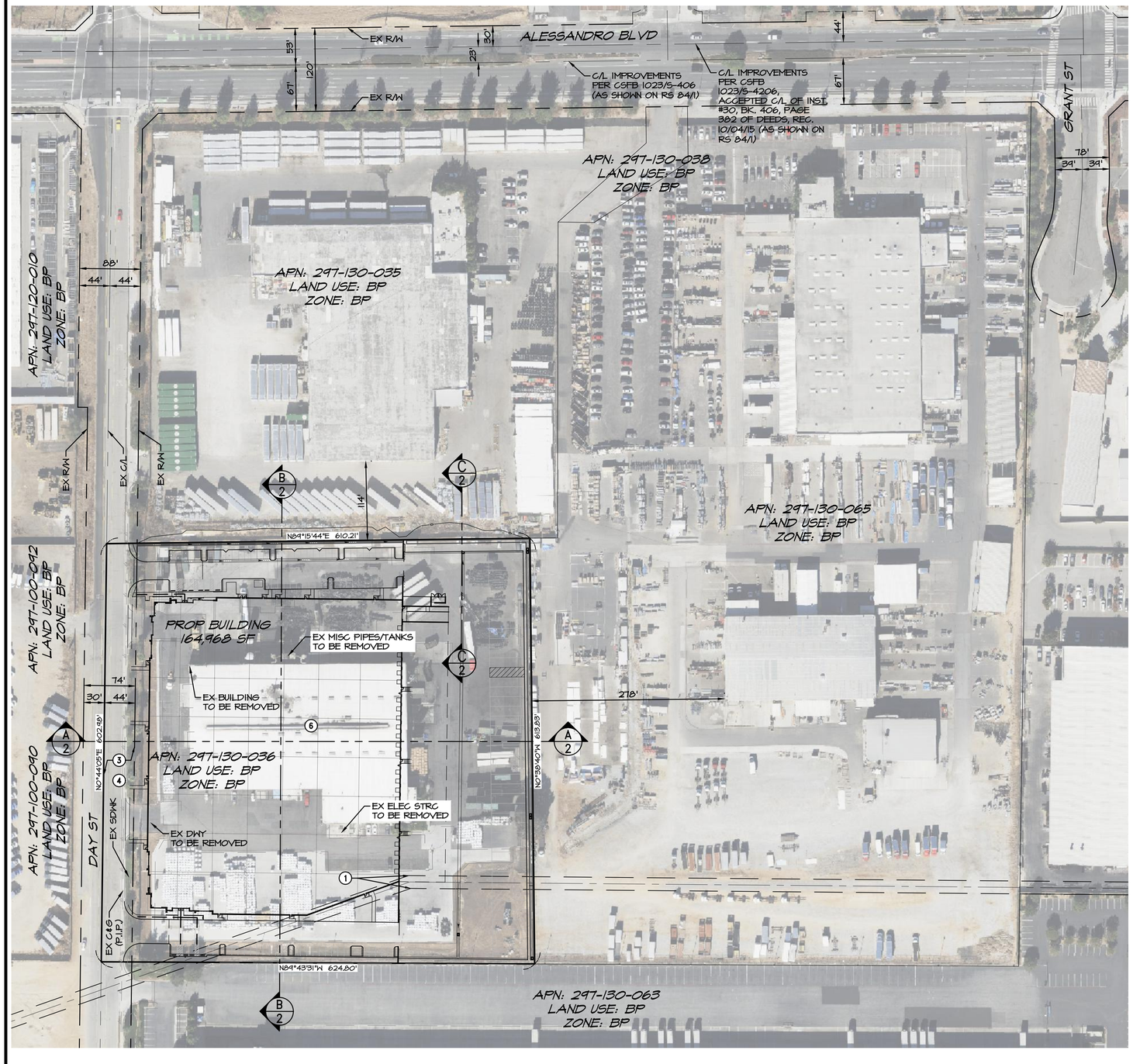
Appendix 2: Construction Plans

Grading and Drainage Plans

IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

PLOT PLAN PEN22-0144

LOCATED IN SECTION 14, T. 3 S., R. 4 W., S.B.M.



GENERAL INFORMATION

1. THOMAS BROS. MAP BOOK PAGE 717, GRID A6.
2. SITE IS ENTIRE CONTIGUOUS OWNERSHIP OF THE LAND DIVIDER.
3. PROJECT IS NOT WITHIN A SPECIFIC PLAN.
4. EASEMENTS OF RECORD ARE PLOTTED HEREON.
5. PROJECT IS WITHIN EDGEMONT COMMUNITY SERVICES DISTRICT.
6. THERE ARE NOT EXISTING WELLS ON THE PROPERTY. THERE IS A MONITORING WELL 350'± NORTH OF THE NORTHERN BOUNDARY.
7. TOPOGRAPHY FLOWN BY INLAND AERIAL SURVEYS, INC.
8. LAND IS NOT WITHIN A SPECIAL STUDIES ZONE.
9. LAND IS NOT SUBJECT TO LIQUEFACTION.
10. HIGH GROUNDWATER LEVEL IS 14 FEET BELOW THE EXISTING GROUND SURFACE.
11. NO SUBSURFACE SEPTIC SEWAGE DISPOSAL IS INTENDED.
12. THERE ARE EXISTING STRUCTURES ON-SITE.
13. THE PROJECT WILL COMPLY WITH NPDES REQUIREMENTS.
14. PROJECT IS WITHIN FLOOD ZONE X, AREA OF LOW FLOODING, PER FEMA PANEL #06065C0745G, EFFECTIVE AUGUST 28, 2008.
15. THIS PROJECT IS WITHIN THE AIRPORT COMPATIBILITY OF MARCH AIR RESERVE BASE, ZONES B1-APZ I AND B2.

LAND USE

EXISTING LAND USE: INDUSTRIAL
EXISTING AND PROPOSED GENERAL PLAN LAND USE: BUSINESS PARK/LIGHT INDUSTRIAL
EXISTING AND PROPOSED ZONING: BUSINESS PARK (BP)

PROJECT DESCRIPTION

EXISTING BUILDING TO BE DEMOLISHED AND PROPOSED DEVELOPMENT OF 164,968 SF PAINTED CONCRETE TILT-UP WAREHOUSE/OFFICE/MANUFACTURING FACILITY TO BE DEVELOPED ON A 8.01 NET ACRE SITE, LOCATED ALONG THE EAST SIDE OF DAY STREET BETWEEN ALESSANDRO BOULEVARD AND OLD 215 FRONTAGE ROAD, IN THE CITY OF MORENO VALLEY

UTILITY PROVIDERS

WATER	EASTERN MUNICIPAL WATER DISTRICT PHONE: (951) 928-6107
SEWER	EDGEMONT COMMUNITY SERVICES DISTRICT PHONE: (951) 784-2632
ELECTRICAL	SOUTHERN CALIFORNIA EDISON PHONE: (909) 233-4831
GAS	SOUTHERN CALIFORNIA GAS COMPANY PHONE: (909) 335-7455
TELEPHONE	FRONTIER COMMUNICATIONS PHONE: (310) 264-5100
CABLE T.V.	FRONTIER COMMUNICATIONS PHONE: (310) 264-5100

LEGAL DESCRIPTION

PARCEL 3 OF PARCEL MAP WAIVER/CERTIFICATE OF COMPLIANCE #2114 IN THE CITY OF MORENO VALLEY, LYING IN SECTION 14, TOWNSHIP 3 SOUTH, RANGE 4 WEST, AS SET FORTH IN A DOCUMENT RECORDED JUNE 6, 1995 AS INSTRUMENT NO. 204095 OF OFFICIAL RECORDS, S.B.M. RIVERSIDE COUNTY, CA.

PROJECT DATA

BUILDING AREA

FOOTPRINT	161,468 SF
MEZZANINE	3,500 SF
PUMPHOUSE	0 SF
TOTAL	164,968 SF

PARKING

PARKING TYPE	REQUIRED	PROVIDED
OFFICE (1/250 SF-7,000 SF)	28	
WAREHOUSE		62
1-20,000 SF (1/1,000 SF)	20	
20-40,000 SF (1/2,000 SF)	10	
>40,000 SF (1/4,000 SF)	30	
ADA	4	6
EV PARKING STALS		9
CARPOOL/VANPOOL STALLS		12
SUB-TOTAL	88	84
TRAILER	17	41
GRAND TOTAL	105	130
BICYCLE	5%	5

LANDSCAPING

LANDSCAPE	10%	36,030 SF (10.32%)

EARTHWORK ESTIMATE

CUT:	4,100 CY
FILL:	23,000 CY
SUBSIDENCE:	(1,500 CY)
UTILITY SPOILS:	13,900 CY
NET (IMPORT):	6,500 CY

SHEET INDEX

1" = 80'

80 0 80 160 240

VICINITY MAP
NTS

OWNER/APPLICANT

FIRST INDUSTRIAL REALTY TRUST
898 N. PACIFIC HIGHWAY, STE 175
EL SEGUNDO, CA 90245
CONTACT: PAUL LOUBET
PHONE: (909) 230-3842

SOILS ENGINEER

SOUTHERN CALIFORNIA GEOTECHNICAL
22885 E. SAVI RANCH PKWY, STE E
YORBA LINDA, CA 92887
CONTACT: ROBERT G. TRAZO
PHONE: (714) 685-1115
FAX: (714) 685-1118

A.P.N.

297-130-036

PROPERTY ADDRESS

14050 DAY STREET
MORENO VALLEY, CA 92553

ACREAGE

8.01	ACRES (NET)
0.61	ACRES (EXISTING R/W)
8.62	ACRES (GROSS)

ENGINEER

ALBERT A. WEBB ASSOCIATES
3788 McCRAY STREET
RIVERSIDE, CA 92506
CONTACT: RICHARD BELMUDEZ
PHONE: (951) 686-1070
FAX: (951) 788-1256

ARCHITECT

RGA, OFFICE OF ARCHITECTURAL DESIGN, INC.
15231 ALTON PARKWAY, STE 100
IRVINE, CA 92618
CONTACT: MIKE GILL
PHONE: (949) 341-0421
FAX: (949) 341-0922

ARCHITECT FILE RECEIVED

ARCHITECT SITE PLAN PROVIDED BY RGA ON 09/12/2022

TOPOGRAPHY SOURCE

TOPOGRAPHY FLOWN BY INLAND AERIAL SURVEYS, INC. ON 01/05/22

SCHOOL DISTRICT

MORENO VALLEY UNIFIED SCHOOL DISTRICT

EASEMENT NOTES

1. EASEMENT AND RIGHTS INCIDENTAL THERETO FOR PIPELINE TO SOUTHERN CALIFORNIA GAS CO. AND SOUTHERN COUNTIES GAS CO., AS SET FORTH IN A DOCUMENT RECORDED JUNE 5, 1948 AS BOOK 911, PAGE 345 OF OFFICIAL RECORDS. SAID EASEMENT HAS BEEN MODIFIED AS DISCLOSED BY A DOCUMENT ENTITLED "AMENDMENT TO RIGHT OF WAY" BY SOUTHERN CALIFORNIA GAS COMPANY, A CALIFORNIA CORPORATION, SUCCESSOR BY MERGER WITH SOUTHERN COUNTIES GAS COMPANY OF CALIFORNIA AND THE CENTENNIAL GROUP, INC., A DELAWARE CORPORATION WHICH RECORDED DECEMBER 10, 1987 AS INSTRUMENT NO. 350003 OF OFFICIAL RECORDS.
2. EASEMENT AND RIGHTS INCIDENTAL THERETO FOR PIPELINE TO FOUR CORNERS PIPE LINE COMPANY, AS SET FORTH IN A DOCUMENT RECORDED JANUARY 10, 1958 IN BOOK 2205 PAGE 147 OF OFFICIAL RECORDS.
3. EASEMENT AND RIGHTS INCIDENTAL THERETO FOR ROAD, UTILITY TO SOUTHERN CALIFORNIA FINANCIAL CORP., AS SET FORTH IN A DOCUMENT RECORDED MARCH 15, 1971 AS INSTRUMENT NO. 25666 OF OFFICIAL RECORDS.
4. EASEMENT AND RIGHTS INCIDENTAL THERETO FOR PUBLIC HIGHWAY, UTILITY, SERVICE FACILITY TO CITY OF MORENO VALLEY, AS SET FORTH IN A DOCUMENT RECORDED JUNE 23, 1995 AS INSTRUMENT NO. 204096 OF OFFICIAL RECORDS.
5. THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "AGREEMENT CONTAINING COVENANTS AFFECTING REAL PROPERTY" RECORDED JUNE 23, 1995 AS INSTRUMENT NO. 204097 OF OFFICIAL RECORDS.
6. COVENANTS, CONDITIONS AND RESTRICTIONS AS SET FORTH IN A DOCUMENT RECORDED JUNE 23, 1995 AS INSTRUMENT NO. 204098 OF OFFICIAL RECORDS, BUT OMITTING ANY RESTRICTIONS BASED ON RACE, COLOR, RELIGION, SEX, GENDER, GENDER IDENTITY, GENDER EXPRESSION, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, VETERAN OR MILITARY STATUS, GENETIC INFORMATION, NATIONAL ORIGIN, SOURCE OF INCOME AS DEFINED IN SUBDIVISION (P) OF SECTION 12955, OR ANCESTRY, THAT RESTRICTION VIOLATES STATE AND FEDERAL FAIR HOUSING LAWS AND IS VOID, AND MAY BE REMOVED PURSUANT TO SECTION 12956.1 OF THE GOVERNMENT CODE. LAWFUL RESTRICTIONS UNDER STATE AND FEDERAL LAW ON THE AGE OF OCCUPANTS IN SENIOR HOUSING OR HOUSING FOR OLDER PERSONS SHALL NOT BE CONSTRUED AS RESTRICTIONS BASED ON FAMILIAL STATUS.

PRELIMINARY

REVISIONS	DATE	BY

FIRST INDUSTRIAL REALTY TRUST, INC
CITY OF MORENO VALLEY

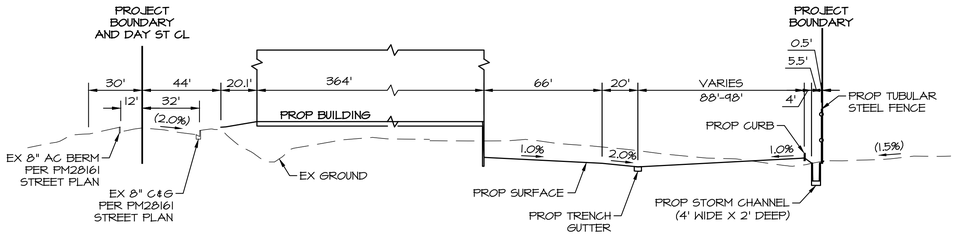
FIRST DAY STREET LOGISTICS
PLOT PLAN PEN22-0144
TITLE SHEET

SCALE:	1" = 80'
DATE:	2/22/2023
DESIGNED:	AV
CHECKED:	ABE
PLN CK REF:	
F.B.	

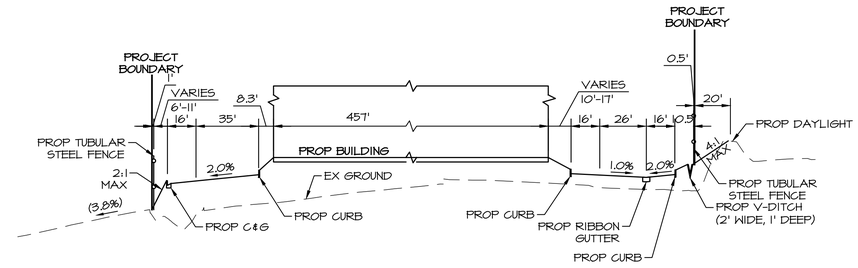
ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

W.O. 22-0028
SHEET 1 OF 4 SHEETS
DWG. NO.

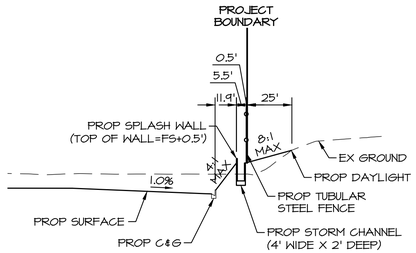
H:\2022\22-0028\DRAWINGS\ENTITLEMENT\22-0028-PP.DWG 2/22/2023 8:22:25 AM



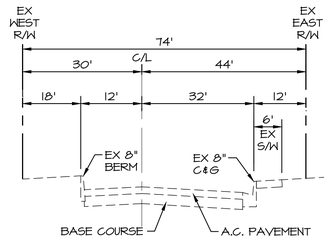
SECTION A-A
NTS



SECTION B-B
NTS



SECTION C-C
NTS



DAY STREET (PUBLIC)
MINOR ARTERIAL (88' R/W)
CITY OF MORENO VALLEY STD. NO. 105A-2
N.T.S.

PRELIMINARY

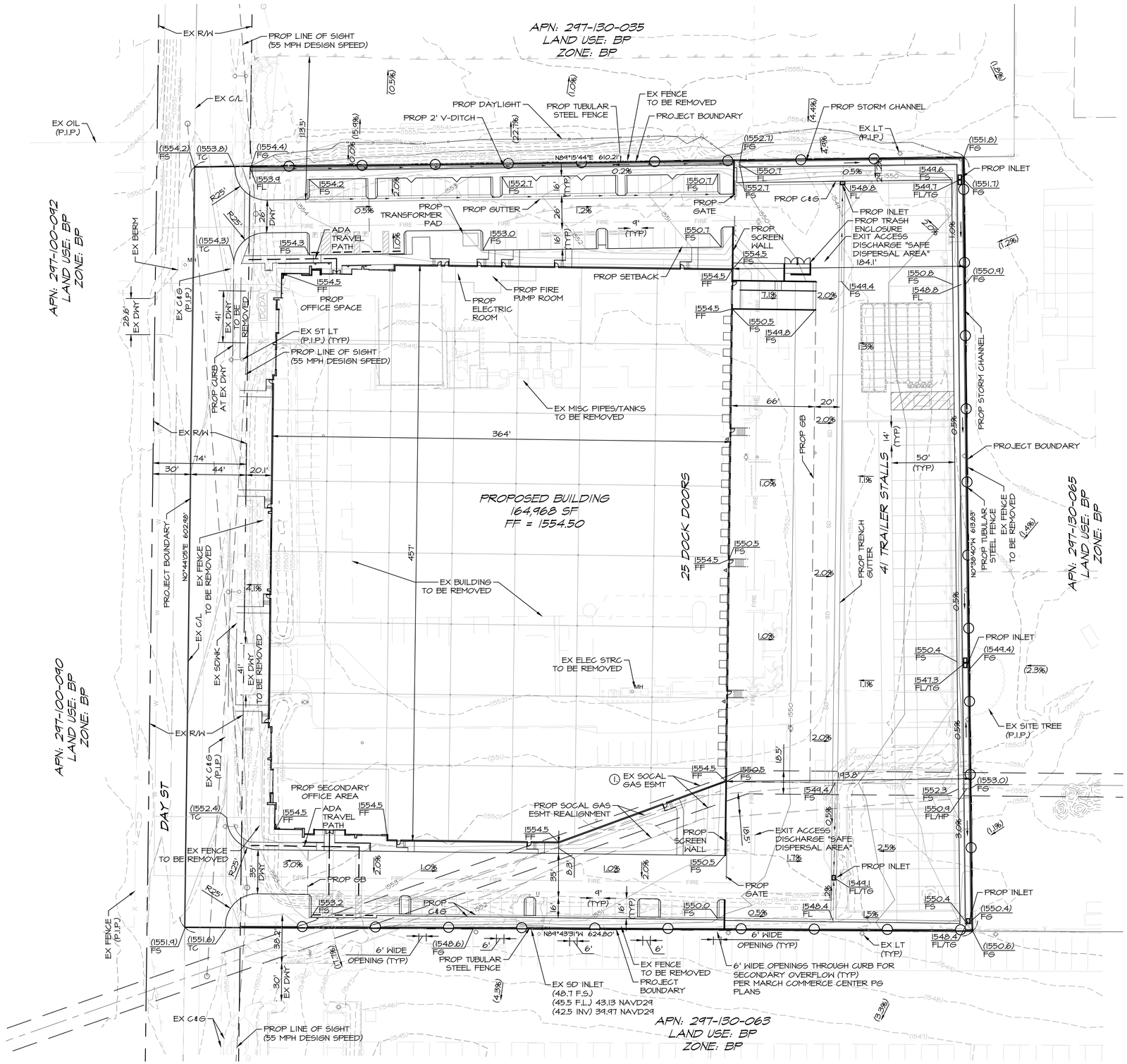
REVISIONS	DATE	BY

FIRST INDUSTRIAL REALTY TRUST, INC
CITY OF MORENO VALLEY

FIRST DAY STREET LOGISTICS
PLOT PLAN PEN22-0144
SECTIONS

SCALE: NTS	ALBERT A. WEBB ASSOCIATES	W.O. 22-0028
DATE: 2/22/2023	ENGINEERING CONSULTANTS 3788 McCRAY STREET RIVERSIDE CA. 92506 PH. (951) 686-1070 FAX (951) 788-1256	SHEET 2
DESIGNED: AV		OF 4 SHEETS
CHECKED: ABE		
PLN CK REF:		DWG. NO.
F.B.		

H:\2022\22-0028\DRAWINGS\ENTITLEMENT\22-0028-PP-SECTIONS.DWG 2/3/2023 10:13:59 AM



LEGEND

- GB
- R/W
- EX ROAD C/L
- FL
- ESMT LINE
- ADA PATH OF TRAVEL
- PROP INLET
- EX EDGE OF PAVEMENT
- PROPERTY BOUNDARY
- PROP CONTOURS
- EX CONTOURS
- PROP TUBULAR STEEL FENCE
- EX FENCE
- EX OIL

ABBREVIATIONS

C&G	CURB AND GUTTER	HP	HIGH POINT
C/L	CENTER LINE	GB	GRADE BREAK
DWY	DRIVEWAY	LT	LIGHT
EX	EXISTING	P.I.P.	PROTECT IN PLACE
ESMT	EASEMENT	PROP	PROPOSED
FF	FINISHED FLOOR	R/W	RIGHT OF WAY
FG	FINISHED GROUND	SD	STORM DRAIN
FH	FIRE HYDRANT	SDWK	SIDEWALK
FL	FLOWLINE	SF	SQUARE FOOT
F.O.	FIBER OPTICS	ST LT	STREET LIGHT
FS	FINISHED SURFACE	TYP	TYPICAL
		TC	TOP OF CURVE
		TG	TOP OF GRADE

N
W WEBB E
S

1" = 40'

40 0 40 80 120

PRELIMINARY

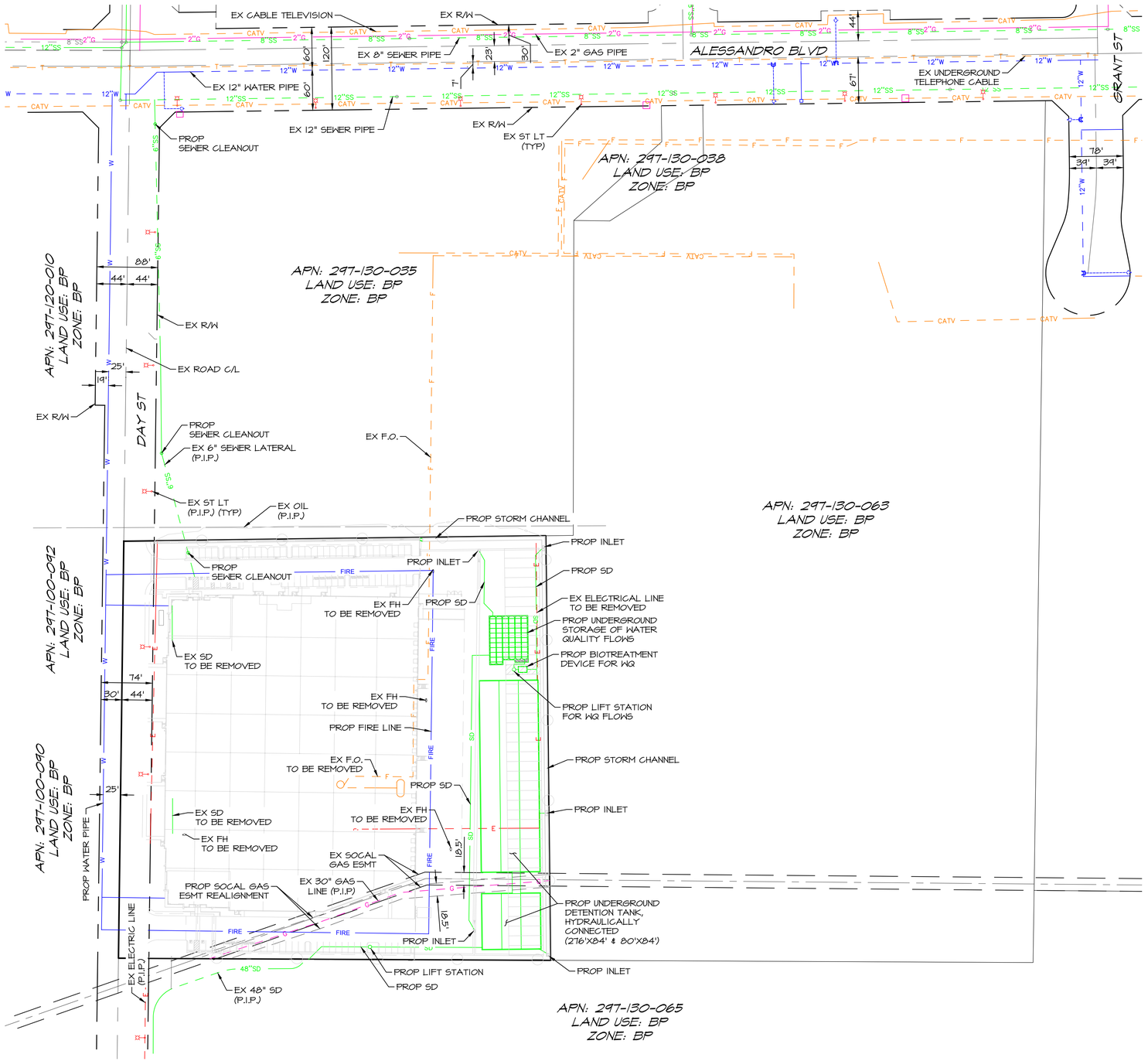
REVISIONS	DATE	BY

FIRST INDUSTRIAL REALTY TRUST, INC
CITY OF MORENO VALLEY

FIRST DAY STREET LOGISTICS
PLOT PLAN PEN22-0144
CONCEPTUAL GRADING

SCALE: 1" = 40'	ALBERT A. WEBB ASSOCIATES	ENGINEERING CONSULTANTS 3788 McCRAY STREET RIVERSIDE, CA. 92506 PH. (951) 686-1070 FAX (951) 788-1256	W.O. 22-0028
DATE: 2/22/2023			SHEET 3
DESIGNED: AV			OF 4 SHEETS
CHECKED: ABE			
PLN CK REF:			DWG. NO.
F.B.			

H:\2022\22-0028\DRAWINGS\ENTITLEMENT\22-0028-PP.DWG 2/22/2023 8:22:25 AM



LEGEND

- GB
- R/W
- EX ROAD C/L
- FL
- ESMT LINE
- EX ELECTRICAL
- PROP SD
- EX 48" SD
- EX 18" SD
- EX 2" GAS
- EX 30" GAS
- PROP FIRE LINE
- PROP WATER
- EX 12" WATER
- EX 6" SEWER
- EX 12" SEWER
- EX 8" SEWER
- EX F.O.
- EX CABLE TELEVISION
- PROP SEWER CLEANOUT
- EX FH
- EX ST LT
- EX FH
- PROP INLET
- EX EDGE OF PAVEMENT
- PROPERTY BOUNDARY
- PROP TUBULAR STEEL FENCE
- EX FENCE
- EX OIL
- EX UNDERGROUND TELEPHONE CABLE

ABBREVIATIONS

C&G	CURB AND GUTTER	LT	LIGHT
C/L	CENTER LINE	P.I.P.	PROTECT IN PLACE
DWY	DRIVEWAY	PROP	PROPOSED
EX	EXISTING	R/W	RIGHT OF WAY
ESMT	EASEMENT	SD	STORM DRAIN
FH	FIRE HYDRANT	SDWK	SIDEWALK
F.O.	FIBER OPTICS	ST LT	STREET LIGHT
		TYP	TYPICAL

UTILITY PROVIDERS

WATER	EASTERN MUNICIPAL WATER DISTRICT PHONE: (951) 928-6107
SEWER	EDGEMONT COMMUNITY SERVICES DISTRICT PHONE: (951) 784-2632
ELECTRICAL	SOUTHERN CALIFORNIA EDISON PHONE: (909) 233-9831
GAS	SOUTHERN CALIFORNIA GAS COMPANY PHONE: (909) 335-7455
TELEPHONE	FRONTIER COMMUNICATIONS PHONE: (310) 264-5100
CABLE T.V.	FRONTIER COMMUNICATIONS PHONE: (310) 264-5100

N W E S WEBB

1" = 80'

80 0 80 160 240

PRELIMINARY

REVISIONS	DATE	BY

FIRST INDUSTRIAL REALTY TRUST, INC
CITY OF MORENO VALLEY

FIRST DAY STREET LOGISTICS
PLOT PLAN PEN22-0144
CONCEPTUAL UTILITIES

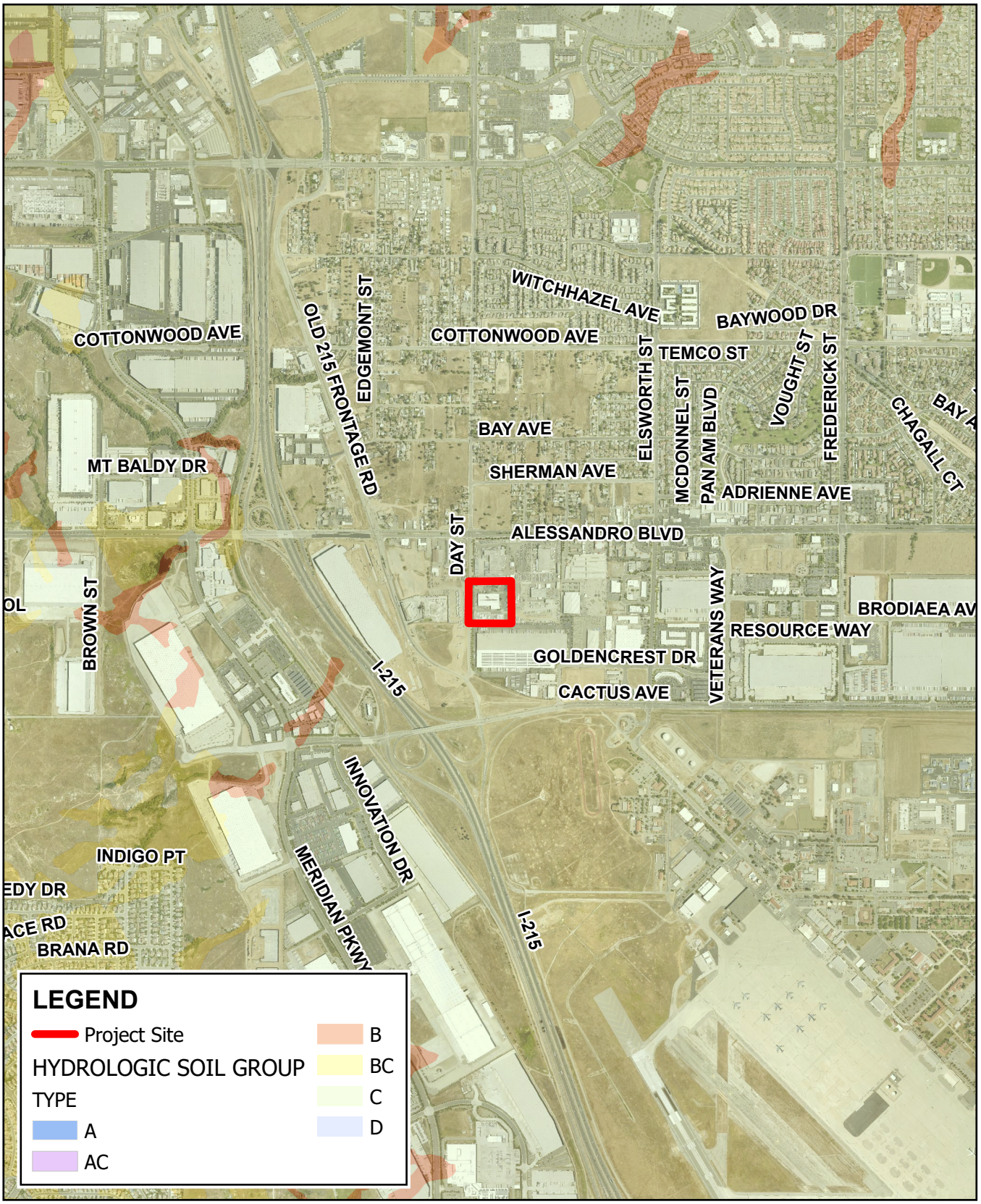
SCALE:	1" = 80'	ALBERT A. WEBB ASSOCIATES	ENGINEERING CONSULTANTS 3788 McCRAY STREET RIVERSIDE CA. 92506 PH. (951) 686-1070 FAX (951) 788-1256
DATE:	2/22/2023		
DESIGNED:	AV		
CHECKED:	ABE		
PLN CK REF:			
F.B.			

W.O. 22-0028
SHEET 4
OF 4 SHEETS
DWG. NO.

H:\2022\22-0028\DRAWINGS\ENTITLEMENT\22-0028-PP.DWG 2/22/2023 8:22:25 AM

Appendix 3: Soils Information

Geotechnical Study and Other Infiltration Testing Data



H:\2022\22-0028\GIS\Pro\Project\Project.aprx; Map created 31 May 2022

Source: Riverside Co. GIS, 2021.
RCFC&WCD Hydrology Manual Plate C-1.30

0 1,000 2,000 3,000 Feet

Soils Map

Day Street - Survey Mapping and Entitlement

ALBERT A. WEBB ASSOCIATES

GEOTECHNICAL INVESTIGATION
PROPOSED WAREHOUSE

14050 Day Street
Moreno Valley, California
for
First Industrial Realty Trust, Inc.

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

February 15, 2022

First Industrial Realty Trust, Inc.
898 N. Pacific Coast Highway. STE 175
El Segundo, CA 90245

Attention: Mr. Michael Goodwin
Director of Development

Project No.: **21G291-1**

Subject: **Geotechnical Investigation**
Proposed Warehouse
14050 Day Street
Moreno Valley, California

Dear Mr. Goodwin:

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

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

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Joseph Lozano Leon
Staff Engineer

Robert G. Trazo, GE 2655
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
ROBERT TRAZO
No. 2655
GEOTECHNICAL
STATE OF CALIFORNIA

Distribution: (1) Addressee

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY

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

Geotechnical Design Considerations

- The Riverside County GIS website indicates that the site is located in a designated high to moderate liquefaction susceptibility. Therefore, the scope of this investigation included a detailed liquefaction evaluation in order to determine the site-specific liquefaction potential.
- Our site-specific liquefaction evaluation indicates that the on-site soils are not subject to liquefaction during the design seismic event. No design considerations related to liquefaction are considered warranted for this project.
- All of the borings encountered artificial fill materials, extending to depths of 4½ to 5½± feet below the existing site grades. The fill soils possess varying strengths and densities, and are considered to represent undocumented fill. These soils, in their present condition, are not considered suitable for support of the foundation loads of the new structure.

Site Preparation

- Demolition of the existing structure, including foundations, floor slab, pavements, concrete flatwork, and any subsurface improvements, which will not be utilized as part of the new development, will be required. Debris resulting from demolition activities should be disposed of off-site in accordance with local regulations. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site sands, and incorporated into new structural fills or it may be crushed and made into crushed miscellaneous base (CMB), if desired.
- Initial site stripping should include removal of the surficial vegetation from the site. Stripping should include native grass, weeds, shrubs and trees. Root systems associated with the trees should be removed in their entirety, and the resultant excavations should be backfilled with compacted structural fill soils. These materials should be properly disposed of off-site.
- The proposed building pad area should be overexcavated to a depth of at least 3 feet below existing grade and to a depth of at least 3 feet below proposed pad grade, whichever is deeper. Overexcavation within the new foundation areas is recommended to extend to a depth of at least 2 feet below proposed foundation bearing grade.
- After overexcavation has been completed, the subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting subgrade should then be scarified to a depth of 12 inches, moisture conditioned or air dried to 2 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The previously excavated soils may then be replaced as compacted structural fill.
- The new pavement and flatwork subgrade soils are recommended to be scarified to a depth of 12± inches, moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.

Building Foundations

- Spread footing foundations, supported in newly placed structural fill soils.
- Maximum, net allowable soil bearing pressure: 2,500 lbs/ft^2.
- Reinforcement consisting of at least four (4) No. 5 rebars (2 top and 2 bottom) in strip footings.
- Additional reinforcement may be necessary for structural considerations.

Building Floor Slab

- Conventional Slab on Grade, at least 6 inches thick
- Modulus of Subgrade Reaction: k = 100 psi/in
- Minimum slab reinforcement: Reinforcement of the floor slab should consist of No. 3 bars at 18-inches on center in both directions due to presence of low expansive soils.
- The actual thickness and reinforcement of the floor slab should be determined by the structural engineer.

Pavements

ASPHALT PAVEMENTS (R = 30)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	6	8	10	11	13
Compacted Subgrade	12	12	12	12	12

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

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 21P518, dated December 23, 2021. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slab, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. Based on the location of this site, the geotechnical investigation also included a site-specific liquefaction evaluation. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site is located on the east side of Day Street, 690± feet south of the intersection of Day Street and Alessandro Boulevard in Moreno Valley, California. The site is also referenced by the street address 14050 Day Street. The site is bounded to the west by Day Street, and to the south, east and north by industrial/commercial buildings. The general location of the site is illustrated on the Site Location Map, included as Plate 1 in Appendix A of this report.

The subject site consists of a near rectangular-shaped parcel, 8.01± acres in size. The site is currently developed with an industrial building, 65,000± ft² in size, located in the west-central area of the site. The building is a single-story structure of metal frame construction, and assumed to be supported on conventional shallow foundations with a concrete slab-on-grade floor. Silos and above ground storage tanks (AST's) are located immediately north of the building. Some large trees are present in the landscaped area immediately southeast from the building. The building is generally surrounded by asphaltic concrete (AC) pavements in the parking and drive lanes, and Portland cement concrete (PCC) pavements in the product storage areas in the northern and southern areas of the site. The existing pavements are in poor to fair condition, with moderate to severe cracking throughout. Earthen swales are present in area along the western and southern property lines.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth and visual observations made at the time of the subsurface investigation, the overall site generally slopes downward to the south at a gradient of less than 1 percent.

3.2 Proposed Development

A preliminary site plan, identified as Scheme 01 and prepared by RGA, for the proposed development was provided to our office by the client. Based on this plan, the subject site will be developed with a 163,242± ft² warehouse, located in the western portion of the site. Dock-high doors will be constructed along a portion of the east building wall. The proposed building is expected to be surrounded by AC pavements in the parking and drive areas, PCC pavements in the loading dock area, and concrete flatwork and landscaped planters throughout the site.

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

No significant amounts of below-grade construction, such as basements or crawl spaces, are

expected to be included in the proposed development. Based on the assumed topography, cuts and fills of up to 3± feet are expected to be necessary to achieve the proposed building pad grades. It should be noted that this estimate does not include any remedial grading recommendations which are presented in a subsequent section of this report.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of five (5) borings (identified as Boring Nos. B-1 through B-5) advanced to depths of 20 to 50± feet below the existing site grades. Two of these borings were advanced to a depth of 50± feet as a part of the liquefaction evaluation. All of the borings were logged during drilling by a member of our staff.

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

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

4.2 Geotechnical Conditions

Pavements

Boring No. B-1 was drilled within the existing PCC pavements. The pavement section at this location consists of 7± inches of unreinforced PCC with no discernible layer of underlying aggregate base. Boring Nos. B-2, B-3, B-4 and B-5 were drilled within the existing AC pavements. The pavement sections at these locations consist of 1 to 3± inches of AC, underlain by 4 to 5± inches of aggregate base. A Petromat geotextile material was clearly observed between the AC and base sections at Boring Nos. B-2 and B-5.

Artificial Fill

Artificial fill soils were encountered beneath the existing pavements at all of the boring locations, extending to depths of 4½ to 5½± feet below the existing site grades. The fill soils generally consist of loose to dense silty sands and clayey sands. The fill soils possess a disturbed and

mottled appearance, and some samples possess debris such as concrete fragments, resulting in their classification as artificial fill.

Alluvium

Native alluvial soils were encountered beneath the fill soils at all of the boring locations, extending to at least the maximum depth explored of 50± feet below the existing site grades. The alluvial soils generally consist of stiff to very stiff sandy clays, silty clays and clayey silts, and medium dense to dense clayey sands and silty sands, with occasional medium dense to very dense well graded sands and medium dense sandy silts.

Groundwater

Free water was encountered during drilling at Boring Nos. B-1 and B-4 at depths of 32 and 27± feet below the ground surface, respectively. Delayed groundwater level readings, approximately 3 hours after the completion of drilling, were taken within the inside of the augers at these boring locations. These readings indicated that the groundwater was at depths of 21½ and 23± feet, respectively. Therefore, the static groundwater table is considered to have been present at depths of 21½ and 23± feet below the existing site grades at the time of subsurface exploration.

As part of our research, we reviewed available groundwater data in order to determine the historic high groundwater level for the site. The primary reference used to determine the historic groundwater depths in this area is the Western Municipal Water District and the San Bernardino Valley Water Conservation District Cooperative Well Measuring Program. High water level from the nearest well is included below:

State Well ID	Approximate Distance from Subject Site	Measuring Point Elevation MSL (feet)	High Water Level MSL (feet)
03S/04W-10Q	< 2640 feet	1532.67	1518.29

Based on the well information provided in the above table, the high groundwater level is 14± feet below the ground surface. Therefore, a groundwater depth of 14± feet is considered to be conservative with respect to the more recent site conditions.

5.0 LABORATORY TESTING

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

Classification

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

Dry Density and Moisture Content

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

Consolidation

Selected soil samples were tested to determine their consolidation potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 through C-4 in Appendix C of this report.

Maximum Dry Density and Optimum Moisture Content

One representative bulk sample has been tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557 and are presented on Plate C-5 in Appendix C of this report. This test is generally used to compare the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

Expansion Index

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

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

Sample Identification	Expansion Index	Expansive Potential
B-3 @ 0 to 5 feet	33	Low
B-4 @ 0 to 5 feet	21	Low

Soluble Sulfates

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

Sample Identification	Soluble Sulfates (%)	Sulfate Classification
B-3 @ 0 to 5 feet	0.002	Not Applicable (S0)

Corrosivity Testing

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

Sample Identification	Saturated Resistivity (ohm-cm)	pH	Chlorides (mg/kg)	Nitrates (mg/kg)
B-3 @ 0 to 5 feet	4,000	7.6	4.5	9.4

Grain Size Analysis

Limited grain size analyses have been performed on several selected samples, in accordance with ASTM D-1140. These samples were washed over a #200 sieve to determine the percentage of fine-grained material in each sample, which is defined as the material which passes the #200 sieve. The weight of the portion of the sample retained on each screen is recorded and the percentage finer or coarser of the total weight is calculated. The results of these laboratory tests are shown on the attached Boring Logs.

6.0 CONCLUSIONS AND RECOMMENDATIONS

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

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

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

6.1 Seismic Design Considerations

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

Faulting and Seismicity

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

The potential for other geologic hazards such as seismically induced settlement, lateral spreading, tsunamis, inundation, seiches, flooding, and subsidence affecting the site is considered low. Based on Map Number 06065C0745G, dated August 28, 2008, prepared by FEMA Flood Maps, the project site is in an area designated as Zone X which is determined to be outside the 0.2% annual chance floodplain.

Seismic Design Parameters

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

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

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

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S_1 value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." **Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.4.8 applies to the proposed structure at this site. However, the structural engineer should verify that this exception is applicable to the proposed structure.** Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients (F_a and F_v) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	1.500
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.600
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.500
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.020
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.000
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.680

It should be noted that the site coefficient F_v and the parameters S_{M1} and S_{D1} were not included in the SEAOC/OSHPD Seismic Design Maps Tool output for the ASCE 7-16. We calculated these parameters-based on Table 11.4-2 in Section 11.4.4 of ASCE 7-16 using the value of S_1 obtained from the Seismic Design Maps Tool, assuming that a site-specific ground motion hazards analysis is not required for the proposed building at this site.

Ground Motion Parameters

For the purposes of the liquefaction analysis performed for this study, we utilized a site acceleration consistent with maximum considered earthquake ground motions, as required by the 2019 CBC. The peak ground acceleration (PGA) was determined in accordance with Section 11.8.3 of ASCE 7-16. The parameter PGA_M is the maximum considered earthquake geometric mean (MCE_G) PGA, multiplied by the appropriate site coefficient from Table 11.8-1 of ASCE 7-16. The web-based software application SEAOC/OSHPD Seismic Design Maps Tool (described in the previous section) was used to determine PGA_M, which is 0.622g. A portion of the program output is included as Plate E-1 of this report. An associated earthquake magnitude was obtained from the USGS Unified Hazard Tool, Interactive Deaggregation application available on the USGS website. The deaggregated mean magnitude is 6.94, based on the peak ground acceleration and soil classification D.

Liquefaction

The Riverside County GIS website indicates that the site is located in a designated high to moderate liquefaction susceptibility. Therefore, the scope of this investigation included a detailed liquefaction evaluation in order to determine the site-specific liquefaction potential.

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

The liquefaction analysis was conducted in accordance with the requirements of Special Publication 117A (CDMG, 2008), and currently accepted practice (SCEC, 1997). The liquefaction potential of the subject site was evaluated using the empirical method developed by Boulanger and Idriss (Boulanger and Idriss, 2008, 2014). This method predicts the earthquake-induced liquefaction potential of the site based on a given design earthquake magnitude and peak ground acceleration at the subject site. This procedure essentially compares the cyclic resistance ratio (CRR) [the cyclic stress ratio required to induce liquefaction for a cohesionless soil stratum at a given depth] with the earthquake-induced cyclic stress ratio (CSR) at that depth from a specified design earthquake (defined by a peak ground surface acceleration and an associated earthquake moment magnitude). CRR is determined as a function of the corrected SPT N-value $(N_1)_{60\text{-}cs}$,

adjusted for fines content. The factor of safety against liquefaction is defined as CRR/CSR. Based on Special Publication 117A, a factor of safety of at least 1.3 is required in order to demonstrate that a given soil stratum is non-liquefiable. Additionally, in accordance with Special Publication 117A, clayey soils which do not meet the criteria for liquefiable soils defined by Bray and Sancio (2006), loose soils with a plasticity index (PI) less than 12 and moisture content greater than 85% of the liquid limit, are considered to be insusceptible to liquefaction. Non-sensitive soils with a PI greater than 18 are also considered non-liquefiable.

The liquefaction analysis procedure is tabulated on the spreadsheet forms included in Appendix F of this report. The liquefaction analysis was performed for Boring Nos. B-1 and B-4, which were advanced to depths of 50± feet. The liquefaction potential was analyzed at the boring locations utilizing a PGA_M of 0.622g related to a 6.94 magnitude seismic event. The liquefaction evaluation was performed using the reported historic high groundwater depth of 14 feet.

If liquefiable soils are identified, the potential settlements that could occur as a result of liquefaction are determined using the equation for volumetric strain due to post-cyclic reconsolidation (Yoshimine et. al, 2006). This procedure uses an empirical relationship between the induced cyclic shear strain and the corrected N-value to determine the expected volumetric strain of saturated sands subjected to earthquake shaking. This analysis is also documented on the spreadsheets included in Appendix F.

Conclusions and Recommendations

The results of the liquefaction analysis identified no potentially liquefiable soils at the site. The soils present below the historic groundwater table possess factors of safety in excess of 1.3 and are therefore considered non-liquefiable. Based on the results of this analysis, no design considerations related to liquefaction are considered warranted for this project.

6.2 Geotechnical Design Considerations

General

Artificial fill soils were encountered beneath the pavements at all of the boring locations, extending to depths of 4½ to 5½± feet below the existing site grades. Based on a lack of documentation regarding the placement and compaction of the existing fill materials, these soils are considered to consist of undocumented fill, and are not suitable for the support of the foundation loads of the proposed structure. Additionally, it is anticipated that demolition of the existing structure and associated improvements will cause disturbance of the upper 4 to 5± feet of soil. However, deeper excavations will be necessary if the existing structure and/or AST's are supported on deep foundations. Therefore, remedial grading will be necessary to remove all of the undocumented fill soils in their entirety, the upper portion of the near-surface native alluvial soils, and any soils disturbed during the demolition process, and replace these materials as compacted structural fill soils.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils and a portion of the near-surface native alluvial soils and replace these materials as compacted structural fill. The native soils that will remain in place below the recommended depth of overexcavation will not be subject to significant stress increases from the foundations of the new structure. Provided that the recommended remedial grading is completed, the post-construction static settlements of the proposed structure are expected to be less than 1.0 and 0.5 inches for total and differential settlements of shallow foundations, respectively.

Expansion

Laboratory testing performed on representative samples of the near-surface soils indicates that these materials possess a low expansion potential (EI = 21 and 33). Based on the presence of expansive soils at this site, care should be given to proper moisture conditioning of all building pad subgrade soils to a moisture content of 2 to 4 percent above the ASTM D-1557 optimum during site grading. In addition to adequately moisture conditioning the subgrade soils and fill soils during grading, special care must be taken to maintaining moisture content of these soils at 2 to 4 percent above the optimum moisture content. This will require the contractor to frequently moisture condition these soils throughout the grading process, unless grading occurs during a period of relatively wet weather.

Soluble Sulfates

The result of the soluble sulfate testing indicates that the tested soil sample possesses a level of soluble sulfates that is considered to be "not applicable" (S0) with respect to the American Concrete Institute (ACI) Publication 318-14 Building Code Requirements for Structural Concrete and Commentary, Section 4.3. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at pad grade within the building area.

Corrosion Potential

The results of laboratory testing indicate that the on-site soils possess a saturated resistivity of 4,000 ohm-cm, and a pH value of 7.6. These test results have been evaluated in accordance with guidelines published by the Ductile Iron Pipe Research Association (DIPRA). The DIPRA guidelines consist of a point system by which characteristics of the soils are used to quantify the corrosivity characteristics of the site. Resistivity and pH are two of the five factors that enter into the evaluation procedure. Redox potential, relative soil moisture content and sulfides are also included. Although sulfide testing was not part of the scope of services for this project, we have evaluated the corrosivity characteristics of the on-site soils using resistivity, pH and moisture content. Based on these factors, and utilizing the DIPRA procedure, the on-site soils are not considered to be corrosive to ferrous pipes. Therefore, corrosion protection is not expected to be required for cast iron or ductile iron pipes.

Based on American Concrete Institute (ACI) Publication 318 Building Code Requirements for Structural Concrete and Commentary, reinforced concrete that is exposed to external sources of

chlorides requires corrosion protection for the steel reinforcement contained within the concrete. ACI 318 defines concrete exposed to moisture and an external source of chlorides as "severe" or exposure category C2. ACI 318 does not clearly define a specific chloride concentration at which contact with the adjacent soil will constitute a "C2" or severe exposure. However, the Caltrans Memo to Designers 10-5, Protection of Reinforcement Against Corrosion Due to Chlorides, Acids and Sulfates, dated June 2010, indicates that soils possessing chloride concentrations greater than 500 mg/kg are considered to be corrosive to reinforced concrete. The results of the laboratory testing indicate chloride concentrations of 4.5 mg/kg. Although the soils contain some chlorides, we do not expect that the chloride concentrations of the tested soils are high enough to constitute a "severe" or C2 chloride exposure. Therefore, a chloride exposure category of C1 is considered appropriate for this site.

Nitrates present in soil can be corrosive to copper tubing at concentrations greater than 50 mg/kg. The tested sample possesses a nitrate concentration of 9.4 mg/kg. Based on this test result, the on-site soils are not considered to be corrosive to copper pipe.

Since SCG does not practice in the area of corrosion engineering, we recommend that the client contact a corrosion engineer to provide a more thorough evaluation of these test results.

Shrinkage/Subsidence

Removal and recompaction of the near-surface existing soils is estimated to result in an average shrinkage of 3 to 13 percent. However, shrinkage estimates for the individual samples range between 1 and 16 percent based on the results of density testing and the assumption that the onsite soils will be compacted to about 92 percent of the ASTM D-1557 maximum dry density. It should be noted that the shrinkage estimate is based on the results of dry density testing performed on small-diameter samples of the existing soils taken at the boring locations. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test-pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal, due to settlement and machinery working. The subsidence is estimated to be 0.15 feet. This estimate may be used for grading in areas that are underlain by native alluvial soils.

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

Grading and Foundation Plan Review

Grading and foundation plans were not available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary grading and foundation plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

The grading recommendations presented below are based on the subsurface conditions encountered at the boring locations and our understanding of the proposed development. We recommend that all grading activities be completed in accordance with the Grading Guide Specifications included as Appendix D of this report, unless superseded by site-specific recommendations presented below.

Site Stripping and Demolition

Demolition of the existing structure, pavements and any associated improvements will be necessary to facilitate the construction of the proposed development. Demolition of the existing structure should include all foundations, floor slab, and any associated utilities. Any septic systems encountered during demolition and/or grading (if present) should be removed in their entirety. Any associated leach fields or other existing underground improvements should also be removed in their entirety. Debris resultant from demolition should be disposed of off-site. All applicable federal, state and local specifications and regulations should be followed in demolition, abandonment, and disposal of the resulting debris. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site sands, and incorporated into new structural fills or it may be crushed and made into crushed miscellaneous base (CMB), if desired.

As previously mentioned, a Petromat geotextile material was observed between the AC and base sections at two of the boring locations. The client may wish to contact a demolition contractor to provide a more thorough evaluation of the existing pavements.

Detailed structural information regarding the existing building or AST's have not been provided to our office. Therefore, the foundation systems supporting these structures are generally unknown by SCG. We expect that the existing structures are supported on conventional shallow foundations. However, if the existing structures are supported on deep foundations, any existing piles or drilled piers located within the proposed building area should be cut off at a depth of at least 2 feet below the bottom of the planned overexcavation. Where drilled pier or pile foundations are encountered within proposed pavement areas, they should be cut off at a depth of at least 2 feet below the proposed pavement subgrade or at a depth of at least 1 foot below the bottom of any planned utilities.

Initial site stripping should also include removal of any surficial vegetation from the unpaved areas of the site. This should include any weeds, grasses, shrubs, and trees. Root systems associated with the trees should be removed in their entirety, and the resultant excavations should be backfilled with compacted structural fill soils. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered. These materials should be disposed of off-site.

Treatment of Existing Soils: Building Pad

Remedial grading should be performed within the proposed building area in order to remove the existing undocumented fill soils, any soils disturbed during demolition, and the upper portion of

the near-surface native alluvium. Undocumented fill soils were encountered at most of the boring locations, extending to depths of 4½ to 5½± feet below the existing site grades. Based on conditions encountered at the boring locations, the existing soils within the proposed building area are recommended to be overexcavated to a depth of at least 3 feet below existing grades and to a depth of at least 3 feet below proposed building pad subgrade elevation, whichever is greater. Within the influence zones of the new foundations, the overexcavation should extend to a depth of at least 2 feet below proposed foundation bearing grade.

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

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

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches and moisture conditioned or air dried to achieve a moisture content of 2 to 4 percent above optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The building pad area may then be raised to grade with previously excavated soils or imported structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

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

If the full lateral recommended remedial grading cannot be completed for the proposed retaining walls and site walls located along property lines, the foundations for those walls should be designed using a reduced allowable bearing pressure. Furthermore, the contractor should take necessary precautions to protect the adjacent improvements during rough grading. Specialized grading techniques, such as A-B-C slot cuts or temporary shoring, will likely be required during

remedial grading. The geotechnical engineer of record should be contacted if additional recommendations, such as shoring design recommendations, are required during grading.

Treatment of Existing Soils: Flatwork, Parking and Drive Areas

Based on economic considerations, overexcavation of the existing near-surface existing soils in the new parking and drive areas is not considered warranted, with the exception of areas where lower strength or unstable soils are identified by the geotechnical engineer during grading. Subgrade preparation in the new parking and drive areas should initially consist of removal of all soils disturbed during stripping and demolition operations.

The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. Any such materials should be removed to a level of firm and unyielding soil. The exposed subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 2 to 4 percent above the optimum moisture content, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of variable strength surficial soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within these areas. The grading recommendations presented above do not mitigate the extent of undocumented fill in the parking and drive areas. As such, some settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the parking and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

Treatment of Existing Soils: Flatwork Areas

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

As noted previously, the subject site is underlain by low expansive soils. Support of new flatwork on low expansive soils carries additional risk with respect to flatwork movement and potential distress. This report provides recommendations for moisture conditioning and additional steel reinforcement in the flatwork areas in order to minimize the potential effects of the expansive soils. However, if additional protection is desired, the client should consider the placement of a 2-foot thick layer of non-expansive soil beneath all flatwork.

Fill Placement

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

Imported Structural Fill

All imported structural fill should consist of very low expansive (EI < 20), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve). Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

Utility Trench Backfill

In general, all utility trench backfill should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. As an alternative, a clean sand (minimum Sand Equivalent of 30) may be placed within trenches and compacted in place (jetting or flooding is not recommended). It is recommended that materials in excess of 3 inches in size not be used for utility trench backfill. Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by the city of Moreno Valley. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

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

Any soils used to backfill voids around subsurface utility structures, such as manholes or vaults, should be placed as compacted structural fill. If it is not practical to place compacted fill in these areas, then such void spaces may be backfilled with lean concrete slurry. Uncompacted pea gravel or sand is not recommended for backfilling these voids since these materials have a potential to settle and thereby cause distress of pavements placed around these subterranean structures.

6.4 Construction Considerations

Excavation Considerations

The near-surface soils generally consist of moderate strength silty sands, sandy silts, silty clays and sandy clays. Some of these materials may be subject to minor to moderate caving within shallow excavations. Where caving does occur, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 2h:1v. In addition, the inclination of temporary slopes should not exceed 1.5h:1v within clayey soils. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

Moisture Sensitive Subgrade Soils

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

If the construction schedule dictates that site grading will occur during a period of wet weather, allowances should be made for costs and delays associated with drying the on-site soils or import of a drier, less moisture sensitive fill material. Grading during wet or cool weather may also increase the depth of overexcavation in the pad areas as well as the need for a stabilization layer.

Expansive Soils

The near-surface soils within the subject site have been determined to possess a low expansion potential. Therefore, care should be given to proper moisture conditioning of all subgrade soils to a moisture content of 2 to 4 percent above the Modified Proctor optimum during site grading. All imported fill soils should have very low expansive (EI < 20) characteristics. **In addition to adequately moisture conditioning the subgrade soils and fill soils during grading, special care must be taken to maintain the moisture content of these soils at 2 to 4 percent above the Modified Proctor optimum. This will require the contractor to frequently moisture condition these soils throughout the grading process, unless grading occurs during a period of relatively wet weather**.

Due to the presence of expansive soils at this site, provisions should be made to limit the potential for surface water to penetrate the soils immediately adjacent to the new structure. These provisions should include directing surface runoff into rain gutters and area drains, reducing the extent of landscaped areas around the structure, and sloping the ground surface away from the building. Where possible, it is recommended that landscaped planters not be located immediately adjacent to the proposed building. If landscaped planters around the building are necessary, it is recommended that drought tolerant plants or a drip irrigation system be utilized, to minimize the

potential for deep moisture penetration around the structure. Presented below is a list of additional soil moisture control recommendations that should be considered by the owner, developer, and civil engineer:

- Ponding and areas of low flow gradients in unpaved walkways, grass and planter areas should be avoided. In general, minimum drainage gradients of 2 percent should be maintained in unpaved areas.
- Bare soil within five feet of proposed structure should be sloped at a minimum five percent gradient away from the structure (about three inches of fall in five feet), or the same area could be paved with a minimum surface gradient of one percent. Pavement is preferable.
- Decorative gravel ground cover tends to provide a reservoir for surface water and may hide areas of ponding or poor drainage. Decorative gravel is, therefore, not recommended and should not be utilized for landscaping unless equipped with a subsurface drainage system designed by a licensed landscape architect.
- Positive drainage devices, such as graded swales, paved ditches, and catch basins should be installed at appropriate locations within the area of proposed development.
- Concrete walks and flatwork should not obstruct the free flow of surface water to the appropriate drainage devices.
- Area drains should be recessed below grade to allow free flow of water into the drain. Concrete or brick flatwork joints should be sealed with mortar or flexible mastic.
- Gutter and downspout systems should be installed to capture all discharge from roof areas. Downspouts should discharge directly into a pipe or paved surface system to be conveyed off-site.
- Enclosed planters adjoining, or in close proximity to the proposed structure, should be sealed at the bottom and provided with subsurface collection systems and outlet pipes.
- Depressed planters should be raised with soil to promote runoff (minimum drainage gradient two percent or five percent, see above), and/or equipped with area drains to eliminate ponding.
- Drainage outfall locations should be selected to avoid erosion of slopes and/or properly armored to prevent erosion of graded surfaces. No drainage should be directed over or towards adjoining slopes.
- All drainage devices should be maintained on a regular basis, including frequent observations during the rainy season to keep the drains free of leaves, soil and other debris.
- Landscape irrigation should conform to the recommendations of the landscape architect and should be performed judiciously to preclude either soaking or excessive drying of the foundation soils. This should entail regular watering during the drier portions of the year and little or no irrigation during the rainy season. Automatic sprinkler systems should, therefore, be switched to manual operation during the rainy season. Good irrigation practice typically requires frequent application of limited quantities of water that are sufficient to sustain plant growth, but do not excessively wet the soils. Ponding and/or run-off of irrigation water are indications of excessive watering.

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

Groundwater

The historic groundwater table at this site is considered to exist at a depth greater than 14± feet. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pad will be underlain by structural fill soils used to replace existing undocumented fill soils and the upper portion of the near-surface native alluvium. These new structural fill soils are expected to extend to depths of at least 2 feet below proposed foundation bearing grade, underlain by 1± foot of additional soil that has been densified and moisture conditioned in place. Based on this subsurface profile, the proposed structure may be supported on conventional shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 2,500 lbs/ft^2.
- Maximum, net allowable soil bearing pressure: 1,500 lbs/ft^2 if the full recommended lateral extent of remedial grading cannot be achieved, typically for new footings along the property lines
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Four (4) No. 5 rebars (2 top and 2 bottom).
- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.
- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressures presented above may be increased by one-third when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on geotechnical considerations; additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

The foundation subgrade soils should be evaluated at the time of overexcavation, as discussed in Section 6.3 of this report. It is further recommended that the foundation subgrade soils be evaluated by the geotechnical engineer immediately prior to steel or concrete placement. Soils suitable for direct foundation support should consist of newly placed structural fill, compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Any unsuitable materials should be removed to a depth of suitable bearing compacted structural fill or suitable native alluvium (where reduced bearing pressures are utilized), with the resulting excavations backfilled with

compacted fill soils. As an alternative, lean concrete slurry (500 to 1,500 psi) may be used to backfill such isolated overexcavations.

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

Estimated Foundation Settlements

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

Lateral Load Resistance

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

- Passive Earth Pressure: 275 lbs/ft^3
- Friction Coefficient: 0.28

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

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slab should be prepared in accordance with the recommendations contained in the ***Site Grading Recommendations*** section of this report. Based on the anticipated grading which will occur at this site, the floor of the proposed structure may be constructed as conventional slab-on-grade supported on newly placed structural fill, extending to a depth of at least 3 feet below finished pad grade. Based on geotechnical considerations, the floor slab may be designed as follows:

- Minimum slab thickness: 6 inches.

- Modulus of Subgrade Reaction: 100 psi/in.

- Minimum slab reinforcement: No. 3 bars at 18-inches on-center, in both directions, due to presence of low expansive soils. The actual floor slab reinforcement should be determined by the structural engineer, based upon the imposed loading.

- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire slab area where such moisture sensitive floor coverings are expected. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as 15 mil Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.

- Moisture condition the floor slab subgrade soils to 2 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

- The floor slab should be structurally connected to the foundations as detailed by the structural engineer.

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

6.7 Exterior Flatwork Design and Construction

Subgrades which will support new exterior slabs-on-grade for sidewalks, patios, and other concrete flatwork, should be prepared in accordance with the recommendations contained in the ***Grading Recommendations*** section of this report. Based on geotechnical considerations, exterior slabs on grade may be designed as follows:

- Minimum slab thickness: 4½ inches.

- Minimum slab reinforcement: No. 3 bars at 18 inches on center, in both directions.

- The flatwork at building entry areas should be structurally connected to the perimeter foundation that is recommended to span across the door opening. This recommendation is designed to reduce the potential for differential movement at this joint.

- Moisture condition the slab subgrade soils to at least 2 to 4 percent of optimum moisture content, to a depth of at least 12 inches. Adequate moisture conditioning should be verified by the geotechnical engineer 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

- Control joints should be provided at a maximum spacing of 8 feet on center in two directions for slabs and at 6 feet on center for sidewalks. Control joints are intended to direct cracking. Minor cracking of exterior concrete slabs on grade should be expected.

Expansion or felt joints should be used at the interface of exterior slabs on grade and any fixed structures to permit relative movement.

6.8 Retaining Wall Design and Construction

Based on the conceptual grading plan, retaining walls greater than 6 feet in height will be required to facilitate the new site grades. Retaining walls are also expected within the truck dock area of the proposed building. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring locations, the following parameters may be used in the design of new retaining walls for this site. The following parameters assume that only the on-site soils will be utilized for retaining wall backfill. The near-surface soils generally consist of silty sands and clayey sands, with occasional silty clays, sandy clays and clayey silts. Based on the results of laboratory testing, the on-site silty sands and clayey sands possess a friction angle of 30 degrees when compacted to at least 90 percent of the ASTM D-1557 maximum dry density. It is recommended that clays and clayey silts be excluded from use as retaining wall backfill.

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

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type
		On-Site Silty Sands and Clayey Sands
Internal Friction Angle (ϕ)		30°
Unit Weight		132 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	44 lbs/ft^3
	Active Condition (2h:1v backfill)	71 lbs/ft^3
	At-Rest Condition (level backfill)	66 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction of 0.28 and an equivalent passive pressure of 275 lbs/ft^3. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

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

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

Retaining Wall Foundation Design

The retaining wall foundations should be underlain by at least 2 feet of newly placed structural fill. Foundations to support new retaining walls should be designed in accordance with the general Foundation Design Parameters presented in a previous section of this report.

Seismic Lateral Earth Pressures

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

Backfill Material

On-site soils may be used to backfill the retaining walls, provided that they are very low expansive (EI < 20) sandy soils. All backfill material placed within 3 feet of the back wall-face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

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

All retaining wall backfill should be placed and compacted under engineering controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

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

- A weep hole drainage system typically consisting of a series of 2-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 10-foot on-center spacing. Alternatively, 4-inch diameter holes at an approximate 20-foot on-center spacing can be used for this type of drainage system. In addition, the weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system. The actual design of this type of system should be determined by the civil engineer to verify that the drainage system possesses the adequate capacity and slope for its intended use.

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

6.9 Pavement Design Parameters

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

designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The near surface soils generally consist of silty sands and clayey sands, with occasional silty clays, sandy clays, and clayey silts. These soils are generally considered to possess fair pavement support characteristics with estimated R-values of 30 to 40. R-value testing was outside the scope of services. The subsequent pavement design is therefore based upon an assumed R-value of 30. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It is recommended that R-value testing be performed after completion of rough grading. Depending upon the results of the R-value testing, it may be feasible to use thinner pavement sections in some areas of the site.

Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20-year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35
9.0	93

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

ASPHALT PAVEMENTS (R = 30)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	6	8	10	11	13
Compacted Subgrade	12	12	12	12	12

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

Portland Cement Concrete

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

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

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

7.0 GENERAL COMMENTS

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

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

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

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

8.0 REFERENCES

California Division of Mines and Geology (CDMG), "Guidelines for Evaluating and Mitigating Seismic Hazards in California," State of California, Department of Conservation, Division of Mines and Geology, Special Publication 117A, 2008.

Idriss, I. M. and Boulanger, R. W., "Soil Liquefaction During Earthquakes," Earthquake Engineering Research Institute, 2008.

Idriss, I. M. and Boulanger, R. W., "SPT-Based Liquefaction Triggering Procedures," Earthquake Engineering Research Institute, 2010.

Boulanger, R. W. and Idriss, I. M., "CPT and SPT Based Liquefaction Triggering Procedures," Earthquake Engineering Research Institute, 2014.

National Research Council (NRC), "Liquefaction of Soils During Earthquakes," Committee on Earthquake Engineering, National Research Council, Washington D. C., Report No. CETS-EE-001, 1985.

Seed, H. B., and Idriss, I. M., "Simplified Procedure for Evaluating Soil Liquefaction Potential using field Performance Data," Journal of the Soil Mechanics and Foundations Division, American Society of Civil Engineers, September 1971, pp. 1249-1273.

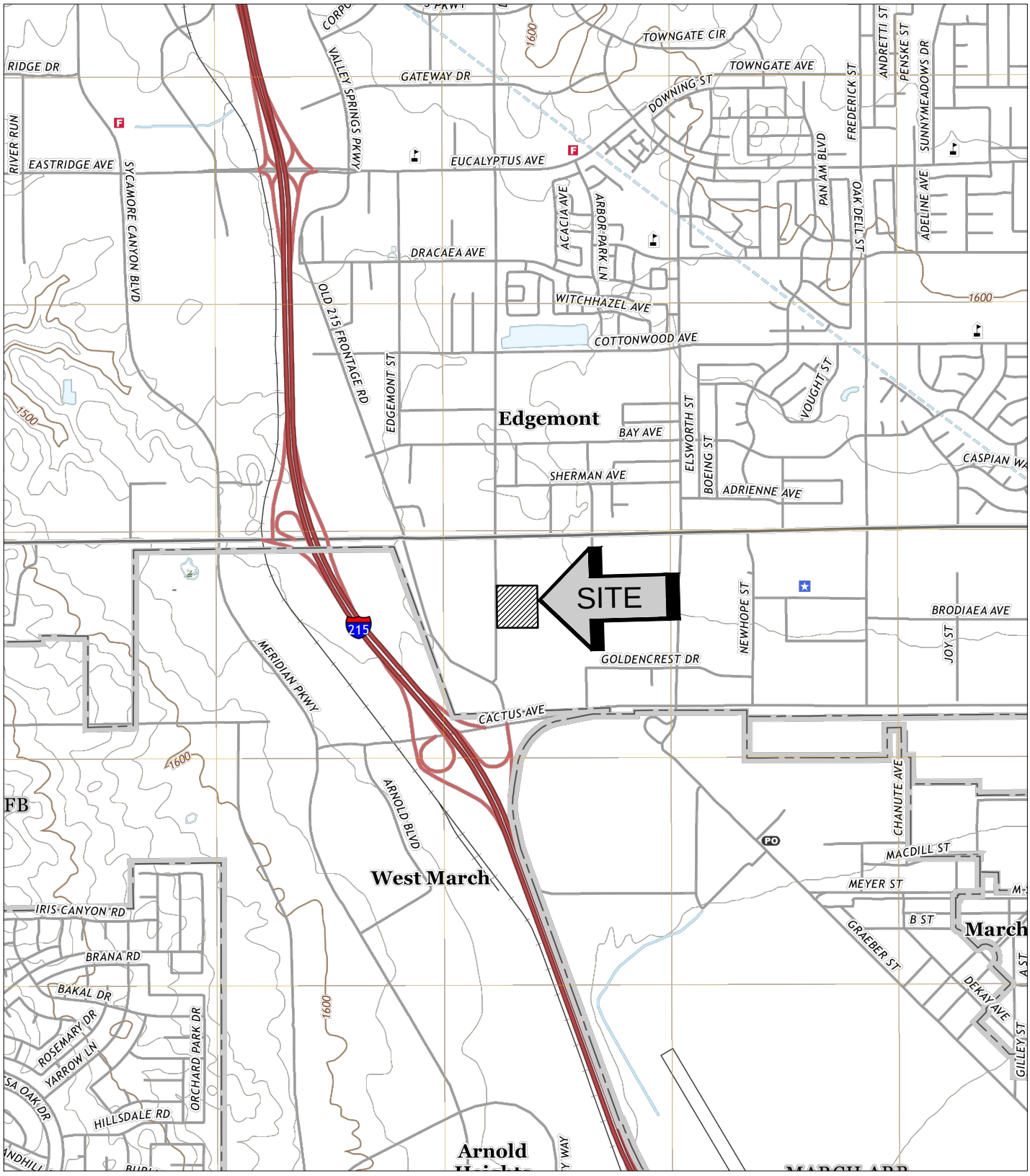
Southern California Earthquake Center (SCEC), University of Southern California, "Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California," Committee formed 1997.

Tokimatsu K., and Seed, H. B., "Evaluation of Settlements in Sands Due to Earthquake Shaking," Journal of the Geotechnical Engineering Division, American society of Civil Engineers, Volume 113, No. 8, August 1987, pp. 861-878.

Tokimatsu, K. and Yoshimi, Y., "*Empirical Correlations of Soil Liquefaction Based on SPT N-value and Fines Content,"* Seismological Research Letters, Eastern Section Seismological Society Of America, Volume 63, Number 1, p. 73.

Youd, T. L. and Idriss, I. M. (Editors), "Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils," Salt Lake City, UT, January 5-6 1996, NCEER Technical Report NCEER-97-0022, Buffalo, NY.

APPENDIX A



SOURCE: USGS TOPOGRAPHIC MAP OF THE RIVERSIDE EAST QUADRANGLE, RIVERSIDE COUNTY, CALIFORNIA, 2018.

SITE LOCATION MAP

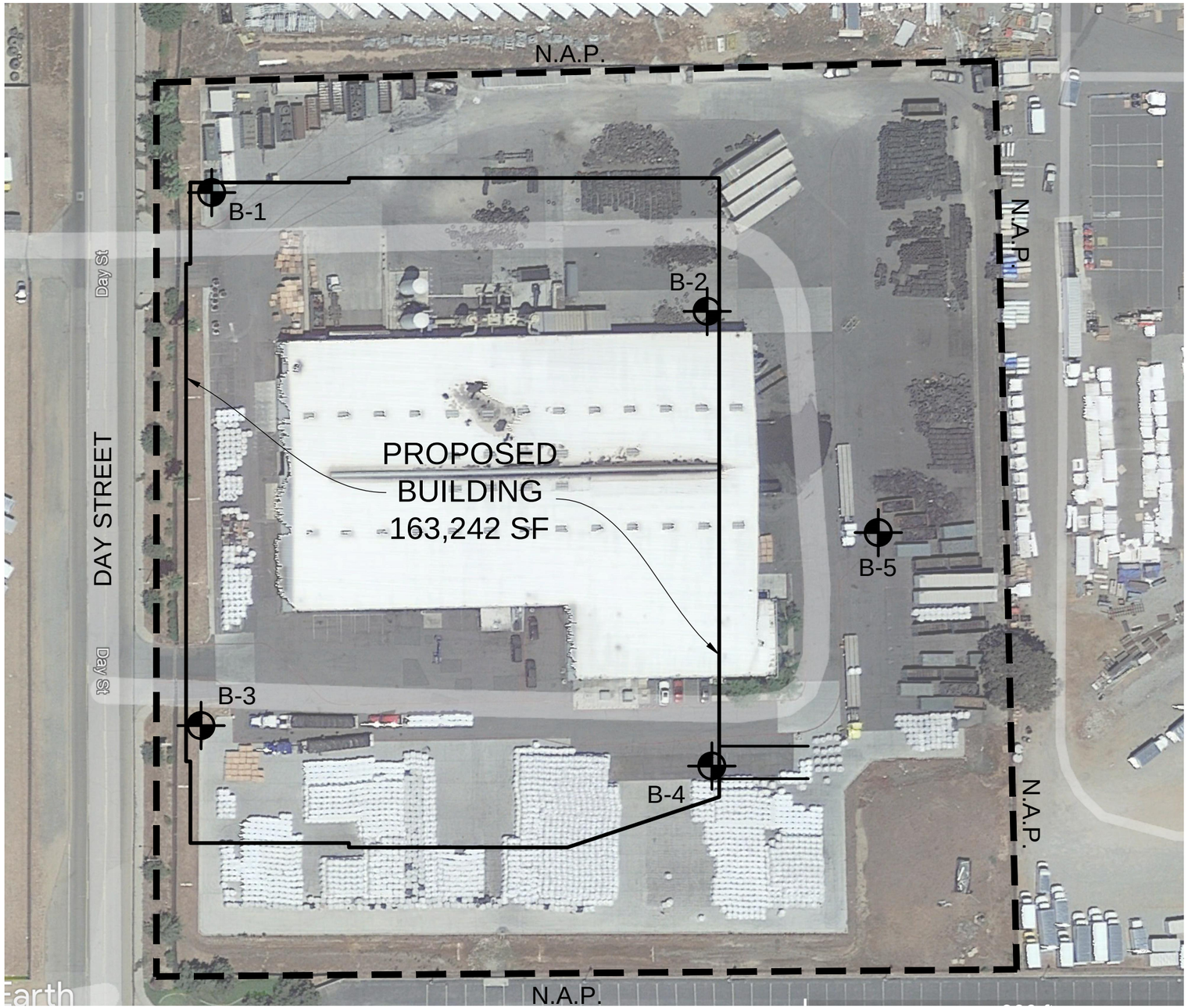
PROPOSED WAREHOUSE

MORENO VALLEY, CALIFORNIA

SCALE: 1" = 2000'	
DRAWN: JLL CHKD: RGT	
SCG PROJECT 21G291-1	
PLATE 1	

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



NORTH
SoCalGeo

GEOTECHNICAL LEGEND

APPROXIMATE BORING LOCATION

NOTE: PRELIMINARY SITE PLAN PREPARED BY RGA.
AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH.

BORING LOCATION PLAN

PROPOSED WAREHOUSE

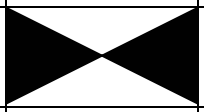
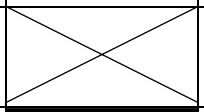
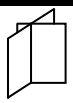
MORENO VALLEY, CALIFORNIA

SCALE: 1" = 80'	
DRAWN: JLL CHKD: RGT	
SCG PROJECT 21G291-1	
PLATE 2	

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX B

BORING LOG LEGEND

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

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

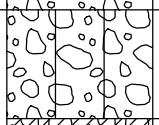
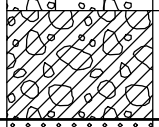
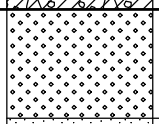
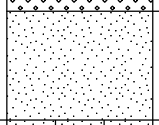
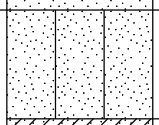
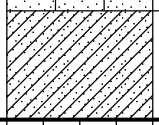
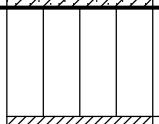
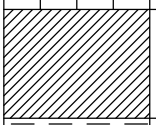
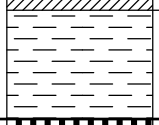
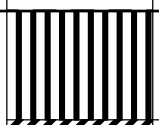
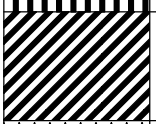
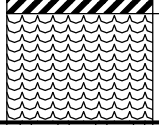
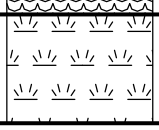
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

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

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 21G291-1
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/5/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: 21.5 feet
CAVE DEPTH: 18 feet
READING TAKEN: 3 Hrs After Completion

DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					CONCRETE: 7± inches Portland Cement Concrete, no discernible Aggregate Base							
		43			FILL: Brown Silty fine Sand, little medium Sand, trace Clay, medium dense to dense-moist to very moist		11					
		27					13					
5												
		15	4.5		ALLUVIUM: Gray Brown Silty Clay to Clayey Silt, trace to little fine Sand, very stiff-very moist		21					
		10	3.0		Brown Silty Clay, trace to little fine Sand, stiff-very moist		24					
10												
					Brown Clayey fine Sand to fine Sandy Clay, trace to little Silt, medium dense to very stiff-damp to moist							
		21	4.5				11			41		
15												
		27	3.0				13			40		
20												
					Red Brown Clayey fine to medium Sand, little Silt, dense-wet							
		30					12			36		
25												
		36			@ 30', trace Coarse Sand		15			24		

TBL 21G291-1.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG

PLATE B-1a

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 21G291-1
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/5/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: 21.5 feet
CAVE DEPTH: 18 feet
READING TAKEN: 3 Hrs After Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Red Brown Clayey fine to medium Sand, little Silt, trace coarse Sand, dense-wet							
					Brown fine to coarse Sand, little Silt, very dense-wet							
35		54					12			10		
					Brown Silty fine to coarse Sand, dense-wet							
		47					14			17		
40					Brown Clayey fine to medium Sand, trace coarse Sand, trace Silt, dense-wet		12			25		
					Brown Silty fine Sand, trace Clay, dense-wet							
		35					16			30		
					Gray Brown Clayey fine Sand, little Silt, dense-wet		15			32		
45												
					Brown Silty fine Sand, trace to little medium Sand, trace Clay, dense-wet							
		49					15			34		
50												
					Boring Terminated at 50'							

TBL 21G291-1.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG

PLATE B-1b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 21G291-1
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/6/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: Dry
CAVE DEPTH: 19 feet
READING TAKEN: At Completion

FIELD RESULTS					DESCRIPTION	LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete, 5± inches Aggregate Base							
		14			FILL: Brown Clayey fine to medium Sand, trace coarse Sand, trace Silt, loose to medium dense-moist	103	11					
		33				112	12					
					FILL: Brown Silty fine Sand, trace medium to coarse Sand, trace Clay, medium dense-moist							
5		34			ALLUVIUM: Gray Brown Silty fine to medium Sand, trace Clay, medium dense-moist to very moist	118	12					
		29			Brown Silty fine Sand, little medium Sand, trace Clay, medium dense-moist to very moist	119	14					
		25			Brown Silty fine to medium Sand, little coarse Sand, trace Clay, medium dense-moist to very moist	117	12					
10												
		11	3.0		Gray Brown Silty Clay to Clayey Silt, little fine Sand, stiff-very moist		21					
15												
					Brown fine to medium Sandy Clay, little Silt, stiff-very moist							
		11	2.5				34					
20												
					Gray Brown Silty Clay, little fine Sand, very stiff-very moist							
		15	3.0				18					
25					Boring Terminated at 25'							

TBL 21G291-1.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 21G291-1
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/6/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: Dry
CAVE DEPTH: 17 feet
READING TAKEN: At Completion

FIELD RESULTS					DESCRIPTION	LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete, 4± inches Aggregate Base							
		10			FILL: Brown Silty fine to medium Sand, trace medium Sand, little Clay, loose-moist	120	10					EI = 33 @ 0 to 5 feet
		16			FILL: Brown Silty fine Sand, trace medium Sand, trace to little Clay, medium dense-moist to very moist	116	12					
5		35			ALLUVIUM: Gray Brown Clayey fine to medium Sand, little Silt, medium dense-damp to moist	116	11					
		41				114	9					
					Brown fine to coarse Sand, trace to little Clay, trace Silt, medium dense-very moist							
		66			Red Brown Silty fine to medium Sand, little coarse Sand, little Clay, dense-very moist	111	23					
10												
					Red Brown Clayey fine to medium Sand, trace Silt, medium dense-very moist							
		32				105	17					
15												
					Gray Brown Silty fine Sand, little medium to coarse Sand, little Clay, medium dense-moist to very moist							
		29				123	11					
20					Boring Terminated at 20'							

TBL 21G291-1.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG

PLATE B-3

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 21G291-1
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/5/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: 23 feet
CAVE DEPTH: 24 feet
READING TAKEN: 3 Hrs After Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic Concrete, 5± inches Aggregate Base							
		7			FILL: Brown Clayey fine to medium Sand, little Silt, mottled, loose-very moist		16					EI = 21 @ 0 to 5 feet
		9			FILL: Brown Silty fine to medium Sand, trace to little coarse Sand, trace Clay, loose-very moist		14					
5		11	4.0		ALLUVIUM: Brown fine Sandy Clay, little medium Sand, little Silt, stiff-moist		13					
		29			Light Brown fine Sandy Silt, trace medium Sand, little Clay, medium dense-very moist		24					
10												
		42			Brown Clayey fine to medium Sand, little Silt, dense-moist		12			42		
15												
		19	3.5		Gray Brown fine Sandy Clay, little Silt, very stiff-very moist		27			61		
20												
		30			Gray Brown Silty fine Sand, little medium Sand, trace Clay, dense-wet		13			38		
25												
		28	4.0		Gray Brown Clayey fine Sand to fine Sandy Clay, little medium Sand, trace Silt, medium dense to very stiff-wet		16			46		
					Brown Silty fine Sand, trace medium Sand, medium dense-wet		15			37		

TBL 21G291-1.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG

PLATE B-4a

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 21G291-1
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/5/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: 23 feet
CAVE DEPTH: 24 feet
READING TAKEN: 3 Hrs After Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION (Continued)	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					Brown Silty fine Sand, trace medium Sand, medium dense-wet							
					Red Brown Silty fine to medium Sand, dense-wet							
35		37					13			31		
40		41					13			33		
45		44					17			34		
					Brown fine to coarse Sand, trace Silt, very dense-wet							
50		50					15			6		
					Boring Terminated at 50'							

TBL 21G291-1.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG

PLATE B-4b

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-5

JOB NO.: 21G291-1
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/6/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: Dry
CAVE DEPTH: 15 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					1± inches Asphaltic Concrete, 4± inches Aggregate Base							
		15			FILL: Gray Brown Clayey fine to medium Sand, trace to little Silt, slightly mottled, medium dense-moist to very moist		13					
		18			FILL: Gray Brown Silty fine Sand, trace Portland cement concrete fragments, medium dense-damp to moist		7					
5		35			ALLUVIUM: Red Brown Silty fine Sand, trace medium Sand, trace Clay, dense-moist		11					
		32			Brown Silty fine to medium Sand, trace to little coarse Sand, dense-moist		8					
10												
		15	2.5		Gray Brown Silty Clay, trace to little fine Sand, stiff to very stiff-very moist		32					
15												
		21			Gray Brown fine Sandy Silt, trace to little Clay, medium dense-very moist		21					
20					Boring Terminated at 20'							

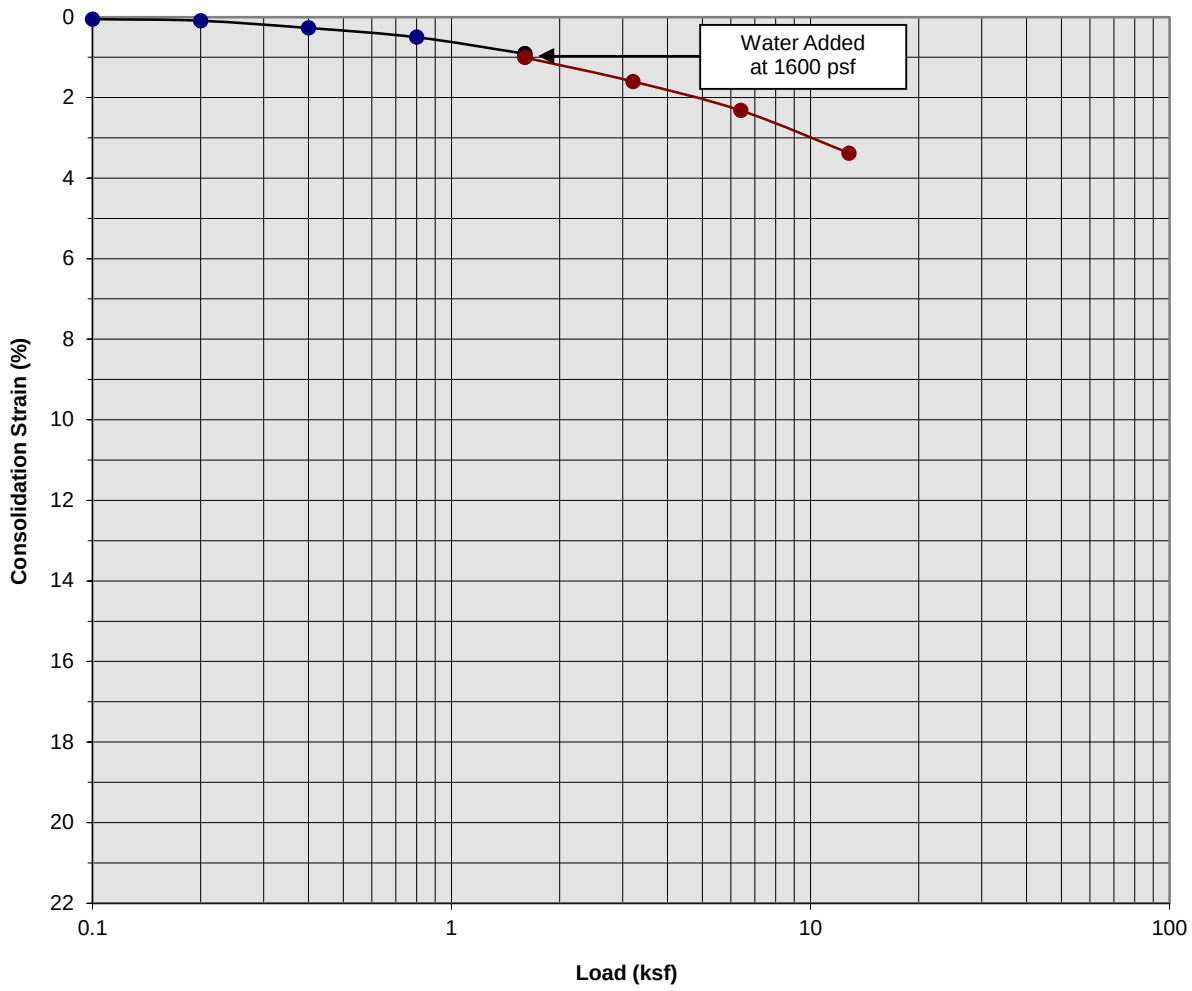
TBL 21G291-1.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG

PLATE B-5

APPENDIX C

Consolidation/Collapse Test Results



Classification: FILL: Brown Silty fine to medium Sand, trace coarse Sand, little Clay

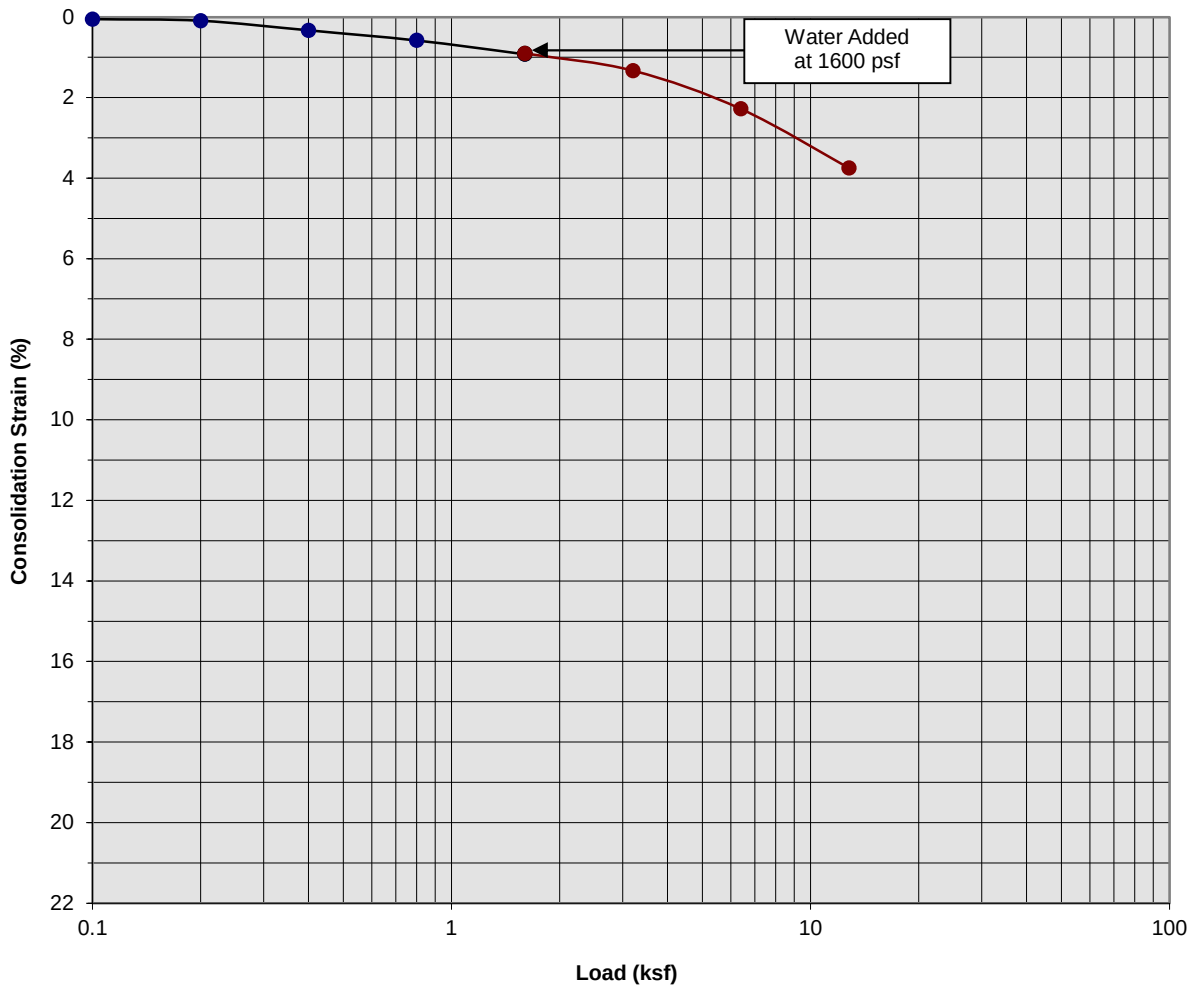
Boring Number:	B-3	Initial Moisture Content (%)	10
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	1 to 2	Initial Dry Density (pcf)	120.3
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	124.0
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.09

Proposed Warehouse
Moreno Valley, California
Project No. 21G291-1

PLATE C- 1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: FILL: Brown Silty fine Sand, trace medium Sand, trace to little Clay

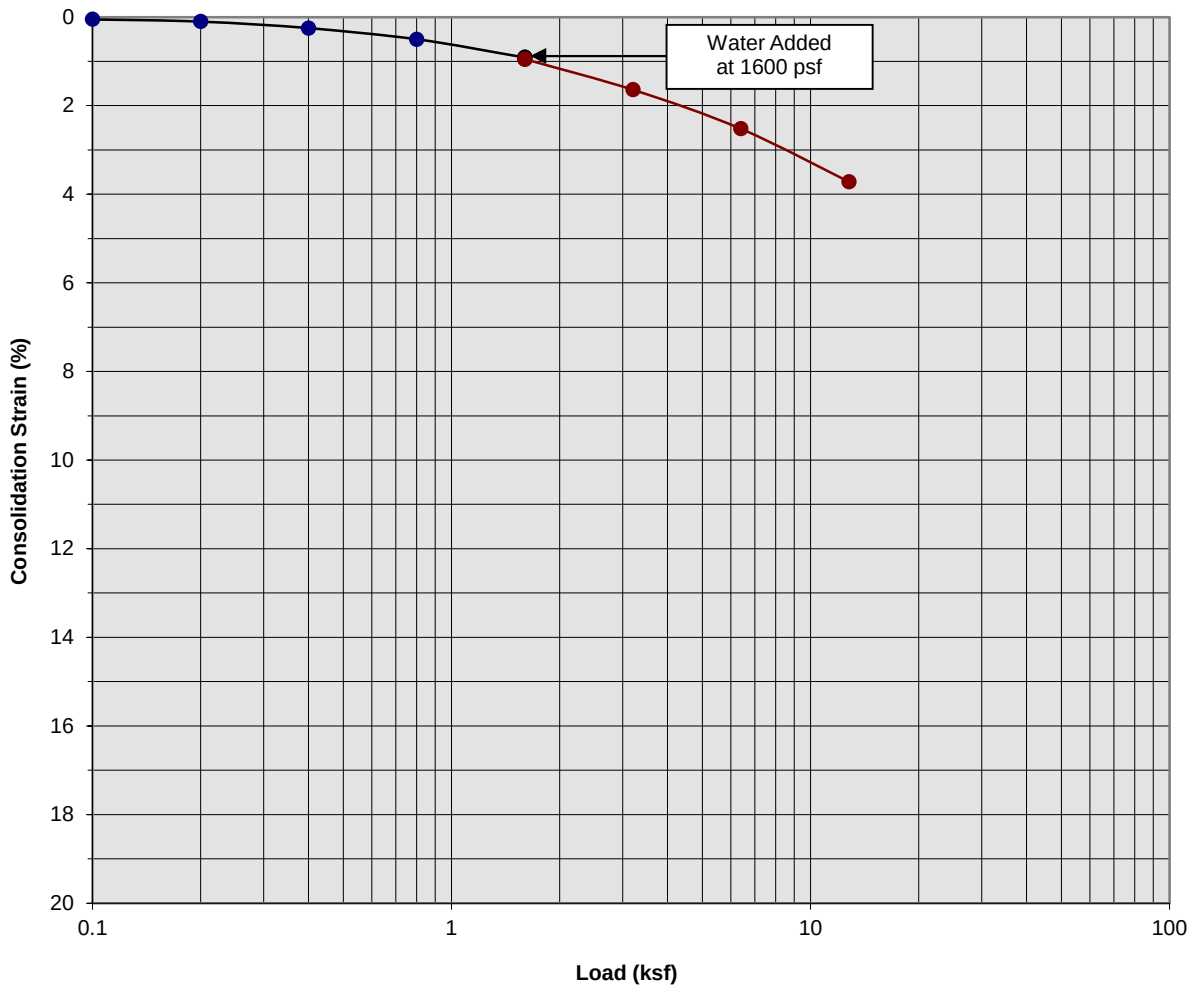
Boring Number:	B-3	Initial Moisture Content (%)	12
Sample Number:	---	Final Moisture Content (%)	15
Depth (ft)	3 to 4	Initial Dry Density (pcf)	116.4
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	120.5
Specimen Thickness (in)	1.0	Percent Collapse (%)	-0.02

Proposed Warehouse
Moreno Valley, California
Project No. 21G291-1

PLATE C- 2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Gray Brown Clayey fine to medium Sand, little Silt

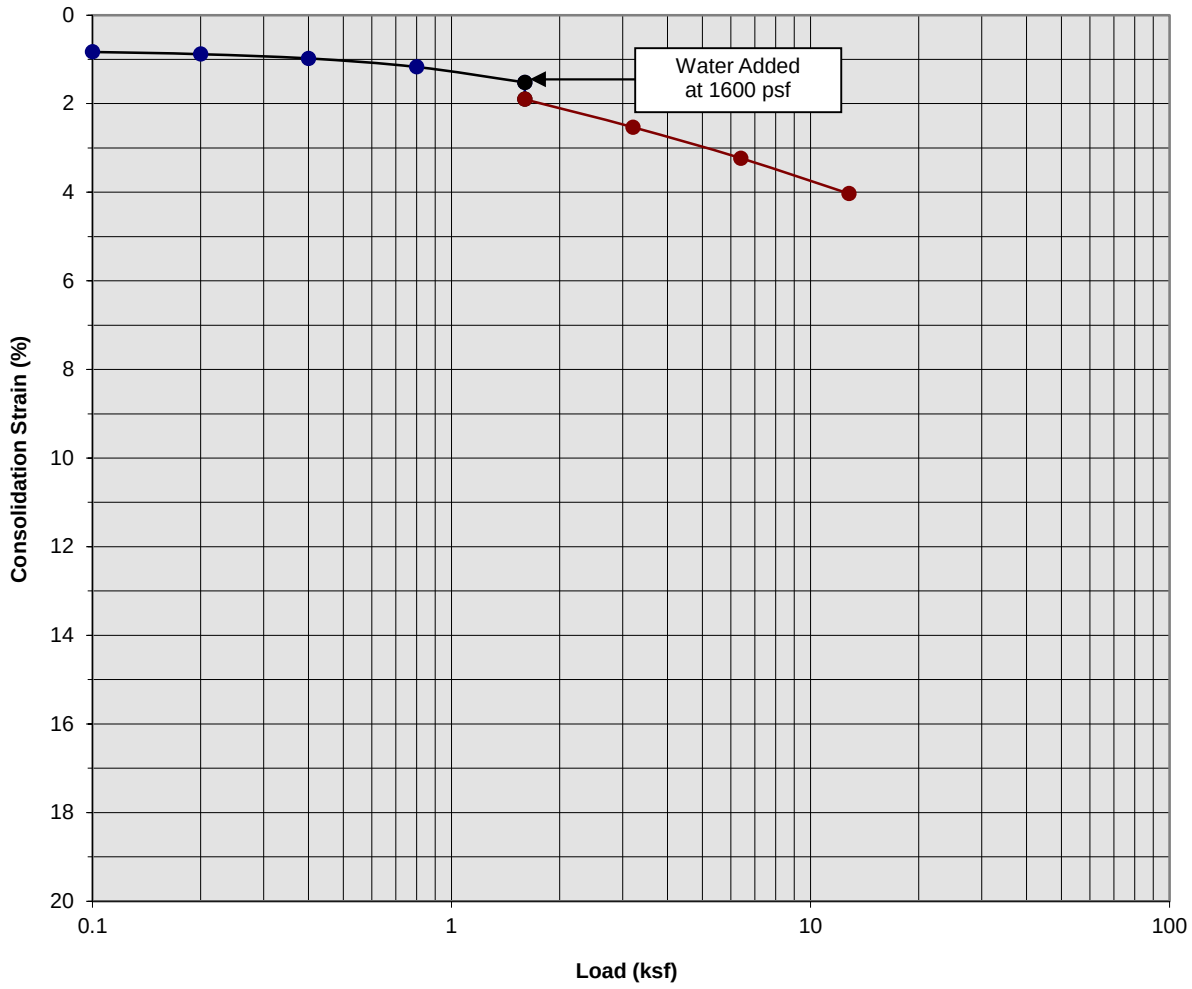
Boring Number:	B-3	Initial Moisture Content (%)	11
Sample Number:	---	Final Moisture Content (%)	18
Depth (ft)	5 to 6	Initial Dry Density (pcf)	116.1
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	119.6
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.04

Proposed Warehouse
Moreno Valley, California
Project No. 21G291-1

PLATE C- 3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: Brown fine to coarse Sand, trace to little Clay, trace Silt

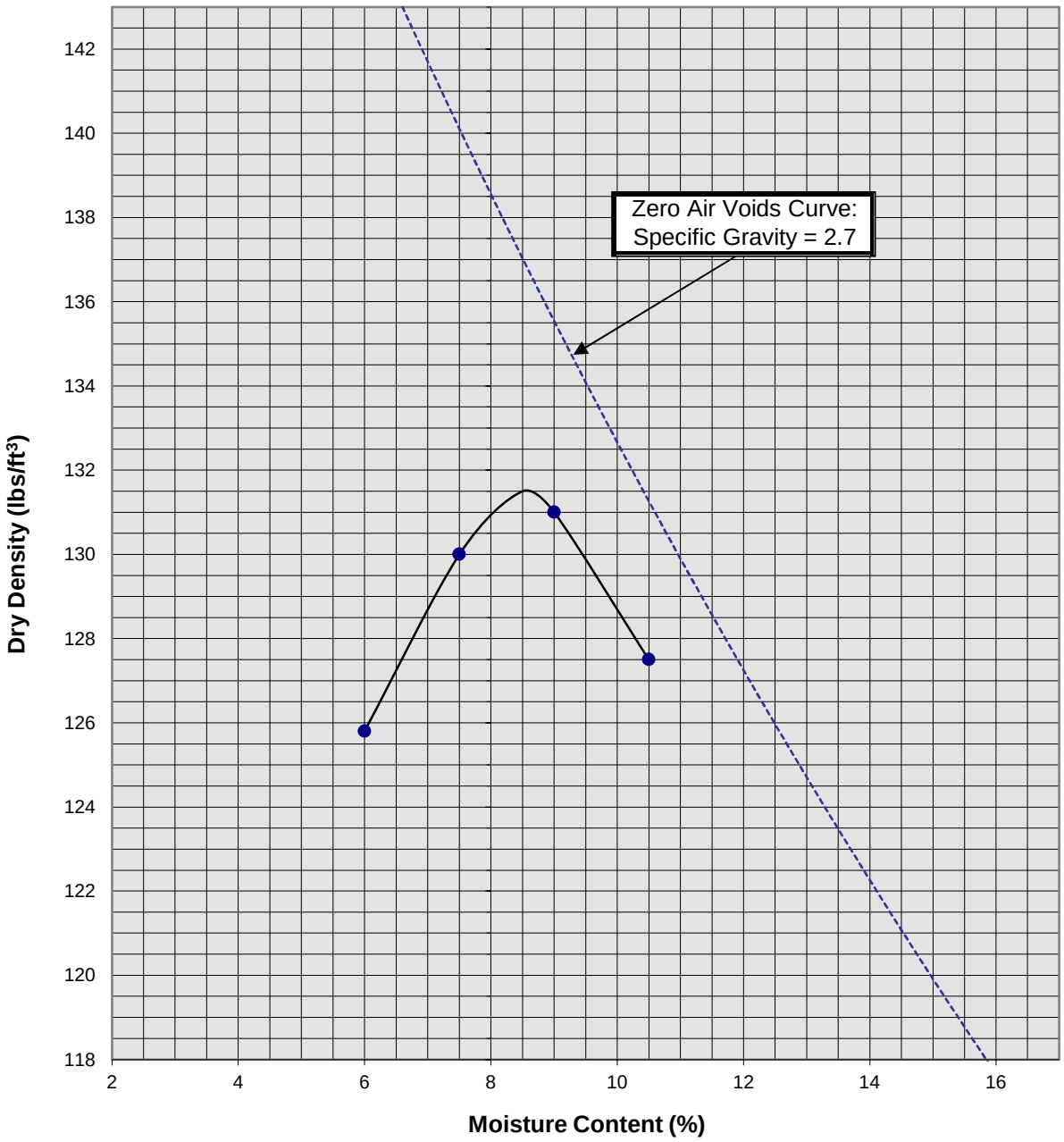
Boring Number:	B-3	Initial Moisture Content (%)	9
Sample Number:	---	Final Moisture Content (%)	12
Depth (ft)	7 to 8	Initial Dry Density (pcf)	113.8
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	120.4
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.38

Proposed Warehouse
Moreno Valley, California
Project No. 21G291-1

PLATE C- 4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	B-3 @ 0-5'
Optimum Moisture (%)	8.5
Maximum Dry Density (pcf)	131.5
Soil Classification	Brown Silty fine to medium Sand, little coarse Sand, little Clay

Proposed Warehouse
Moreno Valley, California
Project No. 21G291-1

PLATE C-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX D

GRADING GUIDE SPECIFICATIONS

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

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.

- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.

- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.

- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.

- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.

- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.

- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as “contaminated,” and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

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

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.

- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.

- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core

- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.

- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.

- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).

- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.

- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.

- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.

- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

- Stabilization key excavations should be provided with subdrains. Typical subdrain details are shown on Plates D-6.

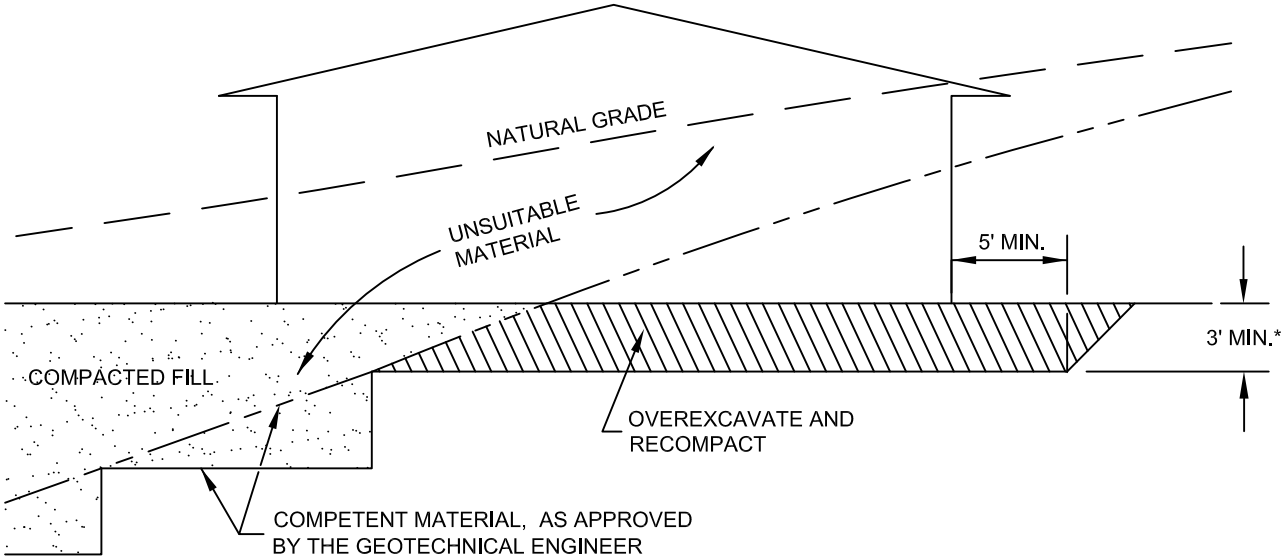
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

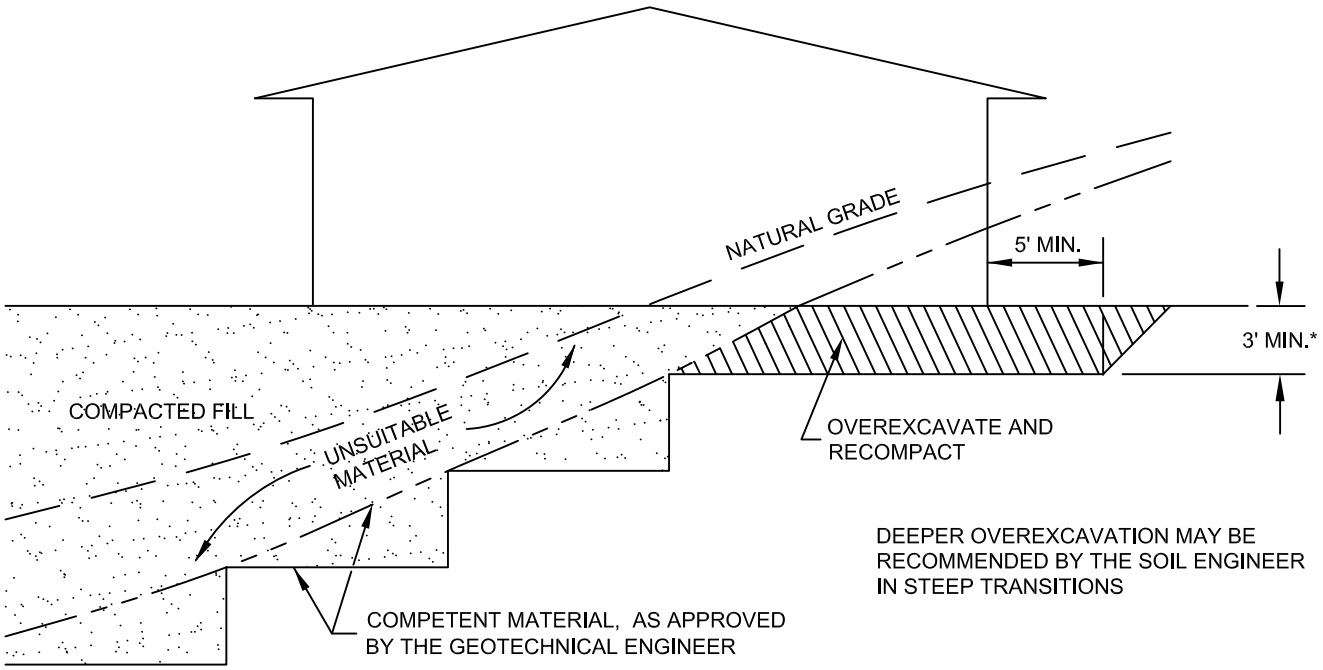
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)

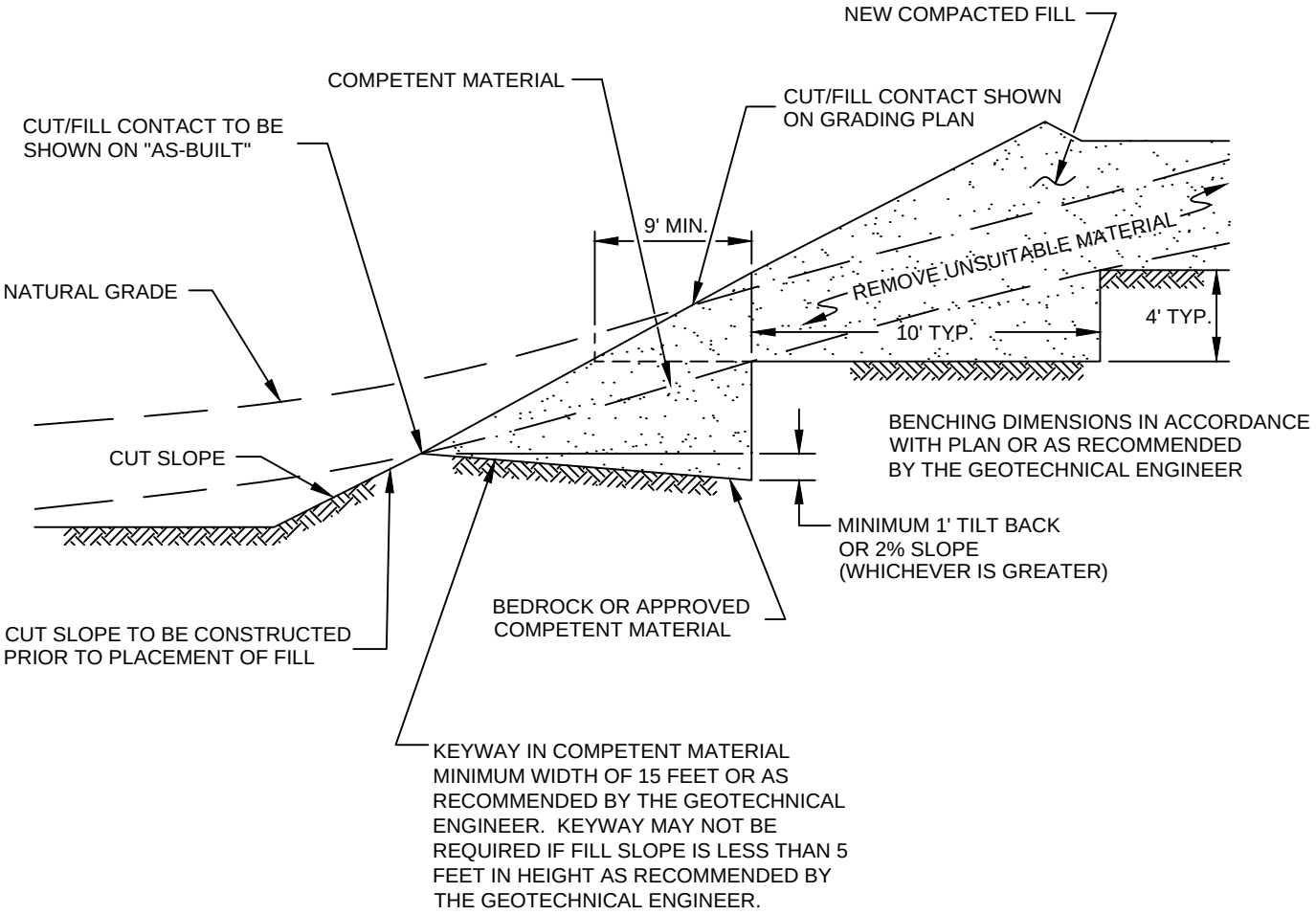


*SEE TEXT OF REPORT FOR SPECIFIC RECOMMENDATION. ACTUAL DEPTH OF OVEREXCAVATION MAY BE GREATER.

TRANSITION LOT DETAIL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE	SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-1	



FILL ABOVE CUT SLOPE DETAIL

GRADING GUIDE SPECIFICATIONS

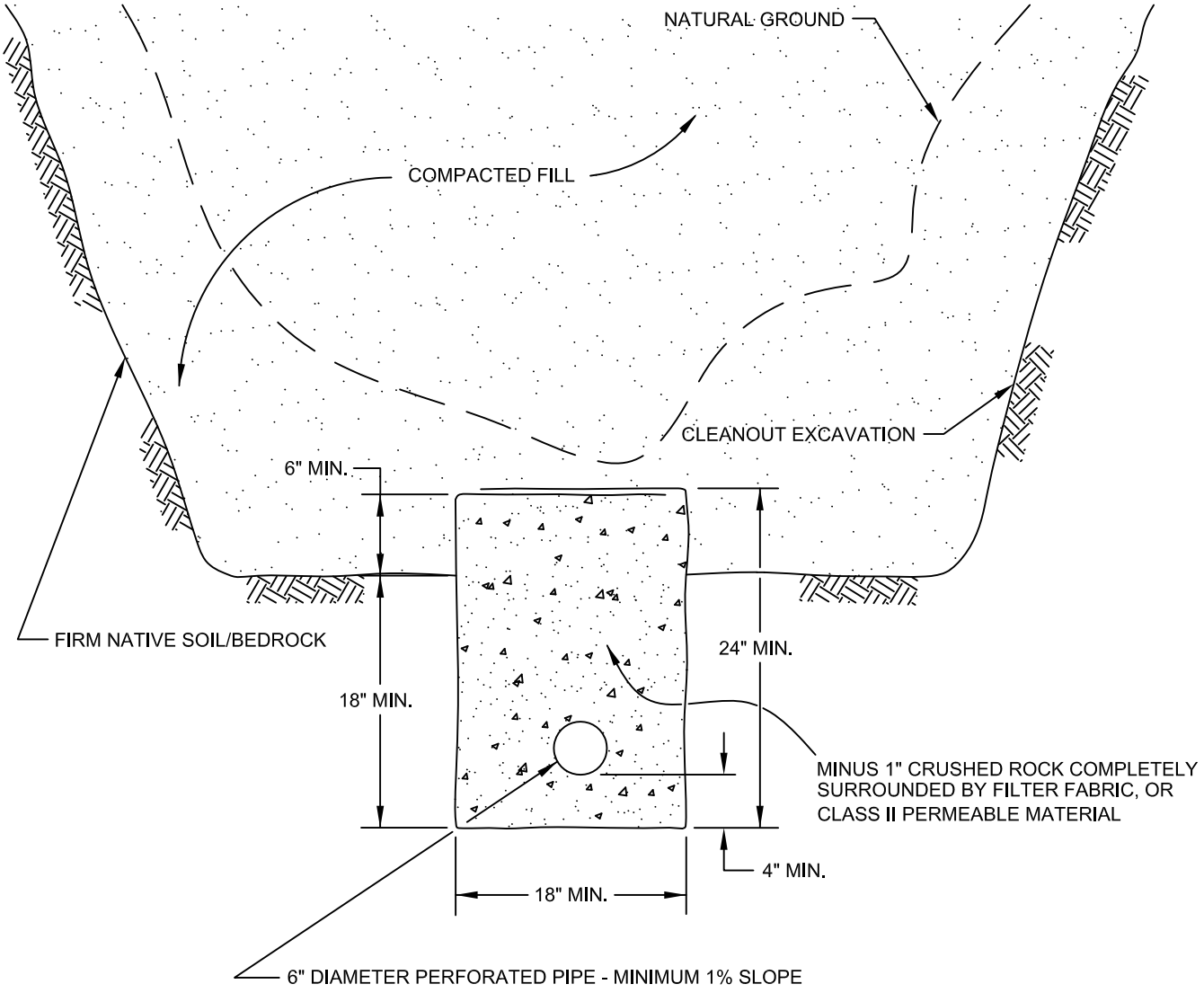
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-2

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



PIPE MATERIAL	DEPTH OF FILL OVER SUBDRAIN
ADS (CORRUGATED POLETHYLENE)	8
TRANSITE UNDERDRAIN	20
PVC OR ABS: SDR 35	35
SDR 21	100

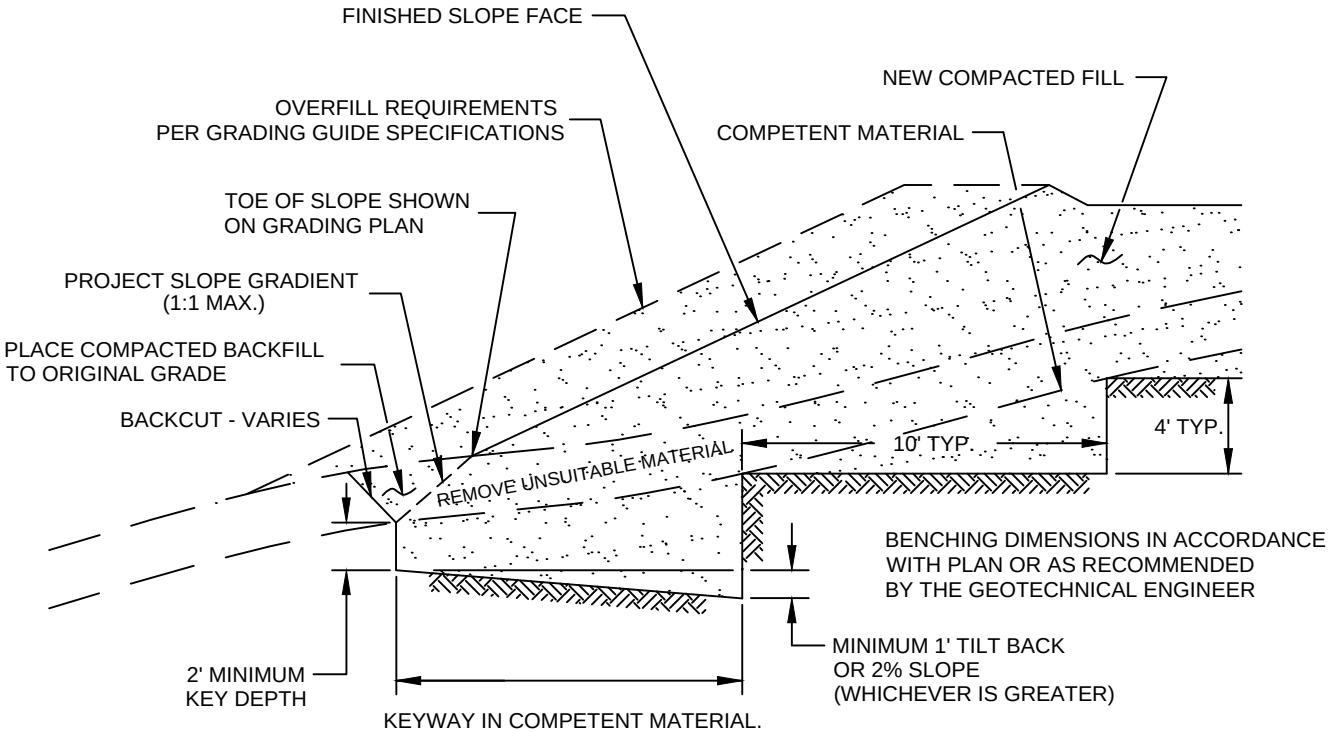
SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE
DRAWN: JAS
CHKD: GKM

PLATE D-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



NOTE:
BENCHING SHALL BE REQUIRED WHEN NATURAL SLOPES ARE EQUAL TO OR STEEPER THAN 5:1 OR WHEN RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

FILL ABOVE NATURAL SLOPE DETAIL

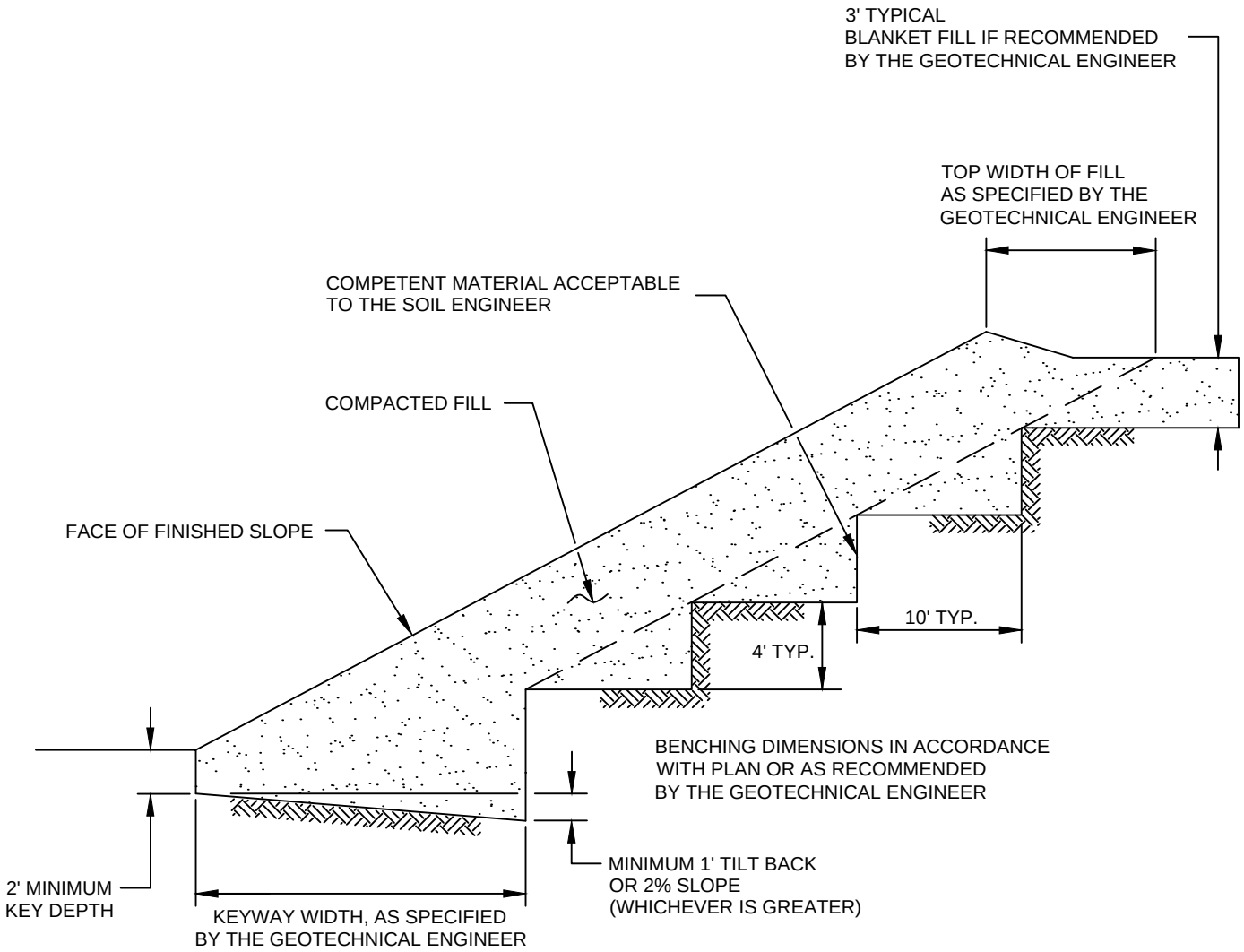
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



STABILIZATION FILL DETAIL

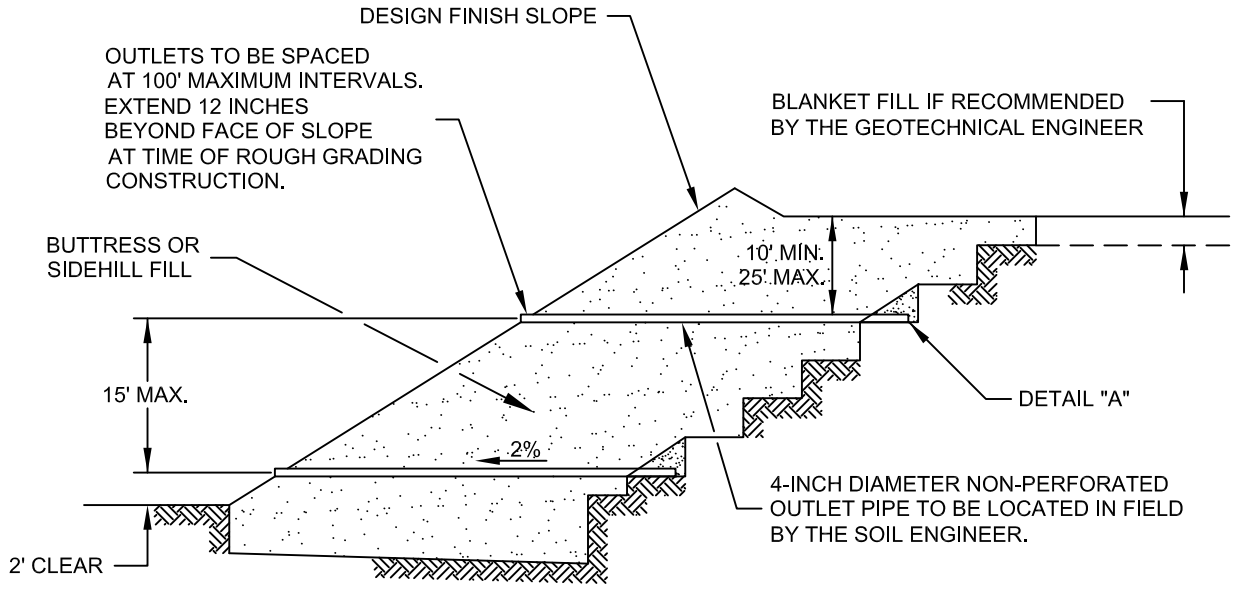
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



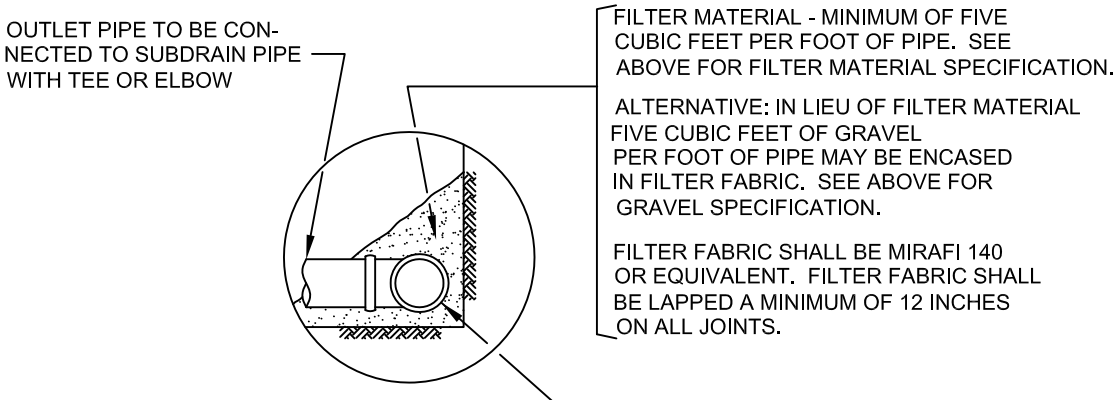
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

NOTES:
1. TRENCH FOR OUTLET PIPES TO BE BACKFILLED WITH ON-SITE SOIL.

SLOPE FILL SUBDRAINS

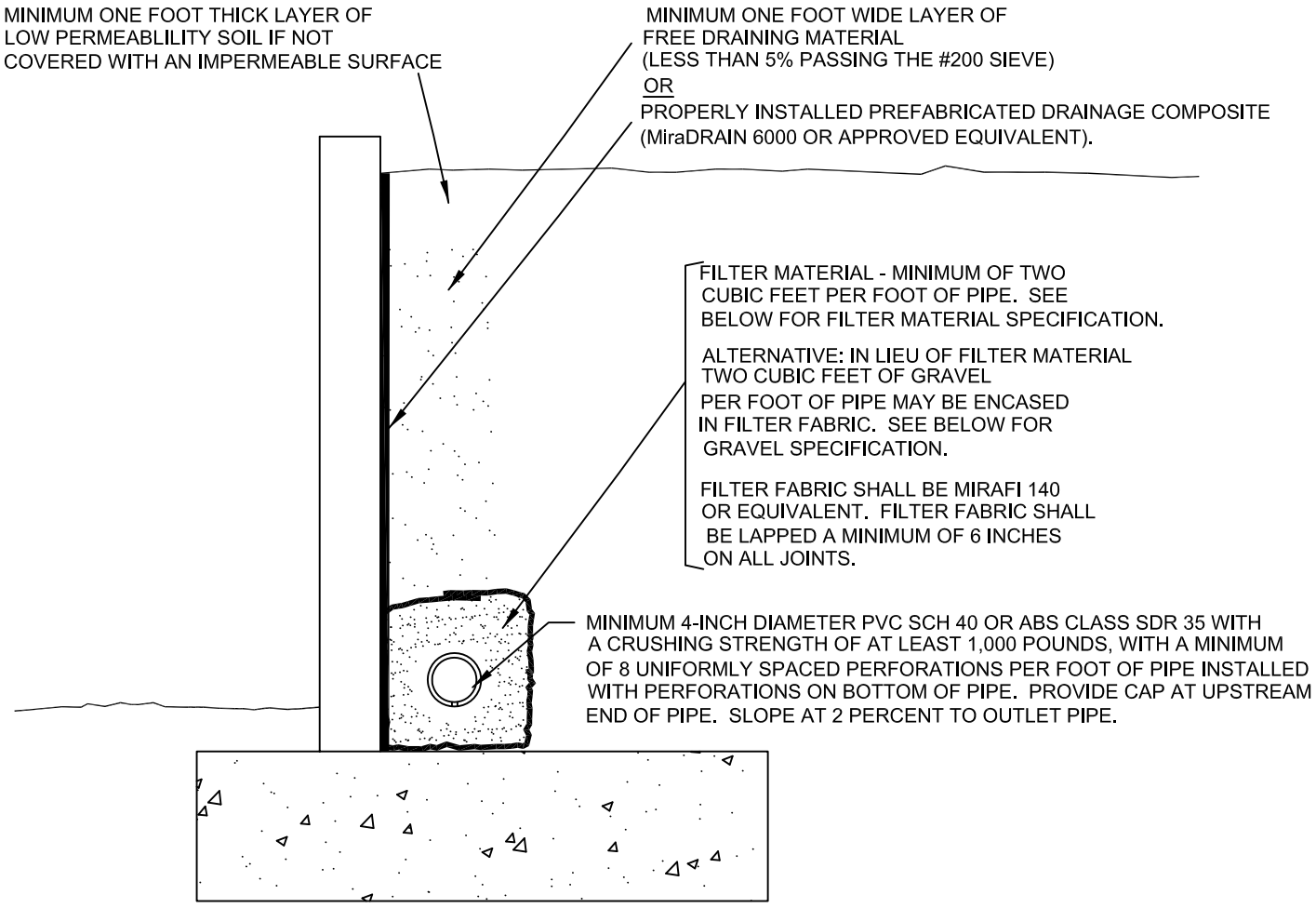
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

GRADING GUIDE SPECIFICATIONS

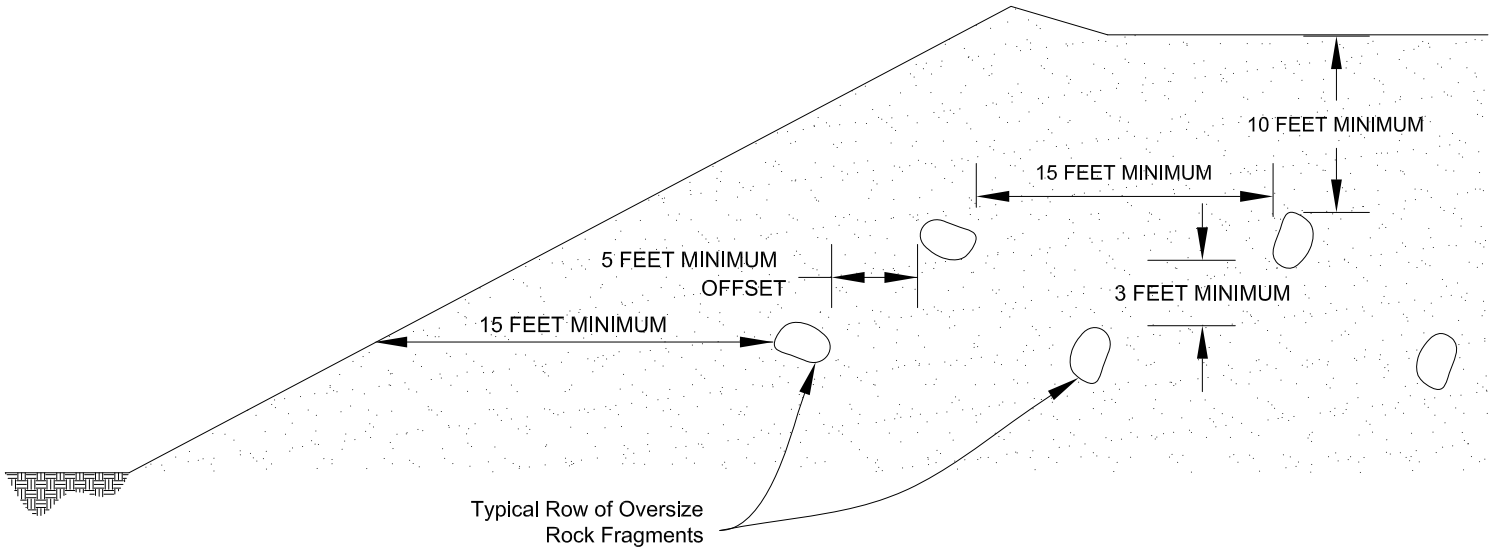
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

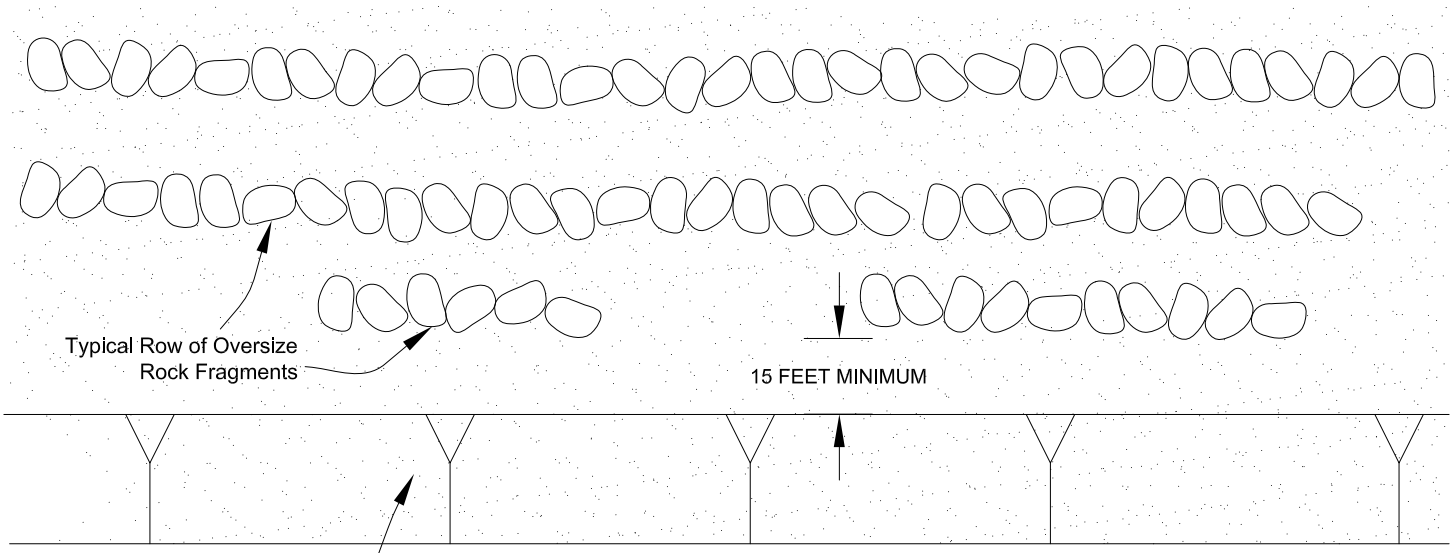
PLATE D-7

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E

14050 Day St, Moreno Valley, CA 92553, USA

Latitude, Longitude: 33.9142412, -117.2780826

Date	1/18/2022, 2:11:44 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.5	MCE_R ground motion. (for 0.2 second period)
S_1	0.6	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.5	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.566	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.622	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.691	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.813	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.634	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.698	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.566	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.932	Mapped value of the risk coefficient at short periods
C_{R1}	0.908	Mapped value of the risk coefficient at a period of 1 s

SOURCE: SEAOC/OSHPD Seismic Design Maps Tool
<https://seismicmaps.org/>

SEISMIC DESIGN PARAMETERS - 2019 CBC

PROPOSED WAREHOUSE

MORENO VALLEY, CALIFORNIA

DRAWN: JLL
CHKD: RGT

SCG PROJECT
21G291-1

PLATE E-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX F

LIQUEFACTION EVALUATION

Project Name	Proposed Warehouse	Design PGA	0.622	(g)
Project Location	Moreno Valley, CA	Design Magnitude	6.94	
Project Number	21G291-1	Historic High Depth to Groundwater	14	(ft)
Engineer	JLL	Depth to Groundwater at Time of Drilling	21.5	(ft)
		Borehole Diameter	6	(in)
Boring No.	B-1			

Sample Depth (ft)	Depth to Top of Layer (ft)	Depth to Bottom of Layer (ft)	Depth to Midpoint (ft)	Uncorrected SPT N-Value	Unit Weight of Soil (pcf)	Fines Content (%)	Energy Correction	C_B	C_S	C_N	Rod Length Correction	$(N_1)_{60}$	$(N_1)_{60CS}$	Overburden Stress (σ_o) (psf)	Eff. Overburden Stress (Hist. Water) (σ_o') (psf)	Eff. Overburden Stress (Curr. Water) (σ_o') (psf)	Stress Reduction Coefficient (r_d)	MSF	KS	Cyclic Resistance Ratio (M=7.5)	Cyclic Resistance Ratio (M=6.94)	Cyclic Stress Ratio Induced by Design Earthquake	Factor of Safety	Comments
							(1)	(2)	(3)	(4)	(5)	(6)	(7)				(8)	(9)	(10)	(11)	(12)	(13)		
14.5	0	14	7		120		1.3	1.05	1.1	1.70	0.85	0.0	0.0	840	840	840	0.98	1.02	1.05	0.06	0.06	N/A	N/A	Above Water Table
14.5	14	17	15.5	21	120		1.3	1.05	1.3	1.05	0.85	33.1	33.1	1860	1766	1860	0.95	1.24	1.04	0.77	1.00	0.40	2.46	Nonliquefiable
19.5	17	22	19.5	27	120		1.3	1.05	1.3	0.97	0.95	44.3	44.3	2340	1997	2340	0.93	1.24	1.01	2.00	2.00	0.44	4.54	Nonliquefiable
24.5	22	27	24.5	30	120		1.3	1.05	1.3	0.93	0.95	47.3	47.3	2940	2285	2753	0.90	1.24	0.98	2.00	2.00	0.47	4.25	Nonliquefiable
29.5	27	32	29.5	36	120		1.3	1.05	1.3	0.93	0.95	56.3	56.3	3540	2573	3041	0.88	1.24	0.94	2.00	2.00	0.49	4.10	Nonliquefiable
34.5	32	37	34.5	54	120		1.3	1.05	1.3	0.98	1	94.2	94.2	4140	2861	3329	0.85	1.24	0.91	2.00	2.00	0.50	4.02	Nonliquefiable
39.5	37	39.5	38.3	47	120		1.3	1.05	1.3	0.95	1	79.2	79.2	4590	3077	3545	0.83	1.24	0.89	2.00	2.00	0.50	4.00	Nonliquefiable
39.5	39.5	42	40.8	47	120		1.3	1.05	1.3	0.94	1	78.8	78.8	4890	3221	3689	0.81	1.24	0.87	2.00	2.00	0.50	4.00	Nonliquefiable
44.5	42	44	43	35	120		1.3	1.05	1.3	0.88	1	54.7	54.7	5160	3350	3818	0.80	1.24	0.86	2.00	2.00	0.50	4.01	Nonliquefiable
44.5	44	47	45.5	35	120		1.3	1.05	1.3	0.87	1	54.1	54.1	5460	3494	3962	0.79	1.24	0.85	2.00	2.00	0.50	4.02	Nonliquefiable
49.5	47	50	48.5	49	120		1.3	1.05	1.3	0.94	1	81.9	81.9	5820	3667	4135	0.77	1.24	0.84	2.00	2.00	0.49	4.05	Nonliquefiable

Notes:

(1) Energy Correction for N_{90} of automatic hammer to standard N_{60}

(2) Borehole Diameter Correction (Skempton, 1986)

(3) Correction for split-spoon sampler with room for liners, but liners are absent, (Seed et al., 1984, 2001)

(4) Overburden Correction, Caluclated by Eq. 39 (Boulanger and Idriss, 2008)

(5) Rod Length Correction for Samples <10 m in depth

(6) N-value corrected for energy, borehole diameter, sampler with absent liners, rod length, and overburden

(7) N-value corrected for fines content per Eqs. 75 and 76 (Boulanger and Idriss, 2008)

(8) Stress Reduction Coefficient calculated by Eq. 22 (Boulanger and Idriss, 2008)

(9) Magnitude Scaling Factor calculated by Eqns. A.8 & A.10 (Boulanger and Idriss, 2014)

(10) Overburden Correction Factor calcuated by Eq. 54 (Boulanger and Idriss, 2008)

(11) Calcuated by Eq. 70 (Boulanger and Idriss, 2008)

(12) Calcuated by Eq. 72 (Boulanger and Idriss, 2008)

(13) Calcuated by Eq. 25 (Boulanger and Idriss, 2008)

LIQUEFACTION INDUCED SETTLEMENTS

Project Name	Proposed Warehouse
Project Location	Moreno Valley, CA
Project Number	21G291-1
Engineer	JLL

Boring No. B-1

Sample Depth (ft)	Depth to Top of Layer (ft)	Depth to Bottom of Layer (ft)	Depth to Midpoint (ft)	$(N_1)_{60}$	DN for fines cont	$(N_1)_{60\text{-}CS}$	Liquefaction Factor of Safety	Limiting Shear Strain γ_{min}	Parameter Fα	Maximum Shear Strain γ_{max}	Height of Layer		Vertical Reconsolidation Strain ε_v		Total Deformation of Layer (in)	Comments
				(1)	(2)	(3)	(4)	(5)	(6)	(7)			(8)			
14.5	0	14	7	0.0	0.0	0.0	N/A	0.50	0.95	0.00	14.00		0.000		0.00	Above Water Table
14.5	14	17	15.5	33.1	0.0	33.1	2.46	0.03	-0.30	0.00	3.00		0.000		0.00	Nonliquefiable
19.5	17	22	19.5	44.3	0.0	44.3	4.54	0.00	-1.13	0.00	5.00		0.000		0.00	Nonliquefiable
24.5	22	27	24.5	47.3	0.0	47.3	4.25	0.00	-1.37	0.00	5.00		0.000		0.00	Nonliquefiable
29.5	27	32	29.5	56.3	0.0	56.3	4.10	0.00	-2.11	0.00	5.00		0.000		0.00	Nonliquefiable
34.5	32	37	34.5	94.2	0.0	94.2	4.02	0.00	-5.51	0.00	5.00		0.000		0.00	Nonliquefiable
39.5	37	39.5	38.3	79.2	0.0	79.2	4.00	0.00	-4.12	0.00	2.50		0.000		0.00	Nonliquefiable
39.5	39.5	42	40.8	78.8	0.0	78.8	4.00	0.00	-4.09	0.00	2.50		0.000		0.00	Nonliquefiable
44.5	42	44	43	54.7	0.0	54.7	4.01	0.00	-1.97	0.00	2.00		0.000		0.00	Nonliquefiable
44.5	44	47	45.5	54.1	0.0	54.1	4.02	0.00	-1.93	0.00	3.00		0.000		0.00	Nonliquefiable
49.5	47	50	48.5	81.9	0.0	81.9	4.05	0.00	-4.37	0.00	3.00		0.000		0.00	Nonliquefiable
											Total Deformation (in)				0.00	

Notes:

(1) $(N_1)_{60}$ calculated previously for the individual layer

(2) Correction for fines content per Equation 76 (Boulanger and Idriss, 2008)

(3) Corrected $(N_1)_{60}$ for fines content

(4) Factor of Safety against Liquefaction, calculated previously for the individual layer

(5) Calcuated by Eq. 86 (Boulanger and Idriss, 2008)

(6) Calcuated by Eq. 89 (Boulanger and Idriss, 2008)

(7) Calcuated by Eqs. 90, 91, and 92 (Boulanger and Idriss, 2008)

(8) Volumetric Strain Induced in a Liquefiable Layer, Calcuated by Eq. 96 (Boulanger and Idriss, 2008)
(Strain N/A if Factor of Safety against Liquefaction > 1.3)

LIQUEFACTION EVALUATION

Project Name	Proposed Warehouse	Design PGA	0.622 (g)
Project Location	Moreno Valley, CA	Design Magnitude	6.94
Project Number	21G291-1	Historic High Depth to Groundwater	14 (ft)
Engineer	JLL	Depth to Groundwater at Time of Drilling	23 (ft)
		Borehole Diameter	6 (in)
Boring No.	B-4		

Sample Depth (ft)	Depth to Top of Layer (ft)	Depth to Bottom of Layer (ft)	Depth to Midpoint (ft)	Uncorrected SPT N-Value	Unit Weight of Soil (pcf)	Fines Content (%)	Energy Correction	C_B	C_S	C_N	Rod Length Correction	$(N_1)_{60}$	$(N_1)_{60CS}$	Overburden Stress (σ_o) (psf)	Eff. Overburden Stress (Hist. Water) (σ_o') (psf)	Eff. Overburden Stress (Curr. Water) (σ_o') (psf)	Stress Reduction Coefficient (r_d)	MSF	KS	Cyclic Resistance Ratio (M=7.5)	Cyclic Resistance Ratio (M=6.94)	Cyclic Stress Ratio Induced by Design Earthquake	Factor of Safety	Comments
							(1)	(2)	(3)	(4)	(5)	(6)	(7)				(8)	(9)	(10)	(11)	(12)	(13)		
14.5	0	14	7		120		1.3	1.05	1.1	1.70	0.85	0.0	0.0	840	840	840	0.98	1.02	1.05	0.06	0.06	N/A	N/A	Above Water Table
14.5	14	17	15.5	42	120		1.3	1.05	1.3	1.02	0.85	64.7	64.7	1860	1766	1860	0.95	1.24	1.05	2.00	2.00	0.40	4.95	Nonliquefiable
19.5	17	22	19.5	19	120		1.3	1.05	1.3	0.96	0.95	30.9	30.9	2340	1997	2340	0.93	1.21	1.01	0.55	0.67	0.44	1.52	Nonliquefiable
24.5	22	27	24.5	30	120		1.3	1.05	1.3	0.93	0.95	46.8	46.8	2940	2285	2846	0.90	1.24	0.98	2.00	2.00	0.47	4.25	Nonliquefiable
29.5	27	29.5	28.3	28	120		1.3	1.05	1.3	0.90	0.95	42.5	42.5	3390	2501	3062	0.88	1.24	0.95	2.00	2.00	0.48	4.13	Nonliquefiable
29.5	29.5	32	30.8	28	120		1.3	1.05	1.3	0.89	0.95	41.9	41.9	3690	2645	3206	0.87	1.24	0.93	2.00	2.00	0.49	4.07	Nonliquefiable
34.5	32	37	34.5	37	120		1.3	1.05	1.3	0.91	1	59.9	59.9	4140	2861	3422	0.85	1.24	0.91	2.00	2.00	0.50	4.02	Nonliquefiable
39.5	37	42	39.5	41	120		1.3	1.05	1.3	0.92	1	66.6	66.6	4740	3149	3710	0.82	1.24	0.88	2.00	2.00	0.50	4.00	Nonliquefiable
44.5	42	47	44.5	44	120		1.3	1.05	1.3	0.92	1	71.7	71.7	5340	3437	3998	0.79	1.24	0.85	2.00	2.00	0.50	4.02	Nonliquefiable
49.5	47	50	48.5	50	120		1.3	1.05	1.3	0.95	1	83.9	83.9	5820	3667	4229	0.77	1.24	0.84	2.00	2.00	0.49	4.05	Nonliquefiable

Notes:

(1) Energy Correction for N_{90} of automatic hammer to standard N_{60}

(2) Borehole Diameter Correction (Skempton, 1986)

(3) Correction for split-spoon sampler with room for liners, but liners are absent, (Seed et al., 1984, 2001)

(4) Overburden Correction, Caluclated by Eq. 39 (Boulanger and Idriss, 2008)

(5) Rod Length Correction for Samples <10 m in depth

(6) N-value corrected for energy, borehole diameter, sampler with absent liners, rod length, and overburden

(7) N-value corrected for fines content per Eqs. 75 and 76 (Boulanger and Idriss, 2008)

(8) Stress Reduction Coefficient calculated by Eq. 22 (Boulanger and Idriss, 2008)

(9) Magnitude Scaling Factor calculated by Eqns. A.8 & A.10 (Boulanger and Idriss, 2014)

(10) Overburden Correction Factor calcuated by Eq. 54 (Boulanger and Idriss, 2008)

(11) Calcuated by Eq. 70 (Boulanger and Idriss, 2008)

(12) Calcuated by Eq. 72 (Boulanger and Idriss, 2008)

(13) Calcuated by Eq. 25 (Boulanger and Idriss, 2008)

LIQUEFACTION INDUCED SETTLEMENTS

Project Name	Proposed Warehouse
Project Location	Moreno Valley, CA
Project Number	21G291-1
Engineer	JLL

Boring No. B-4

Sample Depth (ft)	Depth to Top of Layer (ft)	Depth to Bottom of Layer (ft)	Depth to Midpoint (ft)	$(N_1)_{60}$	DN for fines cont	$(N_1)_{60\text{-}CS}$	Liquefaction Factor of Safety	Limiting Shear Strain γ_{min}	Parameter Fα	Maximum Shear Strain γ_{max}	Height of Layer		Vertical Reconsolidation Strain ε_v		Total Deformation of Layer (in)	Comments
				(1)	(2)	(3)	(4)	(5)	(6)	(7)			(8)			
14.5	0	14	7	0.0	0.0	0.0	N/A	0.50	0.95	0.00	14.00		0.000		0.00	Above Water Table
14.5	14	17	15.5	64.7	0.0	64.7	4.95	0.00	-2.83	0.00	3.00		0.000		0.00	Nonliquefiable
19.5	17	22	19.5	30.9	0.0	30.9	1.52	0.00	-0.15	0.00	5.00		0.000		0.00	Nonliquefiable
24.5	22	27	24.5	46.8	0.0	46.8	4.25	0.00	-1.34	0.00	5.00		0.000		0.00	Nonliquefiable
29.5	27	29.5	28.3	42.5	0.0	42.5	4.13	0.00	-1.00	0.00	2.50		0.000		0.00	Nonliquefiable
29.5	29.5	32	30.8	41.9	0.0	41.9	4.07	0.01	-0.95	0.00	2.50		0.000		0.00	Nonliquefiable
34.5	32	37	34.5	59.9	0.0	59.9	4.02	0.00	-2.42	0.00	5.00		0.000		0.00	Nonliquefiable
39.5	37	42	39.5	66.6	0.0	66.6	4.00	0.00	-3.00	0.00	5.00		0.000		0.00	Nonliquefiable
44.5	42	47	44.5	71.7	0.0	71.7	4.02	0.00	-3.45	0.00	5.00		0.000		0.00	Nonliquefiable
49.5	47	50	48.5	83.9	0.0	83.9	4.05	0.00	-4.56	0.00	3.00		0.000		0.00	Nonliquefiable
											Total Deformation (in)				0.00	

Notes:

(1) $(N_1)_{60}$ calculated previously for the individual layer

(2) Correction for fines content per Equation 76 (Boulanger and Idriss, 2008)

(3) Corrected $(N_1)_{60}$ for fines content

(4) Factor of Safety against Liquefaction, calculated previously for the individual layer

(5) Calcuated by Eq. 86 (Boulanger and Idriss, 2008)

(6) Calcuated by Eq. 89 (Boulanger and Idriss, 2008)

(7) Calcuated by Eqs. 90, 91, and 92 (Boulanger and Idriss, 2008)

(8) Volumetric Strain Induced in a Liquefiable Layer, Calcuated by Eq. 96 (Boulanger and Idriss, 2008)
(Strain N/A if Factor of Safety against Liquefaction > 1.3)

February 14, 2021

First Industrial Realty Trust, Inc.
898 N. Pacific Coast Highway. STE 175
El Segundo, CA 90245

Attention: Mr. Michael Goodwin

Project No.: **21G291-2**

Subject: **Results of Infiltration Testing**
Proposed Warehouse
14050 Day Street
Moreno Valley, California

Reference: Geotechnical Investigation, Proposed Warehouse, 14050 Day Street, Moreno Valley, California, prepared by Southern California Geotechnical, Inc. (SCG), prepared for First Industrial Realty, SCG Project No. 21G291-1, dated February 14, 2022.

Mr. Goodwin:

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

Scope of Services

The scope of services performed for this project was in general accordance with our Proposal No. 21P518, dated December 23, 2021. The scope of services included site reconnaissance, subsurface exploration, field testing, and engineering analysis to determine the infiltration rates of the onsite soils. The infiltration testing was performed in general accordance with the guidelines published in Riverside County – Low Impact Development BMP Design Handbook – Section 2.3 of Appendix A, prepared for the Riverside County Department of Environmental Health (RCDEH), dated December, 2013.

Site and Project Description

The subject site is located on the east side of Day Street, 690± feet south of the intersection of Day Street and Alessandro Boulevard in Moreno Valley, California. The site is also referenced by the street address 14050 Day Street. The site is bounded to the west by Day Street, and to the south, east and north by industrial/commercial buildings. The general location of the site is illustrated on the Site Location Map, included as Plate 1 in Appendix A of this report.

The subject site consists of a near rectangular-shaped parcel, 8.01± acres in size. The site is currently developed with an industrial building, 65,000± ft² in size, located in the west-central area of the site. The building is a single-story structure of metal frame construction, and assumed to be supported on conventional shallow foundations with a concrete slab-on-grade floor. Silos and above ground storage tanks (AST's) are located immediately north of the building. Some

large trees are present in the landscaped area immediately southeast from the building. The building is generally surrounded by asphaltic concrete (AC) pavements in the parking and drive lanes, and Portland cement concrete (PCC) pavements in the product storage areas in the northern and southern areas of the site. The existing pavements are in poor to fair condition, with moderate to severe cracking throughout. Earthen swales are present in area along the western and southern property lines.

Detailed topographic information was not available at the time of this report. Based on elevations obtained from Google Earth and visual observations made at the time of the subsurface investigation, the overall site generally slopes downward to the south at a gradient of less than 1 percent.

Proposed Development

A preliminary site plan, identified as Scheme 01 and prepared by RGA, for the proposed development was provided to our office by the client. Based on this plan, the subject site will be developed with a 163,242± ft² warehouse, located in the western portion of the site. Dock-high doors will be constructed along a portion of the east building wall. The proposed building is expected to be surrounded by AC pavements in the parking and drive areas, PCC pavements in the loading dock area, and concrete flatwork and landscaped planters throughout the site.

The proposed development will include on-site stormwater infiltration. The infiltration system will consist of a below-grade chamber system located in the eastern area of the site. The bottom of the infiltration system will extend to a depth of 10± feet below the existing site grades.

Concurrent Study

SCG concurrently conducted a geotechnical investigation at the subject site, also referenced above. As part of this study, five (5) borings advanced to depths of 20 to 50± feet below the existing site grades. Boring No. B-1 was drilled within the existing PCC pavements. The pavement section at this location consists of 7± inches of unreinforced PCC with no discernible layer of underlying aggregate base. Boring Nos. B-2, B-3, B-4 and B-5 were drilled within the existing AC pavements. The pavement sections at these locations consist of 1 to 3± inches of AC, underlain by 4 to 5± inches of aggregate base. Artificial fill soils were encountered beneath the existing pavements at all of the boring locations, extending to depths of 4½ to 5½± feet below the existing site grades. The fill soils generally consist of loose to dense silty sands and clayey sands. Native alluvial soils were encountered beneath the fill soils at all of the boring locations, extending to at least the maximum depth explored of 50± feet below the existing site grades. The alluvial soils generally consist of stiff to very stiff sandy clays, silty clays and clayey silts, and medium dense to dense clayey sands and silty sands, with occasional medium dense to very dense well graded sands and medium dense sandy silts.

Groundwater

Free water was encountered during drilling at Boring Nos. B-1 and B-4 at depths of 32 and 27± feet below the ground surface, respectively. Delayed groundwater level readings, approximately 3 hours after the completion of drilling, were taken within the inside of the augers at these boring locations. These readings indicated that the groundwater was at depths of 21½ and 23± feet,

respectively. Therefore, the static groundwater table is considered to have been present at depths of 21½ and 23± feet below the existing site grades at the time of subsurface exploration.

As part of our research, we reviewed available groundwater data in order to determine the historic high groundwater level for the site. The primary reference used to determine the historic groundwater depths in this area is the Western Municipal Water District and the San Bernardino Valley Water Conservation District Cooperative Well Measuring Program. High water level from the nearest well is included below:

State Well ID	Approximate Distance from Subject Site	Measuring Point Elevation MSL (feet)	High Water Level MSL (feet)
03S/04W-10Q	< 2640 feet	1532.67	1518.29

Based on the well information provided in the above table, the high groundwater level is 14± feet below the ground surface. Therefore, a groundwater depth of 14± feet is considered to be conservative with respect to the more recent site conditions.

Subsurface Exploration

Scope of Exploration

The subsurface exploration conducted for the infiltration testing consisted of two (2) infiltration test borings, advanced to a depth of 10± feet below the existing site grades. The infiltration borings were advanced using a truck-mounted drilling rig, equipped with 8-inch-diameter hollow stem augers and were logged during drilling by a member of our staff. The approximate locations of the infiltration test borings (identified as I-1 through I-2) are indicated on the Infiltration Test Location Plan, enclosed as Plate 2 of this report.

Upon the completion of the infiltration borings, the bottom of each test boring was covered with 2± inches of clean ¾-inch gravel. A sufficient length of 3-inch-diameter perforated PVC casing was then placed into each test hole so that the PVC casing extended from the bottom of the test hole to the ground surface. Clean ¾-inch gravel was then installed in the annulus surrounding the PVC casing.

Geotechnical Conditions

Asphaltic concrete (AC) pavements were encountered at the ground surface of both infiltration test locations, measuring 3 to 4± inches of AC with 4± inches of Aggregate Base. Artificial fill soils were encountered beneath the AC pavements at both infiltration test locations, extending to a depth of 7± feet below existing site grades. The artificial fill soils consisted of medium dense silty fine sands with trace quantities of medium sands and clays. Very dense clayey fine sands with trace quantities of medium sands and little silt were also encountered in the fill soils. Fabric debris were encountered within the artificial fill soils at Infiltration Test No. I-1. The fill soils also appeared mottled and disturbed, resulting in their classification of artificial fill. Native alluvium was encountered beneath the artificial fill soils at both infiltration test locations, extending to at least the maximum explored depth of 10± feet below existing site grades. The alluvium consisted

of medium dense clayey fine to medium sands and dense clayey fine sands. The Boring Logs, which illustrate the conditions encountered at the boring locations, are included with this report.

Infiltration Testing

As previously mentioned, the infiltration testing was performed in general accordance with the Riverside County guidelines: Riverside County – Low Impact Development BMP Design Handbook – Section 2.3 of Appendix A.

Pre-soaking

In accordance with the county infiltration standards, both of the infiltration test borings were pre-soaked prior to the infiltration testing. The pre-soaking process consisted of filling the test borings by inverting a full 5-gallon bottle of clear water supported over each hole so that the water level reaches a level of at least 5 times the hole's radius above the gravel at the bottom of each hole. The pre-soaking was completed after all of the water had percolated through each test hole or after 15 hours since initiating the pre-soak. Based on the results of the pre-soaking process, 30-minute readings were utilized during both of the infiltration tests.

Infiltration Testing

Following the pre-soaking process of the infiltration test borings, SCG performed the infiltration testing. Each test hole was filled with water to a depth of at least 5 times the hole's radius above the gravel at the bottom of each test hole. In accordance with the Riverside County guidelines, in areas where "non-sandy soils" were encountered at the bottom of the infiltration test borings (where 6 inches of water did not infiltrate into the surrounding soils in less than 25 minutes for two (2) consecutive readings), readings were taken at 30-minute intervals for a total of 6 hours at the test locations. The water level readings are presented on the spreadsheets enclosed with this report. The infiltration rates for each of the timed intervals are also tabulated on the spreadsheets.

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

Infiltration Test No.	Depth (feet)	Soil Description	Infiltration Rate (inches/hour)
I-1	10	Gray Brown Clayey fine to medium Sand, little Silt, little coarse Sand	0.1
I-2	10	Gray Brown Clayey fine Sand, little Silt, trace medium Sand	0.0

Laboratory Testing

Moisture Content

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

Grain Size Analysis

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

Design Recommendations

Two (2) infiltration tests were performed at the subject site. As noted above, the calculated infiltration rates at the infiltration test locations range from 0.0 to 0.1 inches per hour. **Based on the results of infiltration testing, infiltration is not recommended at this site due to the poor draining qualities of the on-site native soils.**

General Comments

This report has been prepared as an instrument of service for use by the client in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, structural engineer, and/or civil engineer. The design of the infiltration system is the responsibility of the civil engineer. The role of the geotechnical engineer is limited to determination of infiltration rate only. By using the design infiltration rates contained herein, the civil engineer agrees to indemnify, defend, and hold harmless the geotechnical engineer for all aspects of the design and performance of the infiltration system. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between trench locations and testing depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of

the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted. The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

Closure

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

Respectfully Submitted,

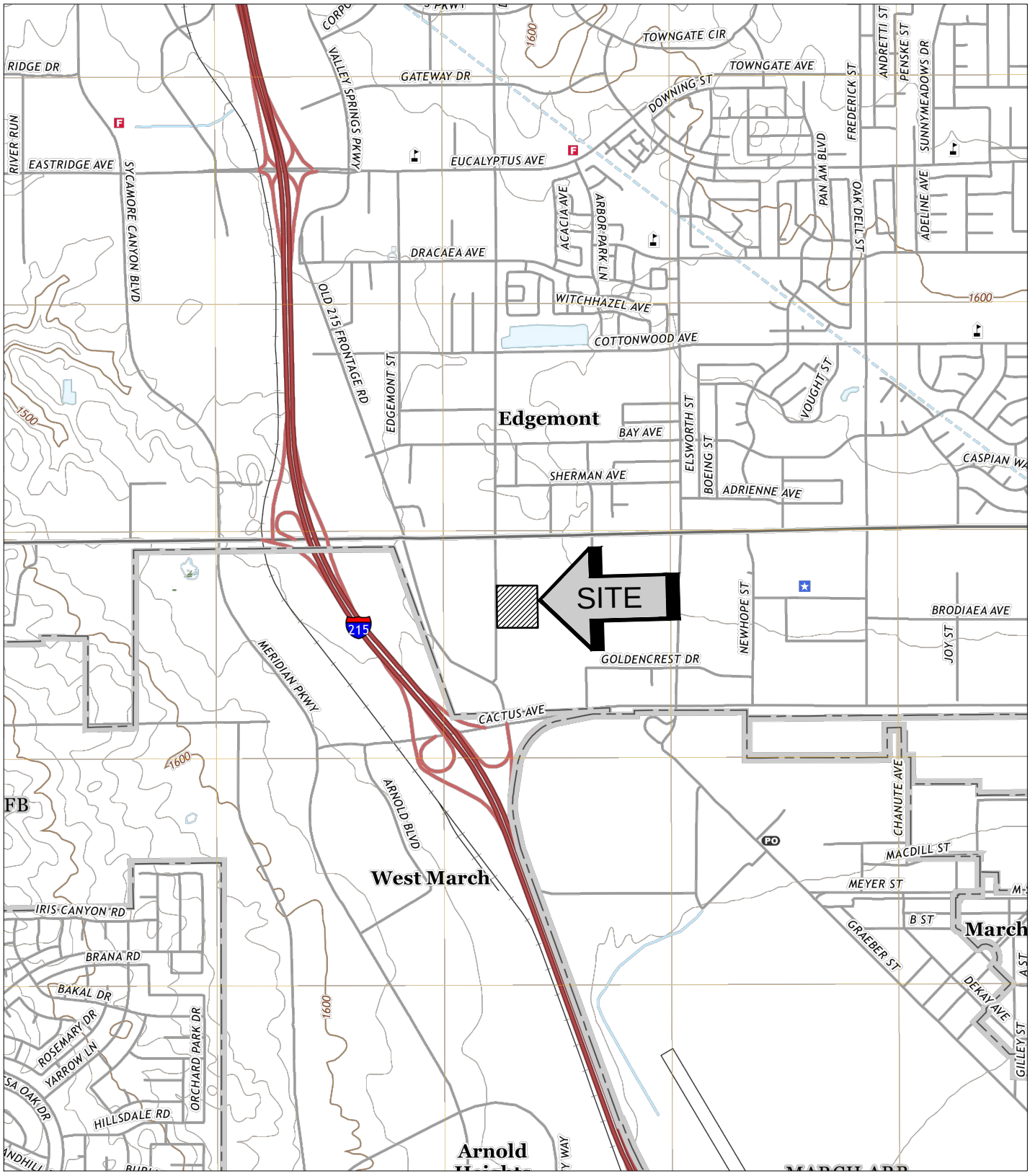
SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Ryan Bremer
Staff Geologist

Robert G. Trazo, GE 2655
Principal Engineer

Distribution: (1) Addressee

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



SOURCE: USGS TOPOGRAPHIC MAP OF THE RIVERSIDE EAST QUADRANGLE, RIVERSIDE COUNTY, CALIFORNIA, 2018.

SITE LOCATION MAP

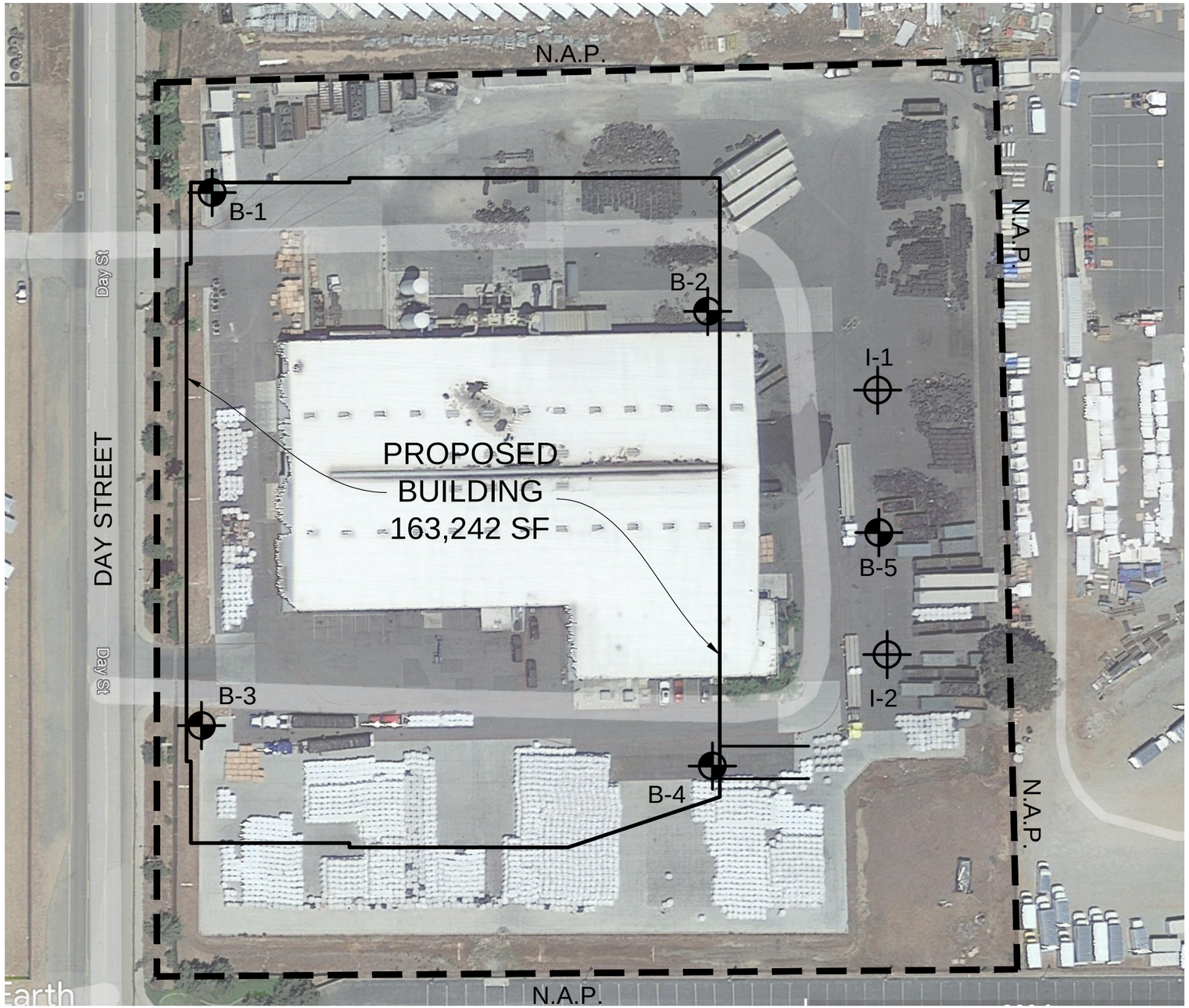
PROPOSED WAREHOUSE

MORENO VALLEY, CALIFORNIA

SCALE: 1" = 2000'	
DRAWN: JLL CHKD: RGT	
SCG PROJECT 21G291-2	
PLATE 1	

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



NORTH
SoCalGeo

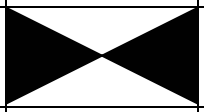
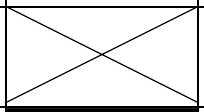
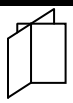
GEOTECHNICAL LEGEND

- APPROXIMATE INFILTRATION TEST LOCATION
- APPROXIMATE BORING LOCATION FROM CONCURRENT STUDY (SCG PROJECT NO. 21G291-1)

NOTE: PRELIMINARY SITE PLAN PREPARED BY RGA.
AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH.

INFILTRATION TEST LOCATION PLAN	
PROPOSED WAREHOUSE	
MORENO VALLEY, CALIFORNIA	
SCALE: 1" = 80'	SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JLL CHKD: RGT	
SCG PROJECT 21G291-2	
PLATE 2	

BORING LOG LEGEND

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

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

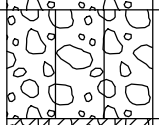
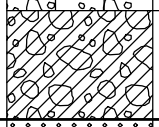
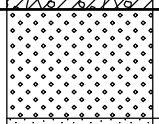
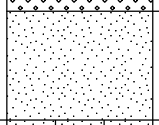
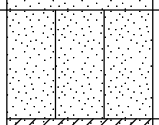
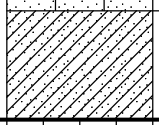
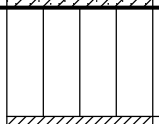
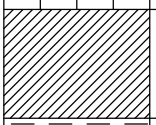
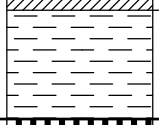
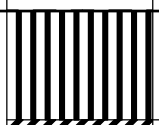
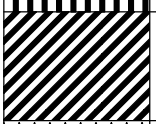
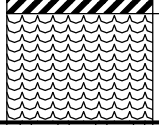
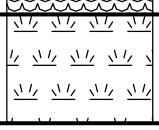
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

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

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-1

JOB NO.: 21G291-2
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/6/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					ASPHALT: 3± inches AC with Petromat and 4± inches AB							
					FILL: Brown Clayey fine Sand, trace medium Sand, little Silt, trace fabric, slightly mottled, very dense-moist								
		50/5"					15					
5												
					ALLUVIUM: Gray Brown Clayey fine to medium Sand, little Silt, little coarse Sand, medium dense-very moist								
		22					13			24		
10					Boring Terminated at 10'							

TBL 21G291-2.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. I-2

JOB NO.: 21G291-2
PROJECT: Proposed Warehouse
LOCATION: Moreno Valley, California

DRILLING DATE: 1/6/22
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Daryl Kas

WATER DEPTH: Dry
CAVE DEPTH: ---
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: --- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					ASPHALT: 4± inches AC with 4± inches AB							
					FILL: Brown Silty fine Sand, trace Clay, trace medium Sand, medium dense-damp							
5		12					6					
					ALLUVIUM: Gray Brown Clayey fine Sand, little Silt, trace medium Sand							
		30					11			32		
10					Boring Terminated at 10'							

TBL 21G291-2.GPJ SOCALGEO.GDT 2/14/22

TEST BORING LOG **PLATE B-2**

INFILTRATION CALCULATIONS

Project Name	Proposed Warehouse
Project Location	Moreno Valley, California
Project Number	21G291-2
Engineer	Ryan Bremer

Test Hole Radius	3	(in)
Test Depth	10.00	(ft)

Infiltration Test Hole	I-1

Soil Criteria Test

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (in)	Did 6 inches of water seep away in less than 25 minutes?	Sandy Soils or Non-Sandy Soils?
1	Initial	9:11 AM	25.00	6.55	2.52	NO	NON-SANDY SOILS
	Final	9:36 AM		6.76			
2	Initial	9:36 AM	25.00	6.76	2.52	NO	NON-SANDY SOILS
	Final	10:01 AM		6.97			

Test Data

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	10:01 AM	30.00	6.97	0.25	2.91	0.25
	Final	10:31 AM		7.22			
2	Initial	10:31 AM	30.00	7.22	0.21	2.68	0.23
	Final	11:01 AM		7.43			
3	Initial	11:01 AM	30.00	7.43	0.18	2.48	0.21
	Final	11:31 AM		7.61			
4	Initial	11:31 AM	30.00	7.61	0.15	2.32	0.18
	Final	12:01 PM		7.76			
5	Initial	12:01 PM	30.00	7.64	0.16	2.28	0.20
	Final	12:31 PM		7.80			
6	Initial	12:31 PM	30.00	7.80	0.08	2.16	0.11
	Final	1:01 PM		7.88			
7	Initial	1:01 PM	30.00	7.88	0.08	2.08	0.11
	Final	1:31 PM		7.96			
8	Initial	1:31 PM	30.00	7.55	0.12	2.39	0.14
	Final	2:01 PM		7.67			
9	Initial	2:01 PM	30.00	7.00	0.12	2.94	0.12
	Final	2:31 PM		7.12			
10	Initial	2:31 PM	30.00	7.12	0.09	2.84	0.09
	Final	3:01 PM		7.21			
11	Initial	3:01 PM	30.00	7.21	0.11	2.74	0.12
	Final	3:31 PM		7.32			
12	Initial	3:31 PM	30.00	7.02	0.09	2.94	0.09
	Final	4:01 PM		7.11			

Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where:

Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

INFILTRATION CALCULATIONS

Project Name	Proposed Warehouse
Project Location	Moreno Valley, California
Project Number	21G291-2
Engineer	Ryan Bremer

Test Hole Radius	3	(in)
Test Depth	10.10	(ft)

Infiltration Test Hole	I-2

Soil Criteria Test

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (in)	Did 6 inches of water seep away in less than 25 minutes?	Sandy Soils or Non-Sandy Soils?
1	Initial	8:42 AM	25.00	7.70	0.48	NO	NON-SANDY SOILS
	Final	9:07 AM		7.74			
2	Initial	9:07 AM	25.00	7.74	0.36	NO	NON-SANDY SOILS
	Final	9:32 AM		7.77			

Test Data

Interval Number		Time	Time Interval (min)	Water Depth (ft)	Change in Water Level (ft)	Average Head Height (ft)	Infiltration Rate Q (in/hr)
1	Initial	9:32 AM	30.00	7.77	0.04	2.31	0.05
	Final	10:02 AM		7.81			
2	Initial	10:02 AM	30.00	7.81	0.02	2.28	0.02
	Final	10:32 AM		7.83			
3	Initial	10:32 AM	30.00	7.83	0.02	2.26	0.03
	Final	11:02 AM		7.85			
4	Initial	11:02 AM	30.00	7.85	0.02	2.24	0.03
	Final	11:32 AM		7.87			
5	Initial	11:32 AM	30.00	7.87	0.02	2.22	0.03
	Final	12:02 PM		7.89			
6	Initial	12:02 PM	30.00	7.89	0.01	2.21	0.01
	Final	12:32 PM		7.90			
7	Initial	12:15 PM	30.00	7.90	0.02	2.19	0.03
	Final	12:45 PM		7.92			
8	Initial	12:45 PM	30.00	7.92	0.02	2.17	0.03
	Final	1:15 PM		7.94			
9	Initial	1:15 PM	30.00	7.94	0.01	2.16	0.01
	Final	1:45 PM		7.95			
10	Initial	1:45 PM	30.00	7.95	0.02	2.14	0.03
	Final	2:15 PM		7.97			
11	Initial	2:15 PM	30.00	7.97	0.01	2.13	0.01
	Final	2:45 PM		7.98			
12	Initial	2:45 PM	30.00	7.98	0.01	2.12	0.01
	Final	3:15 PM		7.99			

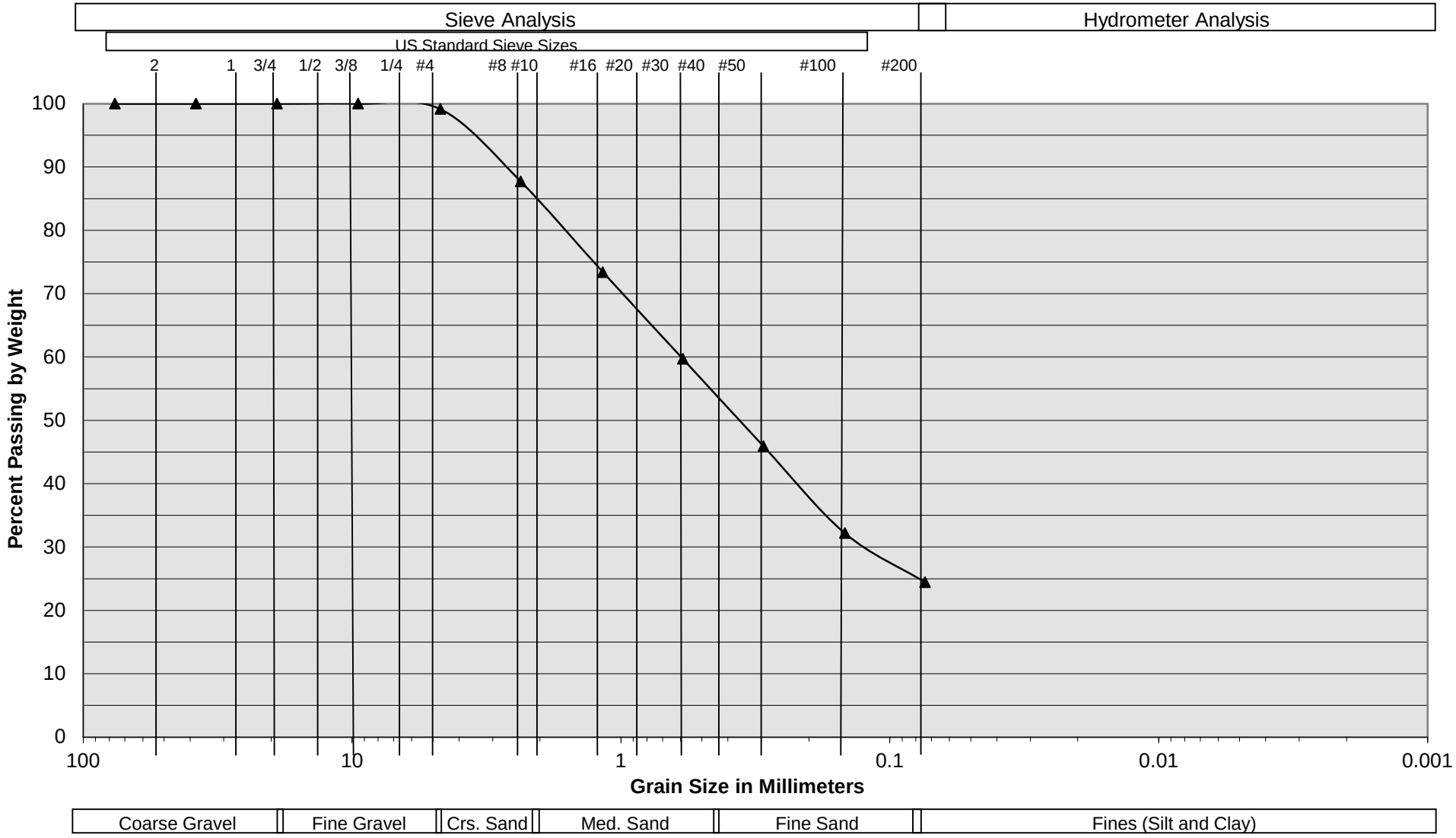
Per County Standards, Infiltration Rate calculated as follows:

$$Q = \frac{\Delta H(60r)}{\Delta t(r + 2H_{avg})}$$

Where:

Q = Infiltration Rate (in inches per hour)
ΔH = Change in Height (Water Level) over the time interval
r = Test Hole (Borehole) Radius
Δt = Time Interval
H_{avg} = Average Head Height over the time interval

Grain Size Distribution

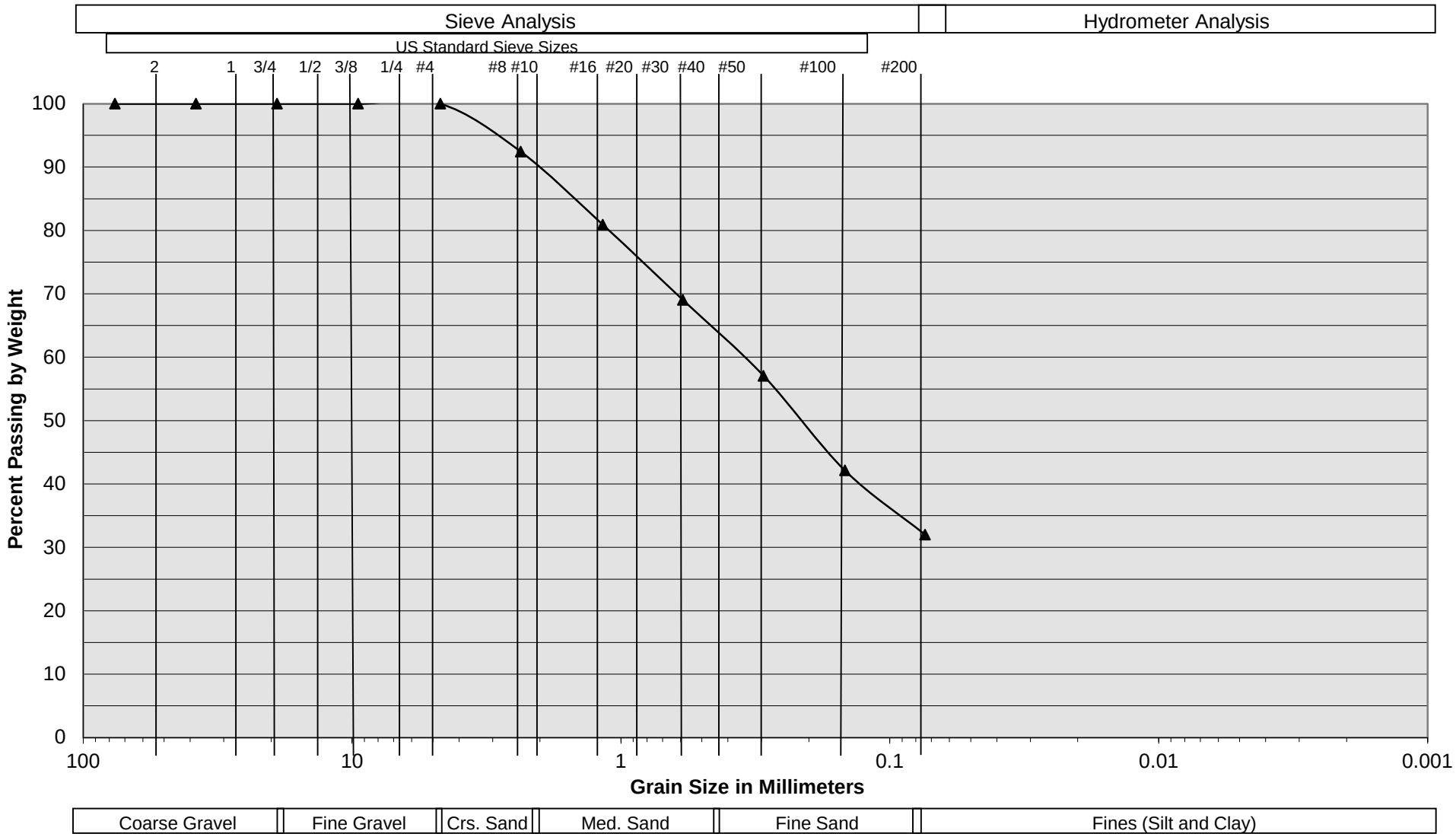


Sample Description	I-1 @ 8.5 to 10'
Soil Classification	ALLUVIUM: Gray Brown Clayey fine to medium Sand, little Silt, little coarse Sand

Proposed Warehouse
Moreno Valley, California
Project No. 21G291-2
PLATE C- 1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Grain Size Distribution



Sample Description	I-2 @ 8.5 to 10'
Soil Classification	ALLUVIUM: Gray Brown Clayey fine Sand, little Silt, trace medium Sand

Proposed Warehouse
Moreno Valley, California
Project No. 21G291-2
PLATE C- 2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Appendix 4: Historical Site Conditions

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

Phase I Environmental Site Assessment

14050 Day Street
Moreno Valley, California 92553

February 19, 2022

First Industrial Realty Trust, Inc., First Industrial, L.P.
First Industrial Acquisitions II, LLC and their Affiliates and Assigns
One North Wacker Drive, Suite 4200
Chicago, IL 60606

Project Number 21-12-022

Prepared by:

Weis ENVIRONMENTAL

1938 Kellogg Avenue, Suite 116
Carlsbad, CA 92008
(760) 585-7070
www.weisenviro.com

1938 Kellogg Avenue, Suite 116, Carlsbad, CA 92008
(760) 585-7070
www.weisenviro.com

February 19, 2022

Jacob Kentnich
First Industrial Realty Trust, Inc.
One North Wacker Drive, Suite 4200
Chicago, IL 60606

Subject: Phase I Environmental Site Assessment
14050 Day Street
Moreno Valley, California 92553
Project Number 21-12-022

Dear Mr. Kentnich:

Weis Environmental, LLC has completed the contracted environmental consulting services for the above-referenced project. The services were performed in accordance with our proposal and agreement fully executed by all parties. The Phase I Environmental Site Assessment has been performed in accordance with American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E1527-21 and Title 40 of the Code of Federal Regulations (40 CFR) Part 312. This assessment was also completed in accordance with the First Industrial Realty Trust Scope of Work for Phase I ESAs. We appreciate the opportunity to be of service to you on this project. Please contact us if you have any questions or comments regarding this report or if we can be of further assistance.

Sincerely,

Weis Environmental, LLC

Daniel Weis. R.E.H.S.
Environmental Manager

TABLE OF CONTENTS

FIGURES

APPENDICES

1.0 INTRODUCTION

This report presents the methods and findings of a Phase I Environmental Site Assessment (ESA) of the property located at 14050 Day Street and identified by Riverside County Assessor's Parcel Number (APN) 297-130-036 in the City of Moreno Valley, California (Subject Property) performed in conformance with the contract/agreement for this assignment and the scope and limitations of ASTM Standard Practice E1527-21 and United States Environmental Protection Agency (EPA) Standards and Practices for All Appropriate Inquiries (AAI) as published in 40 Code of Federal Regulations (CFR) Part 312. EPA promulgated the AAI rule that became effective in November 2006. An acknowledgment is pending by the EPA that the ASTM E1527-21 practice is consistent with the requirements of AAI and may be used to comply with the provisions of the AAI rule. As such, it should be noted that this report also complies with the previously published ASTM E1527-13 standard and for the purposes of this report, any statement regarding compliance with ASTM1527-21 is also an acknowledgment that the report complies with ASTM E1527-13 and the AAI rule. This assessment was also completed in accordance with the First Industrial Realty Trust Scope of Work for Phase I ESAs.

1.1 Purpose

The purpose of the ASTM E1527-21 practice (framework for this Phase I ESA) is to define good commercial and customary practice in the United States of America for conducting an ESA of a parcel of real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (Title 42 United States Code (U.S.C.) Section 9601)) and petroleum products. As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability (hereinafter, the "landowner liability protections," or "LLPs"): that is, the practice that constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. Section 9601(35)(B).

In defining a standard of good commercial and customary practice for conducting this Phase I ESA of the Subject Property, the goal of the processes established by the ASTM E1527-21 practice is to identify, to the extent feasible, recognized environmental conditions. The term recognized environmental conditions is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. In addition, controlled recognized environmental conditions, historical recognized environmental conditions and/or de minimis conditions, if identified during the completion of the assessment, are discussed herein. Definitions of these terms and other key terminology relevant to the practice are included in Section 14.0 of this report.

1.2 Scope of the Assessment

In general terms, this Phase I ESA included the acquisition of readily available/accessible and practically reviewable regulatory records and historical information, a site reconnaissance, interviews and preparation of this written report of findings. A more detailed description of the four primary components of the Phase I ESA is presented below.

Records Review - A review of Federal, State, Tribal and local standard ASTM and non-ASTM regulatory databases for a myriad of environmental identifiers including but not limited to properties with underground storage tanks (USTs), properties with leaking USTs, properties that have reported spills/releases that did not occur from a leaking UST, businesses that utilize hazardous materials and/or generate hazardous waste and hazardous waste disposal locations. The regulatory review may also include public records requests with one or more Federal, State, Tribal and/or local agencies. A review of historical sources is also completed to help ascertain previous land uses of the property in question and in the surrounding area.

Subject Property Reconnaissance - A property inspection and viewing of adjacent and surrounding properties for conditions that could be recognized environmental conditions.

Interviews - Interviews with present and past owners, operators and/or occupants of a property and local government officials.

Reporting - Evaluation of the information gathered during the completion of the Phase I ESA and the subsequent preparation of a written report.

1.3 Limitations and Exceptions

Concerns regarding liability under the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. 9601 et seq. (CERCLA) and analogous State laws, have been a primary driver for Phase I ESA assignments in commercial real estate transactions. While the ASTM E1527-21 practice can be used in many contexts, a familiarity with CERCLA and its potential LLPs is critical in understanding and applying the ASTM E1527-21 practice. We advise consultation with legal counsel if further inquiry or information is desired.

AAI represents the minimum level of inquiry necessary to support the LLPs. However, it is important to understand that additional inquiry ultimately may be necessary or desirable for legal as well as business reasons depending upon the outcome of this inquiry and the particular risk tolerances of a given user. For example, additional inquiry may assist a user of a Phase I ESA in determining whether he or she would have continuing obligations in the event he or she acquires a given property and may also assist the user in defining the scope of future steps to be taken to satisfy such obligations. In addition, a user may be concerned about business environmental risks or non-scope ASTM considerations that do not fall within the definition of a recognized environmental condition. In addition, this assessment did not include subsurface or other invasive exploration, unless specifically documented herein. Users are also cautioned that Federal, State, Tribal and local laws may impose environmental assessment obligations that are beyond the scope of the ASTM E1527-21 practice.

The evaluation, opinion and conclusions presented herein are based solely on visual observations and regulatory, historical and personal knowledge related information that existed at the time our assessment was completed. The use of the gathered information is exclusively for the purposes outlined in this report and only for the Subject Property. Our firm can make no warranty, either express or implied, except that the services conducted were performed in accordance with generally accepted environmental assessment practices applicable at the time and location of the assessment and that the conclusions of the assessment have been based in part on professional judgment/experience, an interpretation of readily available data and the standard of care normally followed by similar professionals practicing in a similar locale and under similar circumstances. Any opinions presented cannot apply to Subject Property changes of which our firm is unaware and has not had the opportunity to evaluate. In addition, this report cannot feasibly include any evaluation of undocumented activities at the Subject Property or on adjacent or nearby properties. Lastly, a Phase I ESA meeting or exceeding

this practice and completed less than 180 days prior to the date of acquisition of a given property or (for transactions not involving an acquisition) the date of the intended transaction is presumed to be valid.

1.4 Special Terms and Conditions

This Phase I ESA was prepared in accordance with the terms and conditions of the contract/agreement for the work as executed between our firm and the client. There are no other special terms and conditions established between our firm and the client pertinent to the findings of this ESA or methodology used to complete this assessment. In addition, our firm has no final or other vested interest in the Subject Property or adjacent/surrounding properties, or in any entity that owns or occupies the Subject Property or adjacent/surrounding properties.

1.5 Limiting Conditions and Deviations

There were no significant limiting conditions that would inhibit our ability to identify recognized environmental conditions noted during the completion of this assessment. In addition, there were no deviations from the ASTM E1527-21 standard noted during the completion of this assessment. Any limiting conditions that are not considered to be ones that would inhibit our ability to identify recognized environmental conditions at the Subject Property are referenced in applicable sections of this report.

1.6 Data Failure and Data Gaps

No instances of data failure were encountered during the completion of this assessment. In addition, no data gaps of significance (i.e., those that would inhibit our ability to identify recognized environmental conditions) were identified during the completion of this assessment. Any data gaps that are not considered to be ones that would inhibit our ability to identify recognized environmental conditions at the Subject Property are referenced in applicable sections of this report.

1.7 Reliance

This report has been prepared for the exclusive use of First Industrial Realty Trust, Inc., First Industrial, LP and First Industrial Acquisitions II, LLC and their Affiliates and Assigns (User). This report may not be relied upon by any other person or entity without the written consent of both our firm and our client. The scope of services performed for this assessment may not be appropriate to satisfy the specific needs of other users, and any use or reuse of this document would be at the sole risk of said users. Any other party seeking liability protection under CERCLA must take independent action to accomplish its objective.

2.0 SUBJECT PROPERTY DESCRIPTION

2.1 Location and Legal Description

The Subject Property is a reported 7.82 acres and located generally north of Cactus Avenue, south of Alessandro Boulevard, east of Day Street and west of Elsworth Street. The Subject Property is further identified by Riverside County APN 297-130-036. A Vicinity Map is included as Figure 1. A Site Plan is included as Figure 2.

2.2 Subject Property and Vicinity Characteristics

The Subject Property is situated in an area of Moreno Valley comprised primarily of commercial and light industrial properties, vacant land, and public roadways. March Air Force Base is situated to the southeast of the Subject Property.

2.3 Current Use of the Subject Property

The Subject Property is currently utilized for rubber recycling, storage, and office space by BAS Recycling, Inc. Specifically, facility operations include the manufacturing of recycled ground rubber from scrap tires. Products produced include playground cover, synthetic sports fields, rubberized asphalt concrete, colorized rubber mulch, injection molded products, and tire-derived aggregate.

2.4 Description of Subject Property Improvements

The Subject Property is developed with a one-story light industrial warehouse building with a mezzanine level. The building is an estimated 63,000 square feet and was reportedly constructed in 1973. The structure appears to be of corrugated steel construction and situated on a concrete slab-on-grade foundation. Two 11,000-gallon refrigerated nitrogen above-ground storage tanks are located along the northern exterior of the structure. Various equipment associated with Subject Property operations are present throughout the interior of the building and portions of the exterior lot areas. Other portions of the Subject Property consist of asphalt- and concrete-paved driveways, parking and storage areas, shipping/receiving areas, and minor landscaping. Access to the Subject Property is provided by Day Street. Indicators of various utility systems are also present throughout the Subject Property.

2.5 Utilities

Utilities that are reported to be present at the Subject Property or provide service in the surrounding area are noted below along with their municipal provider where applicable.

Utility	Provider (Where Applicable)
Potable Water	Eastern Municipal Water District
Sewage Maintenance	City of Moreno Valley
Electrical	Southern California Edison
Natural Gas	Southern California Gas
Solid Waste Disposal	City of Moreno Valley

2.6 Description of Adjoining Properties

Adjoining properties are defined as any real property or properties, the border of which is contiguous or partially contiguous with that of the subject property of a Phase I ESA, or that would be contiguous or partially contiguous with that of a subject property but for a street, road, or other public thoroughfare separating them. To the extent feasible, our firm performed a visual inspection of adjoining properties from the Subject Property boundaries and along public right of ways. We did not encroach on to adjoining private property during the completion of this assessment. The following table identifies the adjoining property uses:

Direction	Adjoining Property Use
North	Light industrial/commercial property (22101 Alessandro Boulevard).
South	Light industrial property (22150 Goldencrest Drive).
East	Light industrial/commercial property (22201 Alessandro Boulevard).
West	Day Street then light industrial property and storage yard (21921 Alessandro Boulevard).

2.7 Summary Relative to Environmental Concerns

No recognized environmental conditions were noted in connection with the land use of the Subject Property and improvements at the Subject Property. In addition, the land uses of adjoining properties and properties in the vicinity of the Subject Property do not represent recognized environmental conditions to the Subject Property.

3.0 PHYSICAL SETTING

3.1 Topography

The Subject Property is depicted on the United States Geological Survey (USGS) topographic map for the Riverside East, California 7.5-minute quadrangle. The Subject Property is shown on the map as being situated at an elevation of approximately 1,560 feet above mean sea level. The Subject Property and surrounding area appear to trend slightly to the west. There are no improvements or structures depicted on the Subject Property on the map. Adjoining and surrounding roadways are depicted on the map. The Subject Property as depicted on a topographic map is included as Figure 3.

3.2 Hydrology

The Subject Property is situated within the Tequesquite Hydrologic Unit Code 12 watershed and the Perris South Hydrologic Area. An unlined drainage swale is present along the western and southern perimeters. There are no known substantial hydrologic features at the Subject Property including major storm drain inlets or drainages, channels, or surface waters. Infiltration of precipitation can be expected in limited areas of the Subject Property due to its primarily improved nature. Any excess water would appear to flow as surface runoff to the west and streets/roadways and surrounding areas of lower elevation. The Subject Property does not appear to receive significant drainage from off-site properties.

3.3 Geology

General geologic information pertaining to the Subject Property is presented in the table below.

Geologic Consideration	Details
California Geomorphic Province	Peninsular Ranges.
Mapped Soils or Formation	Very old alluvial fan deposits. Unconsolidated and semi-consolidated.
Description of Soils or Formation	Slightly to moderately consolidated silts, sands, clays and gravel.
Distance/Direction to Mapped Faults	No known faults are present on the Subject Property. An unnamed mapped fault is located approximately two miles southwest of the Subject Property. The nearest fault zone is the San Jacinto Fault Zone approximately 7.5 miles northeast of the Subject Property.

3.4 Hydrogeology

General hydrogeologic information pertaining to the Subject Property is presented in the table below.

Hydrogeologic Consideration	Details
Groundwater Basin or Unit	Perris South Hydrologic Area.
Beneficial Uses	Municipal and agricultural.
Estimated Depth to Groundwater	Greater than 30 feet below the surface.

Hydrogeologic Consideration	Details
Estimated Flow of Groundwater	South to southwest.
Known Subject Property or Regional Groundwater Contamination Issues	The March Air Force Base National Priorities List (NPL) site is located to the southeast of the Subject Property (cross to down gradient). March Air Force Base is not considered to be a recognized environmental condition to the Subject Property.

3.5 Oil and Gas Exploration

According to online resources provided by the California Department of Conservation, Geologic Energy Management Division (CalGEM), there are no oil, gas or geothermal wells located on the Subject Property or its adjacent properties.

3.6 Summary Relative to Environmental Concerns

No recognized environmental conditions were noted in connection with Subject Property physical setting considerations. In addition, physical setting considerations related to the adjoining properties and properties in the vicinity of the Subject Property do not represent recognized environmental conditions to the Subject Property.

4.0 USER PROVIDED INFORMATION

A representative of the User of this report was interviewed during the completion of this assessment. The questions posed during the interview are defined by the ASTM E1527-21 practice. The User also provided our firm with any land title records and judicial records that may be available for the Subject Property as part of the required evaluation for environmental liens and activity and use limitations (AULs) in connection with the subject property of a Phase I ESA. As stated in the ASTM E1527-21 practice, it is the responsibility of the user of the report to provide any available records pertaining to environmental liens and AULs that may exist in connection with a given property. Any land title and judicial records provided to our firm are discussed below. If such information is not discussed in the sections below, it was not provided by the user of the report.

In addition to the contact information obtained, the user of the report was also asked if they are aware of other useful documents that may exist and if so whether copies can be provided to the environmental professional within reasonable time and cost constraints. A list of typical useful documents is included in Section 10.8.1 of the ASTM E1527-21 practice and include but are not limited to environmental assessment reports, compliance audits and permits, registrations for tank and other aboveground or underground systems, safety plans, spill prevention and other facility related plans and geological/geotechnical studies and environmental governmental agency notices and/or correspondence.

4.1 Title Records

The User provided an ALTA/ACSM Land Title Survey for the Subject Property dated December 18, 2007. The ALTA survey identifies a high-pressure gas line easement crossing the southern portion of the Subject Property from east to southwest. The easement for a pipeline and incidental purposes was recorded June 4, 1948. No environmental liens, deed restrictions or AULs are noted. The survey is included in Appendix A.

4.2 Environmental Liens

The User is unaware of environmental liens in connection with the Subject Property.

4.3 Activity and Use Limitations

The User is unaware of AULs in connection with the Subject Property.

4.4 Specialized or Actual Knowledge or Experience

The User is unaware of specialized knowledge, actual knowledge or experience that is material to recognized environmental conditions in connection with the Subject Property.

4.5 Commonly Known or Reasonably Ascertainable Information

The User is unaware of commonly known or reasonably ascertainable information within the local community that is material to recognized environmental conditions in connection with the Subject Property.

4.6 Valuation Reduction for Environmental Issues

The User is unaware of information pertaining to an undervalued purchase price of the Subject Property relative to the estimated fair market value of the Subject Property due to the presence of contamination.

4.7 Owner, Property Manager, and Occupant Information

The Subject Property is currently owned and managed by First Industrial Realty Trust (owner since 2008). The Subject Property is currently occupied by BAS Recycling, Inc.

4.8 Reason for Performing Phase I ESA

The User has commissioned this Phase I ESA to assist the client in complying with 40 CFR Part 312.

4.9 Proceedings Involving the Subject Property

The User is unaware of pending, threatened, or past litigation and administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Subject Property. The client is also unaware of notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products in connection with the Subject Property.

4.10 Other Provided Documents

The following prior Phase I and II ESAs performed for the Subject Property were provided by the client:

- United Strategies, Inc. 2002. Phase I Environmental Site Assessment, 14050 Day Street, Moreno Valley, CA 92553, County of Riverside. Authorized by and prepared for: Tom Powell, Thor-California, Inc. July 2002.
- LFR, Inc. 2007. Phase I Environmental Site Assessment, Thor California, Inc., 14050 Day Street, Moreno Valley, California 92553. Prepared for: First Industrial Realty Trust and First Industrial, L.P. December 12, 2007.
- LFR, Inc. 2008. Soil Investigation Report, Thor California Property, 14050 Day Street, Moreno Valley, California 92553. Prepared for: First Industrial Realty Trust, First Industrial, L.P., and First Industrial Investment, Inc. January 15, 2008.
- Global Realty Services Group. 2011. Phase I Environmental Site Assessment, Property Reference: 14050 Day Street, Moreno Valley, CA. Prepared for: First Industrial, L.P. February 28, 2011.

In 2002, United Strategies, Inc. prepared a Phase I ESA on behalf of Thor-California, Inc. for the Subject Property. The assessment included a property reconnaissance, interviews with knowledgeable personnel, public records review, environmental database search, and review of historical documentation. At the time of the assessment, the Subject Property was owned and occupied by Maestro Products, Inc. a manufacturer of window products. Other Subject Property operations and uses included office space, storage, a paint booth, and clean room. Off-site findings included four leaking USTs within approximately one quarter mile and the March Air Force Base NPL site just beyond one quarter mile to the south of the Subject Property. These findings were considered de minimus conditions. No recognized environmental conditions were identified.

LFR, Inc. prepared a Phase I ESA and Soil Investigation Report on behalf of First Industrial Realty Trust. The Phase I ESA was performed in general accordance with ASTM Standard E1527-05 and consisted of a site reconnaissance, drive-by observations of adjacent properties, review of previous reporting, interviews with knowledgeable personnel, review of historical documentation, and review of federal, state, and local regulatory databases. Findings, relevant information, and conclusions presented in the LFR, Inc. Phase I ESA included the following:

- At the time of the ESA, the Subject Property was being vacated by Thor California, Inc. who assembled travel trailers. The Subject Property was improved with a 63,000-square foot, single-story warehouse building. The Subject Property was vacant land from at least 1901 to 1967 with Subject Property operations beginning in approximately 1973. Previous Subject Property occupants included Maestro Products, Inc. a window products manufacturer, Rohr Industries, Inc. an aircraft engine component manufacturer, and Redman Homes, Inc. a builder of modular homes.
- During the Subject Property reconnaissance, three square-shaped concrete patches with concrete-filled suspected drains were observed in the northeast side of the warehouse building. Exact historical use at these patched locations was unknown. These features were identified as a suspected environmental concern.
- A bermed storage area and concrete pad were observed in the northwest portion of the Subject Property and adjacent to the western side of the warehouse building, respectively. No information of past use of these areas was identified. These features were identified as suspected environmental concerns.
- The limited information identified concerning past occupant activities, in particular Rohr Industries, Inc., was considered a historical environmental concern.
- Stained gravel (suspected motor oil) and stained concrete (suspected oil) were observed in the southern Subject Property exterior, compressor, and the trash compactor area. These were considered de minimus conditions.

Based on the above findings, a soil investigation was performed by LFR, Inc. The general scope of work and associated findings and conclusions were as follows:

- Soil borings and sampling were completed at the Subject Property in the building interior and Subject Property exterior targeting areas of concern and stormwater drainage features identified during the 2007 Phase I ESA.
- Thirty-five (35) soil samples were collected from 12 boring locations at depth of up to 15 feet below ground surface. The five-foot sample from each boring was analyzed for gasoline-, diesel-, and motor oil-range total petroleum hydrocarbons (TPH-g, TPH-d, and TPH-mo, respectively), metals, and volatile organic compounds (VOCs).
- TPH-mo was detected at a concentration of 25 milligrams per kilogram in a sample collected at the northwest corner of the Subject Property. TPH-g, TPH-d, and TPH-mo were not detected above reporting limits in other samples. The detection of TPH-mo is considered to be insignificant.
- Trace metals were detected in samples at concentrations below both the Total Threshold Limit Concentrations and ten times the Soluble Threshold Limit Concentrations. Detected metals

concentrations were considered to be representative of local soil background concentrations in the Subject Property vicinity.

- VOCs were not detected above reporting limits in the collected samples.
- Based on the detected constituent concentrations, no further investigation of the Subject Property was recommended.

In 2011, Global Realty Services Group prepared a Phase I ESA on behalf First Industrial L.P. for the Subject Property. The assessment was performed in general accordance with ASTM Standard E1527-05 and included a property reconnaissance, interviews with knowledgeable personnel, public records review, environmental database search, review of historical documentation, and a summary of prior environmental assessment reporting. At the time of the assessment, the Subject Property was owned by First Industrial and occupied by BAS Recycling, Inc. a recycler of scrap tires and manufacturer of various recycled rubber products. Other Subject Property operations and uses included office space and storage. Hazardous materials identified included gear oil, paint, grease, and non-RCRA hazardous wastes including residual oil, grease, and water-based binder glue (Poly Bond). Wastes produced on-Subject Property were disposed of and collected by certified hazardous waste haulers on a periodic basis. An active National Pollutant Discharge Elimination System (NPDES) permit for regulating and controlling surface water discharge during storm events was identified for the Subject Property. Off-site and historical findings were consistent with prior reporting. No recognized environmental conditions were identified. Based on the Phase I ESA findings, no additional action or assessment were recommended.

In addition to the prior environmental assessment reports, the User provided asbestos containing material and mold survey documentation related 2021 post-fire restoration activities. Survey and restoration activities were performed by BluSky Restoration Contractors, LLC and their subcontractors. Asbestos containing dry-wall was completely removed from the Subject Property building and building materials affected by water damage were also confirmed to be removed. The work areas were cleared for reoccupancy at the completion of the work. In addition, a report of sampling and analysis of contained water resulting from extinguishing the former fire at the Subject Property was provided to our firm. Metals and VOCs were evaluated and no concerns were identified in the water relative to such compounds.

4.11 Summary Relative to Environmental Concerns

No recognized environmental conditions were noted in connection with the user provided information.

5.0 REGULATORY RECORDS REVIEW

Our firm commissioned the preparation of a regulatory database report from Environmental Risk Information Services (ERIS) as part of the regulatory records review. ERIS searches a myriad of Federal, State, and local government environmental databases during the preparation of their deliverables. Certain databases are specifically required by the ASTM E1527-21 practice and are referenced as "standard ASTM regulatory databases." Such databases are searched to at least the minimum search distance around a given property as defined in the practice. Other regulatory databases are also searched that are not specifically referenced in ASTM E1527-21. Such databases are referenced as "non-ASTM regulatory databases" and are searched as varying radii around a given property as selected by ERIS.

Descriptions of each database searched and the dates that the regulatory databases were last updated by the applicable agencies are included in the ERIS report. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of an updates. ERIS updates databases in accordance with ASTM E1527-21 which states that government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public.

Our firm also reviewed unplottable sites listed in the database report by cross-referencing reasonably ascertainable information pertaining to such properties that may include facility names, street names, zip codes or other information. Unplottable sites are ones that cannot be formally mapped or geocoded due to various reasons, including limited geographic information. Any unplottable sites that we identify within the specified search radii have been evaluated as part of the preparation of this report. A copy of the regulatory database report is included in Appendix B.

5.1 Standard ASTM Regulatory Database Search

The tables below present the standard Federal, State, Tribal and local ASTM databases that were searched by ERIS including the search distances from the Subject Property. Below the tables are descriptions of any listings for the Subject Property that may appear in the databases. In addition, a discussion of adjoining properties or properties in the Subject Property vicinity that are listed in one or more regulatory databases that in our professional judgment and opinion have the potential to adversely impact the Subject Property due to current or former releases of hazardous substances and/or petroleum products that occurred at said properties is presented. This practice of discussing only properties of potential environmental concern to the Subject Property is noted in ASTM E1527-21 which states that the environmental professional may make statements applicable to multiple properties listed in regulatory databases that are not likely to have current or former releases of hazardous substances and/or petroleum products with the potential to migrate to the a given subject property. Our professional judgment and opinions discussed herein are based on several factors including the nature of the regulatory database listings, distance of the off-site listed properties from the Subject Property, orientation of the listed properties relative to the Subject Property, interpreted the direction of groundwater flow and/or regulatory case status information for the various properties as described in the databases.

The following Federal standard ASTM databases were searched:

Standard Environmental Record Source Name	ERIS Regulatory Database Identification	Search Distance From Subject Property (Miles)
National Priorities List (NPL) Site List	NPL – Proposed NPL – Superfund Record of Decision (ROD)	1.0
Delisted NPL Site List	Deleted NPL	0.5
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List	CERCLIS - SEMS – SEMS Archive – ODI – IODI – CERCLIS LIENS – SEMS LIENS	0.5
CERCLIS List	CERCLIS LIENS – SEMS LIENS	Subject Property
CERCLIS No Further Remedial Action Planned (NFRAP) Site List	CERCLIS NFRAP	0.5
Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS) Facilities List	RCRA CORRACTS	1.0
RCRA Non-CORRACTS Treatment, Storage and Disposal (TSD) Facilities List	RCRA TSD	0.5
RCRA Generators List	RCRA LQG – RCRA SQG – RCRA CESQG – RCRA NON-GEN – BULK TERMINAL – REFN – FEMA Underground Storage Tank (UST)	0.25
Institutional Control/Engineering Control Registries	FED ENG – FED INST – FED Brownfields	0.5
Emergency Response Notification System (ERNS) List	ERNS – ERNS 1982 to 1986 – ERNS 1987 to 1989	Subject Property

Subject Property – The Subject Property is listed on the RCRA NON-GEN database as BAS Recycling, Inc., Lakin Tire West LLC, and First Industrial LP. The Subject Property is referenced with Handler IDs of CAL000343884, CAL000464375, CAL003141623, and CAL003142215 and with no reported violations. The Subject Property is not listed on Federal databases indicative of releases of hazardous substances or petroleum products to the subsurface. These listings are not considered to be recognized environmental conditions in connection with the Subject Property.

Adjoining Properties – Two adjoining properties are listed on the standard Federal ASTM regulatory databases as United Natural Foods Inc. (south adjoining 22150 Goldencrest Drive) and C5 Equipment Rentals LLC (west adjoining 21921 Alessandro Boulevard). These adjoining properties are listed on the RCRA NON-GEN database with no reported violations. These adjoining properties are not listed on Federal databases indicative of releases of hazardous substances or petroleum products to the subsurface and are not considered to be recognized environmental conditions to the Subject Property.

Other Properties – There are 15 listings on the standard Federal ASTM regulatory databases pertaining to multiple properties in the surrounding area including RCRA TSD (two listings), RCRA LQG (one listing), RCRA SQG (three listings) and RCRA NON-GEN (nine listings). None of these properties are considered a recognized environmental condition to the Subject Property. Our opinions regarding adjoining and nearby properties are based on the distance of the off-site listed properties

from the Subject Property, orientation of the listed properties relative to the Subject Property, interpreted direction of groundwater flow and/or regulatory case status information for the various properties as described in the databases.

As stated previously, March Air Force Base is situated in the near vicinity of the Subject Property (approximately 0.25 miles to the southeast). The Base was not identified in the ERIS database report due to its associated coordinates being located outside of the one-mile search radius. The base reportedly covers approximately 7,000 acres and has historically served as a training base and refueling operations base. Operations (including aircraft maintenance and repair) reportedly involved use and disposal of various chemicals and wastes including chlorinated solvents. Various areas of concern have been identified and affected by spills/releases from historical base operations. The Air Force is the responsible party for remediation and investigation pursuant to a 1995 Record of Decision under the oversight of the United States EPA, Regional Water Quality Control Board and Department of Toxic Substances Control. Three zones of groundwater contamination beneath the base were identified and wells on base were shut down in the late 1980s and were later properly destroyed. Groundwater contamination has migrated to wells located off base that are no longer in use. However, a groundwater containment system has been installed to prevent off-property groundwater migration and the off-property plume is being monitored. The base's long-term cleanup is ongoing and more recent assessment work in connection with the base has focused on per- and polyfluoroalkyl substances (PFAS) as emerging contaminants of concern.

Primary areas of concern in connection with the base are known as Operable Units (OU). The closest OU to the Subject Property is identified as "OU2-A Site 11 Bulk Fuel Storage Area." and is mapped approximately one-half mile to the southeast of the Subject Property. The myriad of other OUs are situated further from the Subject Property and all are situated hydrologically down-gradient from the Subject Property. Given the distance and location of the Subject Property relative to the various OUs, we have no basis to believe that the Subject Property has been impacted by PFAS or other contaminants resulting from current or former base operations. The March Air Force Base property is not considered to be a recognized environmental condition to the Subject Property.

The following State, Tribal and local standard ASTM databases were searched:

Standard Environmental Record Sources Name	**ERIS Regulatory Database Identification**	**Search Distance From Subject Property (Miles)**
Equivalent NPL	RESPONSE	1.0
Equivalent CERCLIS	ENVIROSTOR – DELISTED ENVS – HWP - HHSS	0.5
Landfill and/or Solid Waste Disposal Site Lists	SWF/LF – LDS – SWAT – SWRCB SWF	0.5
Leaking Storage Tank Lists	LUST – DELISTED LST – UST CLOSURE – CLEANUP SITES – INDIAN LUST – DELISTED ILST – RIVERSIDE LOP	0.5
Registered Storage Tank Lists	UST – AST – DELISTED TNK – CERS TANK – DELISTED CTNK – HIST TANK – INDIAN UST – DELISTED IUST – DELISTED COUNTY – UST RIVERSIDE	Subject Property and Adjoining Properties

Standard Environmental Record Sources Name	ERIS Regulatory Database Identification	Search Distance From Subject Property (Miles)
Institutional Control/Engineering Control Registries	LUR – HLUR - DEED	Subject Property
Voluntary Cleanup Sites	VCP	0.5
Brownfield Sites	Not Applicable – No Database Exists	0.5

Subject Property – The Subject Property is listed on the C&D DEBRIS RECY database as BAS Recycling, Inc., International Mulch Company, and Environmental Molding Concepts LLC. The listings identify business activities as tire-derived product manufacturing. No violations, spills, or releases are reported. The property is not listed on State, Tribal, or local databases indicative of releases of hazardous substances or petroleum products to the subsurface. These listings are not considered to be recognized environmental conditions in connection with the Subject Property.

Adjoining Properties – The following adjoining properties are listed on the State, Tribal and local standard ASTM regulatory databases:

- **United Natural Foods Inc. (22150 Goldencrest Drive)** – This south adjoining property is listed on the CERS TANK database. The database listing identifies minor violations related to the storage, reporting, employee training, and timely disposal of hazardous waste generated at this business. No releases have been reported and this property is not considered to be recognized environmental conditions to the Subject Property.
- **Tractorland Equipment Company / Alessandro Properties (21921 Alessandro Boulevard)** – This west adjoining property is listed on the DELISTED COUNTY, VCP, and ENVIROSTOR databases. This is an approximately 20-acre property used for heavy equipment storage, rental, repair, and maintenance. Notable features include two metal structures, a former dry cleaner along Alessandro Road, extensive soil staining in the western portion, and an equipment wash area with associated clarifier and leach lines. Soil, soil gas, and groundwater investigations at the property began in 2018, are on-going, and have identified contaminant impacts in all three media. Primary historical operations were located along Alessandro Road and Old 215 Frontage Road in the northern and western portions of the property, respectively (non-adjoining to the Subject Property and situated hydrologically down to cross gradient from the Subject Property). The southeastern portion of this property (adjoining the Subject Property) was historically used as a storage yard with no significant environmental concerns identified. This property is not considered to be a recognized environmental condition to the Subject Property.

Other Properties – There are 33 listings on the State, Tribal and local standard ASTM regulatory databases pertaining to multiple properties in the surrounding area including ENVIROSTOR (one listing), C&D DEBRIS RECY (one listing), RECYCLING (six listings), LUST (six listings), UST (one listing), HHSS (two listings), UST SWEEPS (two listings), CERS TANK (one listing), HIST TANK (two listings), DELISTED COUNTY (four listings), LOP RIVERSIDE (six listings), and UST RIVERSIDE (one listing). None of these properties are considered a recognized environmental condition to the Subject Property. Our opinions regarding adjoining and nearby properties are based on the distance of the off-site listed properties from the Subject Property, orientation of the listed properties relative to the Subject Property, interpreted direction of groundwater flow and/or regulatory case status information for the various properties as described in the databases.

5.2 Non-ASTM Regulatory Database Search

A myriad of non-ASTM regulatory databases was searched by ERIS as noted in the regulatory database report.

Subject Property – The Subject Property is listed on the FINDS/FRS, HAZNET, CERS HAZ, WASTE TIRE, RIVERSIDE HZH, and RIVERSIDE HWG non-ASTM regulatory databases as BAS Recycling, Inc. and John Sanga. The listings reference a RCRA EPA ID number of CAL000343884, an expired NPDES Permit No. CAZ428576, and the generation of various hazardous wastes including waste oil, organic solids, and unspecified organic liquid mixtures. Violations related to the NDPES permit are identified between October 2018 and January 2022 and reported on the Subject Property EPA Facility Report as "Other Violation" associated with the expired condition of the NPDES permit. The violations were administrative in nature and did not pertain to releases or other potential contamination. The database listings also identify minor violations related to the storage, reporting, employee training, and timely disposal of hazardous waste generated at the Subject Property. No chlorinated solvents are referenced as being part of Subject Property operations. The Subject Property is routinely inspected by the County of Riverside and only administrative related violations have reportedly been issued. No releases have been reported. These listings are not considered to be recognized environmental conditions in connection with the Subject Property.

Adjoining Properties – Two adjoining properties are listed on one or more of the non-ASTM databases as follows:

- **Redman Homes Inc.** (22201 Alessandro Boulevard) – This east adjoining property is listed on the EMISSIONS database. This property is not listed on databases indicative of releases of hazardous substances or petroleum products to the subsurface. This property is not considered to be a recognized environmental condition to the Subject Property.
- **United Natural Foods, Inc.** (22150 Goldencrest Drive) – This south adjoining property is listed on the RIVERSIDE HZH and HWG databases. These databases identify hazardous waste generation sites and facilities which are disclosed to the local (County of Riverside) Certified Unified Program Agency. This property is not listed on databases indicative of releases of hazardous substances or petroleum products to the subsurface. This property is not considered to be a recognized environmental condition to the Subject Property.

Other Properties – There are 25 listings on the non-ASTM regulatory databases pertaining to multiple properties in the surrounding area that are identified on various databases including FUDS (two listings), MRDS (three listings), CERS HAZ (one listing), DELISTED HAZ (one listing), EMISSIONS (14 listings), RIVERSIDE HWG (two listings), and RIVERSIDE HZH (two listings). None of these properties are considered a recognized environmental condition to the Subject Property. Our opinions regarding adjoining and nearby properties are based on the distance of the off-site listed properties from the Subject Property, orientation of the listed properties relative to the Subject Property, interpreted direction of groundwater flow and/or regulatory case status information for the various properties as described in the databases.

5.3 Regulatory Agency File Reviews

If a property being assessed under a Phase I ESA or any of the adjoining properties are identified on one or more of the above referenced standard environmental record sources, pertinent regulatory files and/or records associated with such listings should be reviewed to assist the environmental professional

in evaluating if recognized environmental conditions existing at a given subject property in connection with any listings. However, if in the environmental professional's opinion, such a review is not warranted, file reviews need not be conducted if the environmental professional provides justification for not doing so.

Agency file reviews for the Subject Property completed during this assessment are noted below. No file reviews for adjoining properties or properties in the surrounding area were deemed warranted with the exception of research completed on the State Water Resources Control Board GeoTracker database regarding properties in the surrounding area of the Subject Property. The agency inquiries were performed by way of on-line searches/queries of published databases and/or direct inquiries with public records clerks at one or more agencies. Both Daniel Weis and Samantha Weis of Weis Environmental conducted the agency file reviews during the completion of this assessment. Copies of regulatory agency records are included in Appendix C.

Regulatory Agency	Jurisdiction	Date of Inquiry or Request	Contact	Response or Information From Agency
United States EPA Envirofacts/ECHO/ TRIS	Federal	01/13/2022	Online https://enviro.epa.gov/ https://echo.epa.gov/facilities/facility-search https://www.epa.gov/toxics-release-inventory-tri-program	Records Identified
California DTSC	State	12/23/2022	Online https://www.envirostor.dtsc.ca.gov/public https://hwts.dtsc.ca.gov/ Public Records Clerk	Records Identified
State Water Resources Control Board/Regional Water Quality Control Board	State	01/13/2022	Online https://geotracker.waterboards.ca.gov/ https://geotracker.waterboards.ca.gov/historical_ust_facilities Public Records Clerk	Records Identified
County of Riverside	Local	12/23/2021	Public Records Clerk	Records Identified
City of Moreno Valley	Local	12/23/2021	Public Records Clerk	Records Identified

United States EPA – Permit Compliance System / Integrated Compliance Information System (PCS/ICIS) and RCRA Info reports were identified for BAS Recycling, Inc. at 14050 Day Street. RCRA EPA Handler ID number of CAL000343884 and an expired NPDES Permit No. CAZ428576 were associated with the Subject Property. Information identified is consistent with the ERIS database report discussed above in Section 5.3.

California DTSC – The DTSC maintains copies of hazardous waste manifests pertaining to wastes removed from the Subject Property between 2010 and 2017. Between one and five manifests were

generated annually at the Subject Property during this period associated with the EPA ID No. CAL000343884. No chlorinated solvents are referenced as being part of Subject Property operations and no releases were reported. Information identified is consistent with the ERIS database report discussed above in Section 5.3.

Regional Water Quality Control Board – NPDES permit information is present in files for the Site, with information consistent with that discussed previously in this report.

County of Riverside – County files reference Thor Manufacturing/California as permitted entities for the Subject Property. The files contain various typical documents pertaining to hazardous waste and materials management including business plans, inventories, permits and inspection reports. Administrative related violations were issued pertaining to employee training, business plan corrections and other typical administrative related formalities. Hazardous wastes and/or materials noted in the files include solvent free paint cleaner, heat transfer oil, antifreeze, compressed gases, wood filler bond, adhesives, propane and diesel fuel (drum). No releases are noted in the County files.

City of Moreno Valley – City records pertaining to the Subject Property as provided to our firm include a list of various permits and documents including but not limited to construction of a new manufacturing building, utilities, signage, a spray booth, dust collection systems, certificates of occupancy and reports regarding a fire related incident and associated building damage. No recognized environmental conditions were noted in the records.

5.4 Summary Relative to Environmental Concerns

No recognized environmental conditions were noted in connection with the regulatory records searches. In addition, regulatory resources related to the adjoining properties and properties in the vicinity of the Subject Property do not represent recognized environmental conditions to the Subject Property.

6.0 HISTORICAL RESOURCE REVIEW

The objective of consulting historical sources is to develop a history of the previous uses of a property and surrounding area, in order to help identify the likelihood of past uses having led to recognized environmental conditions in connection with a given property. The goal of the historical research is to identify all obvious uses of a subject property from the present, back to the property's first developed use, or back to 1940, whichever is earlier. The environmental professional exercises professional judgment in reviewing only as many of the standard historical sources referenced in ASTM E1527-21 that are deemed necessary, are reasonably ascertainable and are likely to be useful. Historical resources reviewed during the completion of this assessment are referenced below. Copies of the historical resources are included in Appendix D.

6.1 Aerial Photographs

We reviewed historical aerial photographs from the years 1938, 1953, 1967, 1977, 1989, 1994, 2002, and obtained by EDR. The table below presents the results of the photograph review.

Photograph Year	Subject Property Observations	Adjoining Property Observations
1938	The Subject Property is vacant land and potentially used for pasture purposes.	Adjoining properties are vacant and also potentially used for pasture purposes.
1953	A dirt road and graded area are present in the western portion of the Subject Property.	The western adjoining property has been graded and a dirt road is visible.
1967	The Subject Property is vacant. The graded area and dirt road are no longer visible.	The graded area and dirt road at the western adjoining property are no longer visible.
1977	The Subject Property structure is present. Surrounding areas are used as parking and minor storage.	Structures at the northern and eastern adjoining commercial/light industrial properties are present in current configurations.
1989 - 2005	The Subject Property is in its current configuration.	The western adjoining property is graded and fenced for use as a storage yard.

6.2 Topographic Maps

We reviewed topographic maps from the years 1901, 1947, 1953, 1967, and 1973 obtained by EDR.

- Beginning in 1901 until 1947, no structures or other features are depicted on the Subject Property or adjoining properties.
- In 1953 to 1973, an unspecified pipeline is depicted crossing the southern portion of the Subject Property. Review of historical aerial photographs suggests this pipeline was actually located south of the Subject Property.
- In 1973, the Subject Property structure is depicted. Structures at the northern and eastern adjoining properties are present and consistent with current configurations.

6.3 City Directories

We reviewed city directories dated ranging in date from 1971 to 2020 provided by ERIS. The Subject Property is first listed as Maestro Products, Inc. in 1998 to 2001 and later as Thor CA Mirage Division in 2006. Beginning in 2012, BAS Recycling, Inc. and a business identified as Environmental Molding Concepts are listed. Adjoining properties are not listed in the reviewed directories. None of the listings are considered a recognized environmental condition to the Subject Property.

6.4 Other Historical Sources

Other historical sources are referenced in the ASTM E1527-21 practice as any source or sources other than the standard historical sources referenced in the practice that are credible to a reasonable person and that identify past uses of a subject property. This category includes, but is not limited to miscellaneous maps and directories, newspaper archives, internet sites, community organizations, local libraries, historical societies, current owners or occupants of neighboring properties, or records in the files and/or personal knowledge of the property owner and/or occupants. No historical sources other than the standard sources described above were deemed necessary and useful to assist in identifying recognized environmental conditions.

6.5 Summary Relative to Environmental Concerns

No recognized environmental conditions were noted in connection with the historical resources reviewed. In addition, historical resources related to the adjoining properties and properties in the vicinity of the Subject Property did not reveal recognized environmental conditions to the Subject Property.

7.0 SUBJECT PROPERTY RECONAISSANCE

The objective of the Subject Property reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with a subject property. The Subject Property visit for our assessment was completed on January 12, 2022, by Daniel Weis. We were unaccompanied during the reconnaissance.

7.1 Methodology and Limiting Conditions

The Subject Property reconnaissance consisted of observing the Subject Property on foot via various transects and walking publicly accessible areas surrounding the Subject Property. The interior of the primary Subject Property building was also accessed. No significant limiting conditions of the Subject Property inspection were noted. Select photographs of the Subject Property obtained during the Subject Property reconnaissance are included in Appendix E.

7.2 Current General Subject Property and Vicinity Characteristics

The Subject Property is situated in an area of Moreno Valley comprised primarily of commercial and light industrial properties, vacant land, and public roadways. March Air Force Base is situated to the southeast of the Subject Property. The Subject Property is currently utilized for rubber recycling, storage, and office space by BAS Recycling, Inc. Specifically, facility operations include the manufacturing of recycled ground rubber from scrap tires. Products produced include playground cover, synthetic sports fields, rubberized asphalt concrete, colorized rubber mulch, injection molded products, and tire-derived aggregate. The current use of the Subject Property and adjoining properties are not ones that are indicative of the use, treatment, storage disposal or generation of hazardous substances or petroleum products that may have impacted the Subject Property.

7.3 Indications of Past Subject Property and Vicinity Uses

There are no material differences between the current and past uses of the Subject Property, adjoining properties and the surrounding area Subject Property that were visually and/or physically observed during the Subject Property reconnaissance that pertain to recognized environmental conditions.

7.4 Subject Property-Specific Observations

We examined the Subject Property for the features and conditions noted in the table below.

Feature or Condition	Details
General Description of Structures	The Subject Property is developed with a one-story light industrial warehouse building with a mezzanine level. The building is an estimated 63,000 square feet and was reportedly constructed in 1973. The structure appears to be of corrugated steel construction and situated on a concrete slab-on-grade foundation. Two 11,000-gallon refrigerated nitrogen above-ground storage tanks are located along the northern exterior of the structure. Various equipment associated with Subject Property operations are present throughout the interior of the building and portions of the exterior lot areas. Other portions of the Subject Property consist of asphalt- and concrete-paved driveways, parking and storage areas, shipping/receiving areas, and minor landscaping. Access to the Subject Property is provided by Day Street. Indicators of various utility systems are also present throughout the Subject Property.
Drains and Sumps	Typical exterior area drains and interior floor drains are present at the Subject Property. No staining, odors or other suspect conditions were noted.
Heating/Cooling Systems	Conventional roof-mounted systems.
Potable Water Supply	Eastern Municipal Water District.
Roads	Access to the Subject Property is from Day Street.
Septic Systems / Sewage Disposal System	Eastern Municipal Water District.
Wastewater and Stormwater Discharges	None observed.
Wells	None observed.
Drums	Several 55-gallon drums are present at the Subject Property. There is a small canopy area above a concrete slab that is used for the storage of used oil. Five 55-gallon drums and one approximately 15 to 20 gallon drums were observed in this area. Three of the 55-gallon drums were on a secondary containment pallet. The other three drums were on the concrete paving. Several 55-gallon drums of polyurethane binder were also observed on pallets within the Subject Property building and a few empty 55-gallon plastic drums used to store trash and general refuse were observed in the exterior lot areas. No significant staining, odors or other suspect conditions were noted.
Electrical or Hydraulic Equipment Known to Contain PCBs or Likely to Contain PCBs	None observed.
Hazardous Substances and Petroleum Products in Connection with Identified Uses	Please refer to the "drums" section above. Several five-gallon buckets of oil/petroleum and bonding related products were also observed within interior and exterior areas of the Subject Property. Several locked cabinets are also present within the Subject Property building. According to the Subject Property tenant representative, these cabinets are either empty or used to store retail-sized containers of oil, paint and bonding/adhesive related products. No significant staining, odors or other suspect conditions were noted.
Hazardous Substance and Petroleum Products Not Necessarily in Connection With Identified Uses	None observed.

Feature or Condition	Details
Odors	None noted.
Pits, Ponds or Lagoons	None observed.
Pools of Liquid	None observed.
Solid Waste (Including Fill Material)	Stored in conventional dumpsters. In addition, several piles of shredded tires, various pieces of equipment (some non-operational) and various debris are present throughout the exterior areas of the Subject Property. No significant staining, odors or other suspect conditions were noted.
Stained Soil or Pavement	A relatively limited area of concrete stained with oil is present adjacent to the drums within the canopy area in the northwest corner of the Subject Property. This is considered to be a de mimimus condition. Typical oil staining (also de minimus) was also observed in several interior and exterior areas of the Subject Property (asphalt and concrete paved surfaces).
Stains or Corrosion	None observed.
Chemical Storage Tanks	Two 11,000-gallon refrigerated nitrogen above-ground storage tanks are located along the northern exterior of the structure. These are not considered to be recognized environmental conditions.
Stressed Vegetation	None observed.
Unidentified Substance Containers	None observed.

7.5 Summary Relative to Environmental Concerns

No recognized environmental conditions were noted in connection with the current use of the Subject Property during the Subject Property reconnaissance. In addition, no current uses of the adjoining properties or properties in the surrounding area that were visually and/or physically observed during the Subject Property reconnaissance were noted as recognized environmental conditions to the Subject Property.

8.0 INTERVIEWS

8.1 Subject Property Owner

The Subject Property is currently owned and managed by First Industrial Realty Trust (owner since 2008). The owner is unaware of environmental concerns in connection with the Subject Property.

8.2 Key Site Manager

The Subject Property owner is also considered to be the Key Site Manager. Please refer to Section 8.1 above.

8.3 Current Occupants

The Subject Property is currently occupied by BAS Recycling, Inc. A representative of the tenant was interviewed during the Subject Property reconnaissance and is unaware of environmental concerns in connection with the Subject Property.

8.4 Local Government Official

During the preparation of this assessment, public records clerks from the City of Moreno Valley, State of California and Riverside County were contacted by our firm regarding the Subject Property. Agency representatives indicated that public records requests should be conducted in order to obtain information known by the agencies regarding the Subject Property. Public records requests were completed by our firm as described in Section 5.3.

8.5 Other Parties

Interviews with other persons were not conducted during the preparation of this assessment. As stated in the ASTM E1527-21 practice, interviews with past owners, operators and occupants of a subject property who are likely to have material information regarding the potential for contamination at a given property shall be conducted to the extent that they have been identified and that the information likely to be obtained is not duplicative of information already obtained from other sources. Interviews with persons with past association with the Subject Property were not deemed warranted during the completion of this assessment.

8.6 Summary Relative to Environmental Concerns

No recognized environmental conditions were noted in connection with the interviews completed during the assessment.

9.0 ADDITIONAL SERVICES – NON-SCOPE ASTM CONSIDERATIONS

Several non-scope ASTM considerations are referenced in the ASTM E1527-21 practice that a user of a report may wish to evaluate. Listed considerations in the practice include asbestos-containing building materials, biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality (unrelated to releases of hazardous substances or petroleum products into the environment), industrial hygiene, lead-based paint, lead in drinking water, mold, radon, regulatory compliance and wetlands. No implication is intended by the practice as to the relative importance of inquiry into such non-scope considerations, and the list of considerations is not intended to be all-inclusive.

Asbestos and Lead-Based Paint – An asbestos and lead-based paint survey has been prepared and submitted to the client under separate cover. No asbestos was identified and minimal lead-based paint identified was in fair to good condition and does not require abatement prior to future demolition activities.

Landmark/Historical/Cultural Significance Review - Archeological/cultural and paleontological assessments of the Subject Property have been completed concurrently with this Phase I ESA. The results of the studies have been provided to the client under separate cover. No significant findings were reported.

Lead in Drinking Water - According to the most recent water quality report prepared by the Eastern Municipal Water District, the drinking water supplied to the area is in compliance with all Federal and State regulations.

National Pollution Discharge Elimination System (NPDES) – The Subject Property has been subject to the California State Water Resources Control Board general NPDES permit for industrial activities since 2012. There have been no reported incidents of substantial noncompliance associated with the Subject Property. Reported violations were administrative in nature and did not pertain to releases or other potential contamination. The current notice of intent for permitted activities was filed by Lakin Tire West LLC/BAS Recycling in July 2021.

PFAS – There are no historical or current Subject Property or adjoining property uses that are indicative of scenarios where releases of such compounds have occurred.

Pipelines – Based on a review of the National Pipeline Mapping System. No pipelines used for the conveyance of oil, gas or other hazardous substances are present at the Subject Property. A natural gas pipeline is mapped just south of the Subject Property.

Radon Potential - The Subject Property is located within United States EPA Radon Zone 2 which has predicted average indoor levels of radon between 2 and 4 picocuries per liter. Radon is not considered to be a concern at the Subject Property.

Wellfield/Groundwater Protection Areas – The Subject Property is not situated in a known wellfield/groundwater protection area.

Wetlands and Threatened/Endangered Species - A biological assessment of the Subject Property has been completed concurrently with this Phase I ESA. The results of the study have been provided to the client under separate cover. No wetlands were noted at the Subject Property and no significant biological findings were reported.

No other additional services were completed by our firm during the preparation of this assessment.

10.0 FINDINGS AND OPINIONS

No features and/or conditions indicating the presence or likely presence of hazardous substances and/or petroleum products at the Subject Property that are considered to have the potential to adversely impact the Subject Property were identified during the completion of this assessment.

11.0 CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM International Practice E1527-21 of the Subject Property located at 14050 Day Street in the City of Moreno Valley, California (Riverside County APN 297-130-036). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report. This assessment has revealed no evidence of recognized environmental conditions, controlled recognized environmental conditions or historical recognized environmental conditions in connection with the Subject Property. Additional assessment at the Subject Property is not considered to be warranted at this time.

12.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in Section 312.10 of 40 CFR. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Qualifications of personnel involved with the completion of this report are included in Appendix F.

Daniel Weis, R.E.H.S.
Environmental Manager

13.0 ASSUMPTIONS

No Phase I ESA effort can eliminate uncertainty regarding the potential for recognized environmental conditions to exist in connection with a given property. Performance of the ASTM E1527-21 practice may reduce such uncertainty but in no way should the findings and report be misconstrued as insurance or a guarantee regarding the potential for recognized environmental conditions in connection with a given property. The ASTM E1527-21 practice recognizes reasonable limits of time and cost relative to the completion of a Phase I ESA.

During the completion of this ESA, our firm relied on certain information obtained from secondary sources, including but not limited to the user of the report, government agencies, historical research business entities, environmental databases, and interviews with one or more persons. The sources obtained and/or consulted are assumed to be reliable. However, our firm cannot warranty or guarantee that the information provided by these other sources is wholly accurate or complete. Our firm is not responsible for any misrepresentations or false statements that may be provided by others or the lack of pertinent/relevant information that should have been provided/disclosed by others and we assume no responsibility for any consequence as a result of such omissions or withheld information.

Accuracy and completeness of records varies among information sources, including from governmental agencies. As a result, there is a possibility that even with the proper application of the methodologies presented in ASTM E1527-21, conditions may exist that could not be identified within the scope of this assessment or which were not reasonably identifiable from the available information. In addition, any responses received from Federal, State, Tribal, and local regulatory agency secondary sources of information after the issuance of this report may change certain findings and conclusions of this report.

Estimations and opinions regarding the potential for off-site properties to adversely impact a given subject property is one of the key components of a Phase I ESA. In most cases, recent property-specific or adjacent-property specific measured groundwater data or other hydrogeological information is not reasonably ascertainable. In the absence of such data, reasonable assumptions regarding the depth and flow of groundwater are made based on various sources including comparisons to surface elevations, land topography and available hydrogeological on the State of California Geotracker database. In addition, estimations and opinions regarding potential impacts from off-site locations may be based on certain assumptions that a hazardous substance or petroleum product may not migrate laterally within unsaturated soil for a substantial distance and that contaminants that have reached saturated soil and groundwater may attenuate over time and/or may decrease in concentration relative to distance from its source. While any interpretations presented herein may be effective in reducing uncertainty regarding potential impacts to a subject property from off-site locations, in no way should the findings and report be misconstrued as insurance or a guarantee regarding the potential for such impacts to occur. Greater certainty regarding subsurface conditions at a given property can only be achieved by way of a subsurface sampling effort of one or more media.

14.0 DEFINITIONS

Definitions of key terminology relevant to the ASTM E1527-21 practice are presented below.

Recognized Environmental Condition - The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

Controlled Recognized Environmental Condition - A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

Data Failure - A failure to achieve the historical research objectives as outlined in the ASTM E1527-21 practice even after reviewing the standard historical sources that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.

Data Gap - A lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by the ASTM E1527-21 practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.). Data gaps are only considered to be significant if they affect the ability of the environmental professional to identify recognized environmental conditions.

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

Environment - (A) the navigable waters, the waters of the contiguous zone, and the ocean waters of which the natural resources are under the exclusive management authority of the United States under the Magnuson-Stevens Fishery Conservation and Management Act [16 U.S.C. §§ 1801 et seq.], and (B) any other surface water, groundwater, drinking water supply, land surface or subsurface strata, or ambient air within the United States or under the jurisdiction of the United States.

Good Faith - The absence of any intention to seek an unfair advantage or to defraud another party; an honest and sincere intention to fulfill one's obligations in the conduct or transaction concerned.

Hazardous Substance - Includes hazardous substances designated under section 311 of the Clean Water Act (CWA) or Section 102 of CERCLA, any toxic pollutant listed under Section 307(a) of the CWA, any waste that has been listed as a RCRA hazardous waste or possesses a RCRA hazardous waste characteristic, any substance that is identified as a hazardous pollutant under Section 112 of the Clean Air Act (CAA), and any imminently hazardous chemical that EPA has taken action pursuant to Section 7 of the Toxic Substances Control Act (TSCA).

Historical Recognized Environmental Condition - A past release of any hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority or

meeting unrestricted use criteria established by a regulatory authority, without subjecting the property in question to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

Petroleum Exclusion – While the definition of a CERCLA hazardous substance specifically excludes petroleum products and crude oil, the EPA has determined that the petroleum exclusion applies to petroleum products such as gasoline and other fuels containing lead, benzene or other hazardous substances that are normally added during the refining process. Notwithstanding the existence of the petroleum exclusion, petroleum products are included within the scope of the ASTM E1527-21 practice for multiple reasons. Petroleum products have historically been widely used at commercial properties. In addition, other federal and state laws may impose liability for releases or spills of petroleum products.

Reasonably Ascertainable Information - Information that is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints and (3) practically reviewable.

Release or Threatened Release - Spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping or disposing into the environment (including the abandonment or discarding of barrels, containers and other closed receptacles containing any hazardous substance, or pollutant or contaminant).

15.0 REFERENCES

Sources of information consulted during the completion of our Phase I ESA are noted in the sections below.

15.1 Documents, Plans and Reports

- All Appropriate Inquiry" as necessary to satisfy the defenses available under 42 U.S.C. §§ 9607(b)(3), 9607(r)(1), and 9607(q), relying on definitions provided at 42 U.S.C. §§ 9601(35)(B); and as further explained in 40 CFR §§ 312.1 – 312.31.
- ASTM International, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM Designation E 1527-21, 2021
- California Geological Survey, 2002, California Geomorphic Provinces Note 36, Electronic Copy, Revised December.
- California State Water Resources Control Board, Water Quality Control Plan for the Santa Ana River Basin (8), California, Published 2008.
- ERIS Database Report dated December 29, 2021.
- ERIS City Directory Report dated January 4, 2022.
- Prior environmental reports noted in Section 4.10.
- USGS topographic map, Riverside East, California Quadrangle (2018).

15.2 Personal Communications

- Public Records Clerks – City of Moreno Valley, County of Riverside and State of California

15.3 Agencies Consulted

- California Department of Conservation, Geologic Energy Management Division (CalGEM)
- California Department of Toxic Substances Control
- California State Water Resources Control Board
- City of Moreno Valley
- County of Riverside
- United States EPA

FIGURES

FIGURE 1
VICINITY MAP

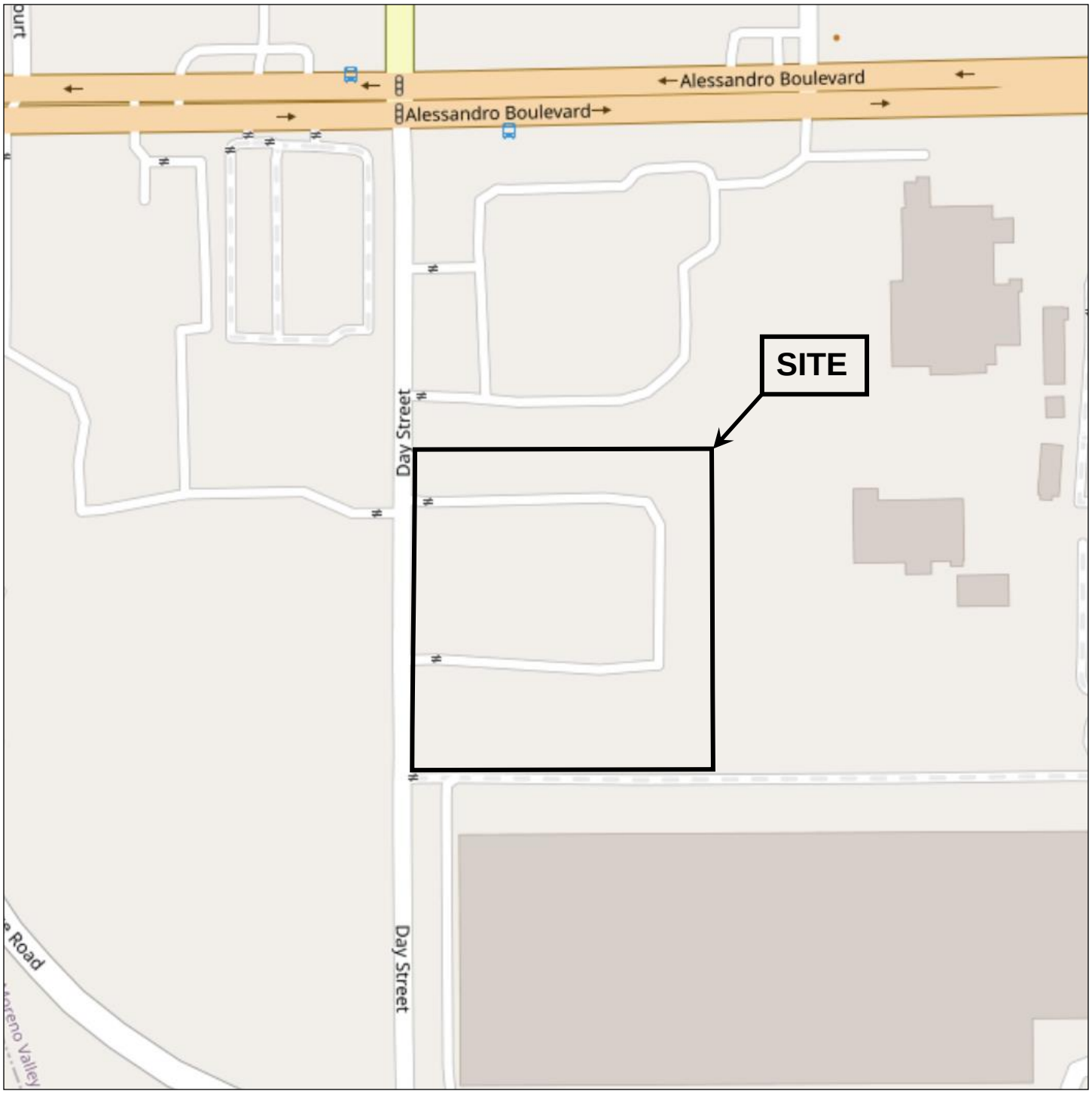


Figure 1 - Vicinity Map

14050 Day Street
Moreno Valley, California

N

Prepared by:

Weis Environmental
1938 Kellogg Avenue, Suite 116
Carlsbad, CA 92008

Weis ENVIRONMENTAL

FIGURE 2
SITE PLAN

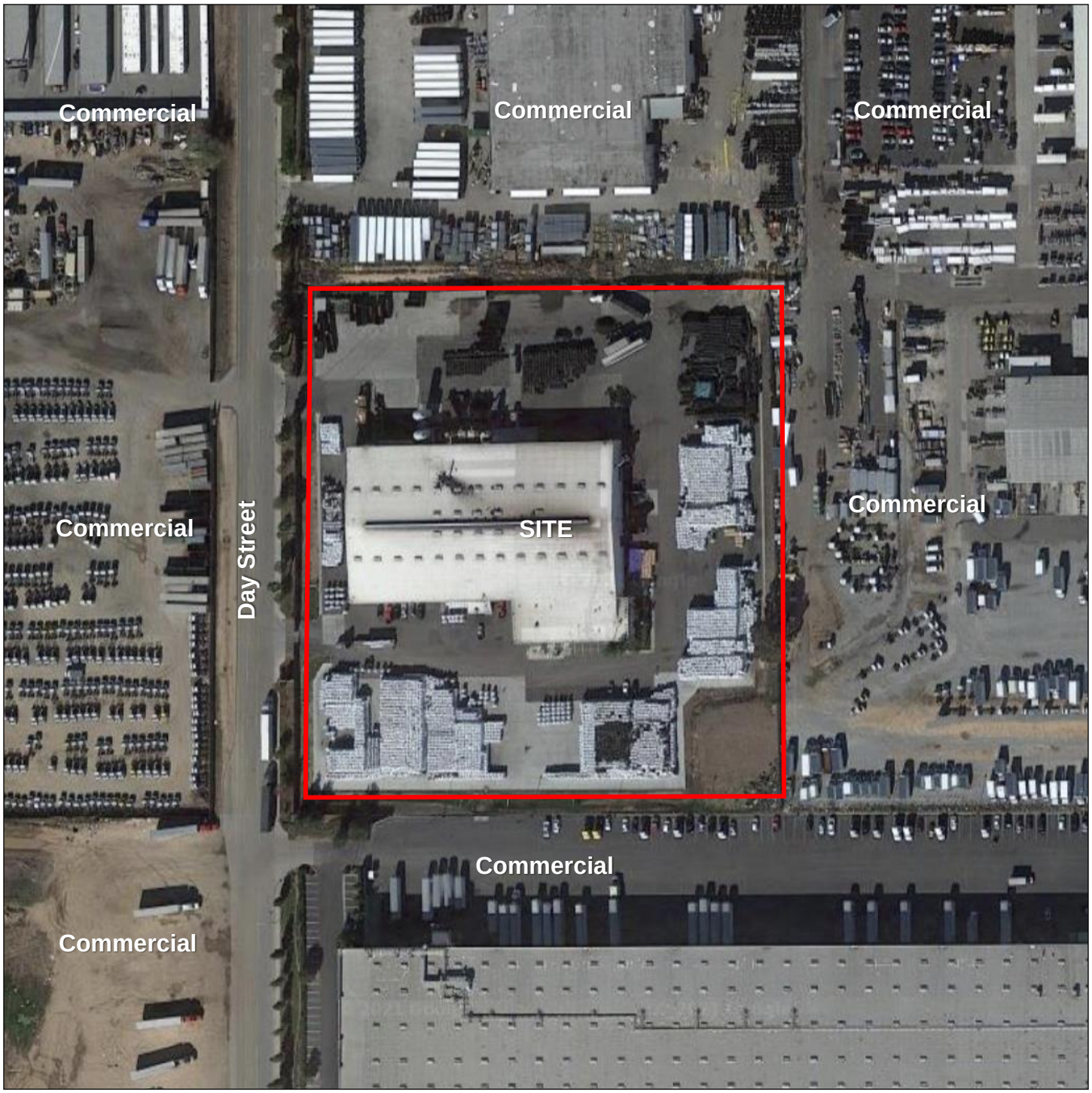


Figure 2 - Site Plan

14050 Day Street
Moreno Valley, California

N

Prepared by:

Weis Environmental
1938 Kellogg Avenue, Suite 116
Carlsbad, CA 92008

FIGURE 3
TOPOGRAPHIC MAP

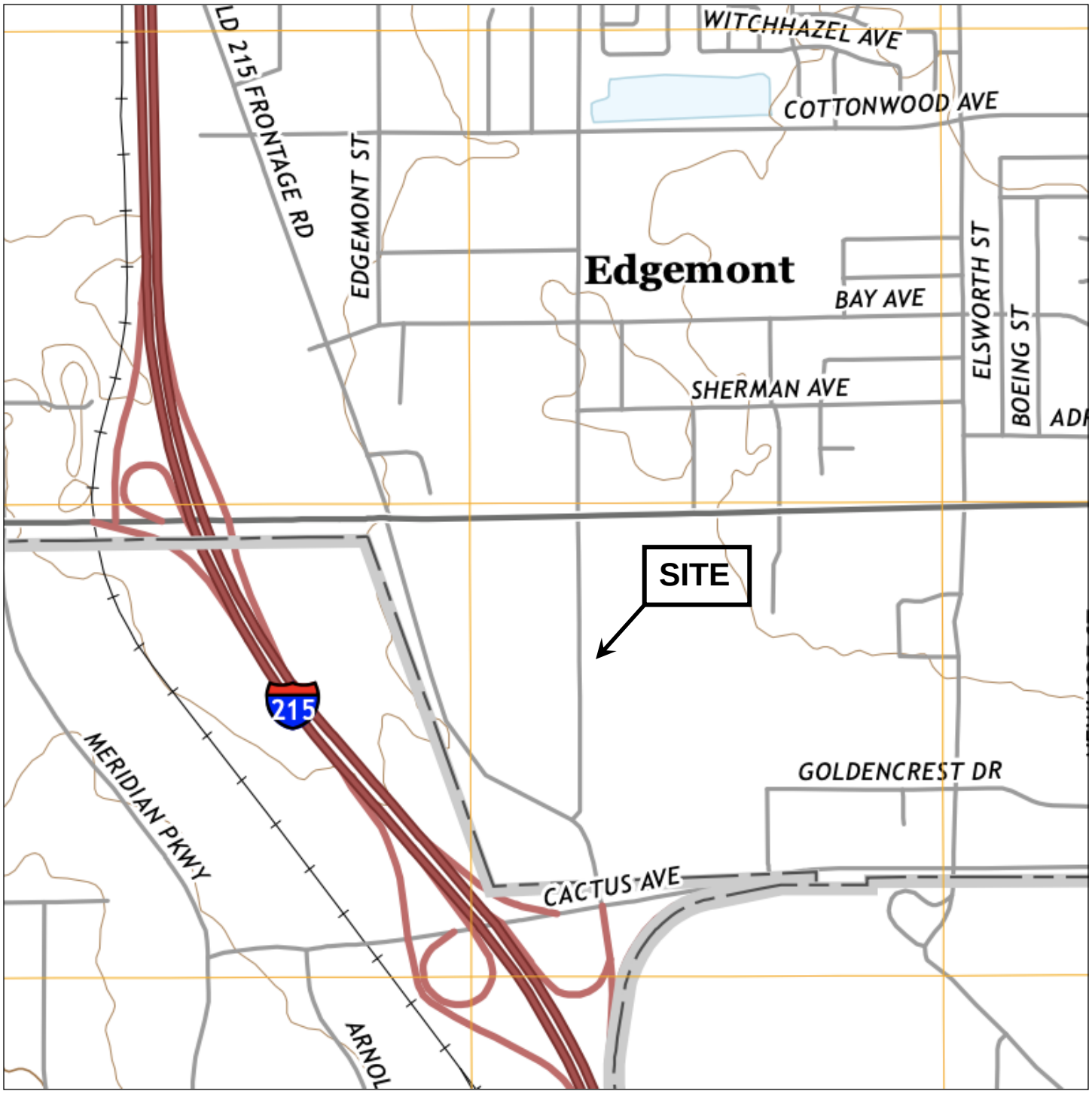


Figure 3 - Topographic Map

14050 Day Street
Moreno Valley, California

N

Prepared by:

Weis Environmental
1938 Kellogg Avenue, Suite 116
Carlsbad, CA 92008

Weis ENVIRONMENTAL

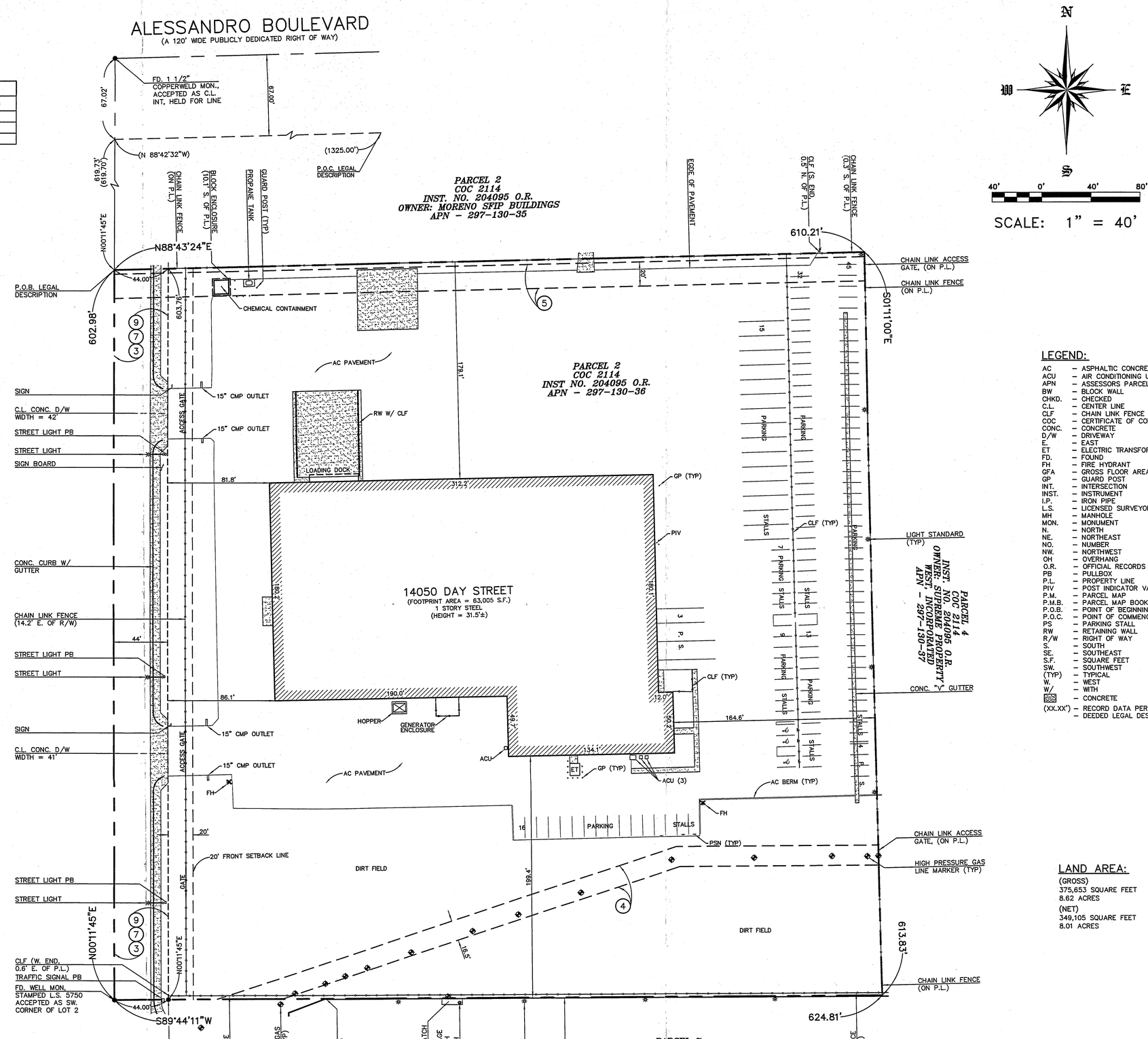
APPENDICES

APPENDIX A
USER PROVIDED INFORMATION

ALTA/ACSM LAND TITLE SURVEY

14050 DAY STREET
MORENO VALLEY, CALIFORNIA

PARKING SPACE TABLE	
TYPE OF SPACE	TOTAL EXISTING
STANDARD	144
HANDICAP	3
TOTAL	147



BASIS OF BEARINGS:

THE BEARING OF N 00°11'45" E ALONG THE CENTERLINE OF DAY STREET PER A RECORD OF SURVEY FILED IN BOOK 84, PAGE 1 OF RECORDS OF SURVEY IN THE OFFICE OF THE COUNTY RECORDER OF RIVERSIDE COUNTY STATE OF CALIFORNIA, WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

UTILITY NOTE:

BASED ON VISUAL OBSERVATION, THE SUBJECT PROPERTY IS SERVICED BY ALL THE NECESSARY UTILITIES REQUIRED TO MAINTAIN NORMAL OPERATION.

GENERAL NOTES:

-THIS ALTA/ACSM LAND TITLE SURVEY IS FOR TITLE INSURANCE PURPOSES ONLY, NOT TO BE USED FOR CONSTRUCTION, DESIGN OR ENGINEERING FOR FUTURE DEVELOPMENT OF SITE (PER TERMS AND CONDITIONS OF JRN CIVIL ENGINEERS CONTRACT WITH CLIENT), THIS SURVEY DOES NOT CONTAIN SUFFICIENT DETAIL FOR DESIGN PURPOSES.-
-THERE WERE NO MONUMENTS FOUND OR SET AT THE PROPERTY LINE CORNERS UNLESS OTHERWISE NOTED.
-THE INFORMATION COURSES AND DISTANCES SHOWN ON THIS SURVEY PRINT ARE TRUE AND CORRECT AND ACCURATELY REPRESENT THE BOUNDARIES AND AREA OF THE PREMISES.
-THERE IS NO VISIBLE EVIDENCE THAT THE SITE WAS USED FOR AS A SUMP, DUMP OR SANITARY LANDFILL.
-THERE IS NO VISIBLE EVIDENCE OF CEMETERIES ON SUBJECT PROPERTY.
-ALL MEASURED AND RECORDED DIMENSIONS ARE THE SAME UNLESS NOTED OTHERWISE.
-AT THE TIME OF SURVEY NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR ADDITIONS WERE OBSERVED.
-NO RECENT CHANGES IN STREET RIGHTS-OF-WAY WERE OBSERVED AT THE TIME OF SURVEY.
-THE BOUNDARY DATA AND TITLE MATTERS AS SHOWN HEREON HAVE BEEN DEVELOPED FROM THE REFERENCED TITLE REPORT, ONLY.
-THE RELATIVE POSITIONAL ACCURACY OF CALLED OUT IMPROVEMENTS SHOWN ON THE SURVEY IS WITHIN +/- 0.1'.
-COVENANTS, CONDITIONS, RESTRICTIONS, TERMS AGREEMENTS AND MATTERS LISTED HEREON CONTAIN NUMEROUS ITEMS THAT AFFECT THE SUBJECT PROPERTY, CONTENTS MUST BE REVIEWED TO DISCERN SPECIFICS.
-JRN CIVIL ENGINEERS ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF ANY THIRD PARTY INFORMATION REFERENCED OR REPRESENTED HEREON, ANY OF SAID INFORMATION SHOWN HEREON HAS BEEN PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
-AS OUTLINED IN SECTION 8770.6 OF THE BUSINESS AND PROFESSIONAL CODE "THE USE OF THE WORD "CERTIFY" OR "CERTIFICATION" BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER IN THE PRACTICE OF PROFESSIONAL ENGINEERING OR LAND SURVEYING OR THE PREPARATION OF MAPS, PLATS, REPORTS, DESCRIPTIONS, OR OTHER SURVEYING DOCUMENTS ONLY CONSTITUTES AN EXPRESSION OF PROFESSIONAL OPINION REGARDING THOSE FACTS OR FINDINGS WHICH ARE THE SUBJECT OF THE CERTIFICATION, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED. "

FLOOD NOTE:

ZONE – "X" PER FEDERAL EMERGENCY MANAGEMENT AGENCY MAP NO. 06507 4002 B RECORDED APRIL 17, 1993.

ZONE "X" DENOTES AREAS SUBJECT TO MINIMAL FLOODING

THE ABOVE STATEMENT IS FOR INFORMATION ONLY AND THIS SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THE CITED MAP(S). IN ADDITION, THE ABOVE STATEMENT DOES NOT REPRESENT THIS SURVEYOR'S OPINION OF THE PROBABILITY OF FLOODING.

STATEMENT OF ENCROACHMENTS:

NOTE: THE FOLLOWING IS A LISTING OF OBSERVED IMPROVEMENTS THAT CROSS PROPERTY LINES, STATEMENT OF OWNERSHIP OR POSSESSION IS NEITHER IMPLIED NOR THE INTENT OF THIS LISTING.

(A) – BLOCK WALL, NORTHEAST END, LIES 0.3' NORTHEAST OF THE PROPERTY LINE.

SCALE: 1" = 40'

LEGEND:

AC	– ASPHALTIC CONCRETE
ACU	– AIR CONDITIONING UNIT
APN	– ASSESSORS PARCEL NUMBER
BW	– BLOCK WALL
CHKD.	– CHECKED
C.L.	– CENTER LINE
CLF	– CHAIN LINK FENCE
COC	– CERTIFICATE OF COMPLIANCE
CONC.	– CONCRETE
D/W	– DRIVEWAY
E	– EAST
ET	– ELECTRIC TRANSFORMER
FD.	– FOUND
FH	– FIRE HYDRANT
GFA	– GROSS FLOOR AREA
GP	– GUARD POST
INT.	– INTERSECTION
INST.	– INSTRUMENT
I.P.	– IRON PIPE
L.S.	– LICENSED SURVEYOR
MH	– MANHOLE
MON.	– MONUMENT
N.	– NORTH
NE.	– NORTHEAST
NO.	– NUMBER
NW.	– NORTHWEST
OH	– OVERHANG
O.R.	– OFFICIAL RECORDS
PB	– PULLBOX
P.L.	– PROPERTY LINE
PIV	– POST INDICATOR VALVE
P.M.	– PARCEL MAP
P.M.B.	– PARCEL MAP BOOK
P.O.B.	– POINT OF BEGINNING
P.O.C.	– POINT OF COMMENCEMENT
PS	– PARKING STALL
RW	– RETAINING WALL
R/W	– RIGHT OF WAY
S.	– SOUTH
SE.	– SOUTHEAST
S.F.	– SQUARE FEET
SW.	– SOUTHWEST
(TYP)	– TYPICAL
W.	– WEST
W/	– WITH
	– CONCRETE
(XX.XX')	– RECORD DATA PER – DEEDED LEGAL DESCRIPTION

LAND AREA:

(GROSS)
375,653 SQUARE FEET
8.62 ACRES

(NET)
349,105 SQUARE FEET
8.01 ACRES

SITE RESTRICTIONS:

SETBACKS:

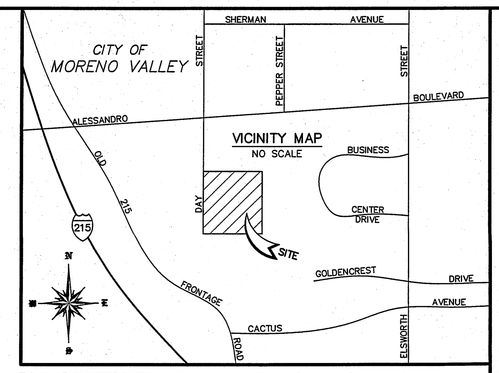
FRONT	–	20 FEET
SIDE/REAR	–	NONE
HEIGHT	–	NONE
ZONE	–	I (INDUSTRIAL)

FLOOR AREA RATIO – N/A
PARKING REQUIREMENT – MANUFACTURING USES: 1 STALL PER 500 S.F. OF GFA. RESEARCH AND DEVELOPMENT: 1 STALL PER 350 S.F. OF GFA. WAREHOUSE AND DISTRIBUTION: 1 STALL PER 1,000 S.F. OF GFA FOR THE FIRST 20,000 S.F.; 1 STALL PER EACH 2,000 S.F. OF GFA FOR THE SECOND 20,000 S.F.; 1 STALL PER EACH 4,000 S.F. OF GFA FOR AREAS IN EXCESS OF THE INITIAL 40,000 S.F.

ALL SITE RESTRICTIONS WERE OBTAINED PER THE CITY OF MORENO VALLEY (PLANNING DEPARTMENT). ANY QUESTIONS REGARDING ZONE DEFINITIONS OR INTERPRETATIONS SHOULD BE DIRECTED TO:

PHONE NUMBER – (951) 413-3206

*ZONING AND RESTRICTIONS SHOWN HEREON WERE OBTAINED BY A GENERAL REQUEST AT THE PUBLIC COUNTER OF THE ABOVE NAMED DEPARTMENT. NO REPRESENTATION IS MADE FOR THE ACCURACY OR COMPLETENESS OF SAID THIRD PARTY INFORMATION. THIS FIRM IS NOT AN EXPERT IN THE INTERPRETATION OF COMPLEX ZONING ORDINANCES, COMPLIANCE IS BEYOND THE SCOPE OF THIS SURVEY. ANY USER OF SAID INFORMATION MUST CONTACT THE LOCAL AGENCY DIRECTLY. THIS INFORMATION IS NOT PROVIDED FOR DESIGN PURPOSES.



LEGAL DESCRIPTION:

PARCEL "3" AS SHOWN ON PARCEL MAP WAIVER/ CERTIFICATE OF COMPLIANCE #2114 RECORDED JUNE 23, 1995 AS INSTRUMENT NO. 204095, OF OFFICIAL RECORDS OF RIVERSIDE COUNTY CALIFORNIA ALSO DESCRIBED IN THE DOCUMENT AS FOLLOWS:

THAT PORTION OF LOT 2 OF BLOCK 13 OF THE ALESSANDRO TRACT, AS SHOWN BY MAP ON FILE IN BOOK 6 PAGE(S) 13 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA, DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT ON THE EAST LINE OF SAID LOT 2 ALONG THE SOUTH LINE OF THE NORTHERLY RECTANGULAR 60.00 FEET CONVEYED TO THE COUNTY OF RIVERSIDE IN INSTRUMENT RECORDED JUNE 18, 1971 AS INSTRUMENT NO. 65695 OF OFFICIAL RECORDS, SAID POINT ALSO SHOWN AS THE NORTHEAST CORNER OF SAID LOT AND DESCRIBED WITH A "FOUND 1" I.P. AND PLASTIC PLUG RCE 13116.." ON FILE IN BOOK 84 PAGE 1 OF RECORDS OF SURVEY, RECORDS OF RIVERSIDE COUNTY, CALIFORNIA;
THENCE SOUTH 88 DEGREES 42' 32" WEST ALONG THE NORTH LINE OF SAID LOT AS SHOWN ON SAID RECORD OF SURVEY A DISTANCE OF 1325.00 FEET TO A POINT ON THE CENTERLINE OF DAY STREET AS SHOWN ON SAID RECORD OF SURVEY, SAID POINT BEING ON THE WEST LINE OF SAID LOT 2;
THENCE SOUTH 0 DEGREES 11' 45" WEST ALONG SAID CENTERLINE OF DAY STREET, A DISTANCE OF 619.70 FEET TO THE POINT OF BEGINNING OF THIS DESCRIPTION;
THENCE NORTH 88 DEGREES 43' 24" EAST A DISTANCE OF 610.21 FEET;
THENCE SOUTH 01 DEGREES 11' 00" EAST A DISTANCE OF 613.83 FEET TO A POINT ALONG THE SOUTH LINE OF SAID LOT 2;
THENCE SOUTH 89 DEGREES 44' 11" WEST ALONG SAID SOUTH LINE A DISTANCE OF 624.81 FEET TO THE SOUTHWEST CORNER OF SAID LOT 2, ALSO LYING ON THE CENTERLINE OF DAY STREET;
THENCE NORTH 00 DEGREES 11' 45" EAST ALONG THE SAID CENTERLINE OF DAY STREET A DISTANCE OF 602.98 FEET TO THE POINT OF BEGINNING AND THE END OF THIS DESCRIPTION.

APN: 297-130-036-3

ITEMS CORRESPONDING TO SCHEDULE "B":

BY: FIRST AMERICAN TITLE COMPANY
5 FIRST AMERICAN WAY
SANTA ANA, CA 92707
(714) 250-8405

ORDER NO: NCS-326963-SA1
TITLE OFFICER: GARY WARD
DATED: NOVEMBER 6, 2007

THE FOLLOWING ITEMS WERE FOUND IN SAID COMMITMENT AND ARE REFERENCED ON THIS MAP. COVENANTS, CONDITIONS, RESTRICTIONS, TERMS AGREEMENTS AND MATTERS LISTED HEREON CONTAIN NUMEROUS ITEMS THAT AFFECT THE SUBJECT PROPERTY, CONTENTS MUST BE REVIEWED TO DISCERN SPECIFICS.

(3) – RIGHTS OF THE PUBLIC IN AND TO THAT PORTION OF THE LAND LYING WITHIN PUBLIC ROADS. THIS ITEM AFFECTS THE SUBJECT PROPERTY AND IS SHOWN HEREON.

(4) – AN EASEMENT FOR PIPELINE AND INCIDENTAL PURPOSES RECORDED JUNE 5, 1948 AS BOOK 911, PAGE 345 OF OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY AND IS APPROXIMATELY PLOTTED HEREON.

(5) – AN EASEMENT FOR PIPELINE AND INCIDENTAL PURPOSES RECORDED JANUARY 10, 1958 AS BOOK 2205, PAGE 147 OF OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY AND HAS BEEN APPROXIMATELY PLOTTED HEREON.

(6) – COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS RECORDED JANUARY 7, 1971 AS INSTRUMENT NO. 1391 OF OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY, IS BLANKET IN NATURE AND IS NOT PLOTTED HEREON.

(7) – AN EASEMENT FOR ROAD, UTILITY AND INCIDENTAL PURPOSES RECORDED MARCH 15, 1971 AS INSTRUMENT NO. 25666 OF OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY AND IS PLOTTED HEREON.

(8) – AN EASEMENT FOR UNDERGROUND ELECTRICAL SUPPLY AND COMMUNICATION SYSTEMS AND INCIDENTAL PURPOSES RECORDED APRIL 17, 1972 AS INSTRUMENT NO. 72-49502 OF OFFICIAL RECORDS. THIS ITEM DOES NOT AFFECT THE SUBJECT PROPERTY AND IT IS NOT PLOTTED HEREON.

(9) – AN EASEMENT FOR PUBLIC HIGHWAY, UTILITY, SERVICE FACILITY AND INCIDENTAL PURPOSES RECORDED JUNE 23, 1995 AS INSTRUMENT NO. 204096 OF OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY AND IS PLOTTED HEREON.

(10) – THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "AGREEMENT CONTAINING COVENANTS AFFECTING RELA PROPERTY" RECORDED JUNE 23, 1995 AS INSTRUMENT NO. 204097 OF OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY, IS BLANKET IN NATURE AND IS NOT PLOTTED HEREON.

(11) – COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS RECORDED JUNE 23, 1995 AS INSTRUMENT NO. 204098 OF OFFICIAL RECORDS. THIS ITEM AFFECTS THE SUBJECT PROPERTY, IS BLANKET IN NATURE AND IS NOT PLOTTED HEREON.

ITEMS #'S SHOWN HEREON ARE STATED AS EXCEPTIONS ON ABOVE REFERENCED COMMITMENT. NO RESPONSIBILITY FOR THE COMPLETENESS, ACCURACY, OR CONTENT OF SAID REPORT IS ASSUMED BY THIS MAP.

SURVEYOR'S CERTIFICATION:

FIRST INDUSTRIAL ACQUISITIONS, INC., ITS SUCCESSORS AND ASSIGNS, FIRST INDUSTRIAL TRUST, INC., FIRST INDUSTRIAL, L.P., FIRST INDUSTRIAL INVESTMENT, INC. AND FIRST AMERICAN TITLE INSURANCE COMPANY.

I AM A REGISTERED SURVEYOR OF THE STATE OF CALIFORNIA AND I HEREBY CERTIFY THAT ON THE 18TH DAY OF DECEMBER, 2007,

(a) – AN ACCURATE, "AS-BUILT" ON THE GROUND SURVEY ENTITLED "ALTA/ACSM LAND TITLE SURVEY" (THE "SURVEY") OF THE PREMISES (THE "PROPERTY") KNOWN BY STREET ADDRESS 14050 DAY STREET, MORENO VALLEY, CALIFORNIA, WAS CONDUCTED UNDER MY DIRECTION ACCORDING TO LOCAL PROFESSIONAL PRACTICES;
(b) – THE SURVEY AND THE INFORMATION, COURSES AND DISTANCES SHOWN THEREON ARE CORRECT AND THE BOUNDARY LINES OF PROPERTY "CLOSE" BY ENGINEERING STANDARDS;
(c) – ALL MONUMENTS SHOWN ON THE SURVEY ACTUALLY EXIST, AND THE LOCATION, SIZE AND TYPE OF MATERIALS THEREOF ARE CORRECTLY SHOWN;
(d) – THE TITLE LINES AND LINES OF ACTUAL POSSESSION OF THE PROPERTY ARE THE SAME;
(e) – THE SIZE, LOCATION AND TYPE OF ALL BUILDINGS AND VISIBLE OR REASONABLY ASCERTAINABLE IMPROVEMENTS, IF ANY, ON THE PROPERTY ARE SHOWN ON THE SURVEY;
(f) – THE PROPERTY HAS DIRECT ACCESS TO DAY STREET WHICH IS DEDICATED, BY WAY OF EASEMENT, A PUBLIC WAY;
(g) – THERE ARE NO APPARENT EASEMENTS, RIGHTS-OF-WAY, OLD HIGHWAYS OR ABANDONED ROADS, LANES OR DRIVEWAYS AFFECTING THE PROPERTY APPEARING FROM A CAREFUL PHYSICAL INSPECTION OF THE SAME, OTHER THAN THOSE SHOWN AND DEPICTED ON THE SURVEY OR THOSE WHICH MAY BE DISCOVERED BY A COMPLETE TITLE EXAM OF THE SUBJECT PROPERTY;
(h) – THERE ARE NO VISIBLE BOUNDARY LINE CONFLICTS OR SHORTAGES IN AREA;
(i) – THE LOCATION AND DIMENSION OF ALL RECORDED EASEMENTS AND ANY OTHER EXCEPTIONS TO THE EXTENT THEY CAN BE LOCATED, ALL AS NOTED IN TITLE COMPANY COMMITMENT NO. NCS-326963-SA1, AND DATED NOVEMBER 6, 2007, ISSUED BY FIRST AMERICAN TITLE COMPANY AND ALL RECORDED SET-BACK LINES, HAVE BEEN CORRECTLY PLATTED OR NOTED ON THE SURVEY;
(j) – EXCEPT AS SHOWN ON THE SURVEY THERE ARE NO VISIBLE OR REASONABLY ASCERTAINABLE IMPROVEMENTS ON THE PROPERTY ENCROACHING UPON ANY EASEMENT, RIGHTS-OF-WAY OR ADJACENT LAND OR ENCROACHMENTS OF VISIBLE OR REASONABLY ASCERTAINABLE IMPROVEMENTS LOCATED ON ADJACENT LAND UPON THE PROPERTY;
(k) – THERE ARE NO CEMETERIES OR BURYING GROUND OBSERVED ON THE PROPERTY;
(l) – THE SURVEY SHOWS THE LOCATION OF ANY VISIBLE TELEPHONE, TELEGRAPH, ELECTRIC OR OTHER POWER LINES, WIRES AND POLES ON THE PROPERTY;
(m) – THE SURVEY SHOWS THE LOCATION OF ALL FACILITIES OR DITCHES FOR SURFACE DRAINAGE LOCATED ON THE PROPERTY;
(n) – THE PROPERTY DOES NOT LIE WITHIN ANY FLOOD HAZARD AREAS IN ACCORDANCE WITH ANY MAPS OR PUBLICATIONS OF THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT OR THE FEDERAL EMERGENCY MANAGEMENT AGENCY;
(o) – THE PROPERTY CONSTITUTES A SEPARATE TAX LOT AND NONE OF WHICH CONSTITUTES A PORTION OF ANY OTHER TAX LOT;
(p) – THE PROPERTY IS A SEPARATELY SUBDIVIDED TRACT;
(q) – ALL UTILITIES FOR THE OPERATION OF THE PROPERTY ARE AVAILABLE AT THE LOT LINES, ENTER SAID TRACT THROUGH ADJOINING PUBLIC STREETS AND DO NOT RUN THROUGH OR UNDER ANY BUILDINGS OR IMPROVEMENTS;
(r) – ALL SETBACK LINES, PARKING SPACES, AND FLOOR AREA RATIOS APPLICABLE TO THE PROPERTY UNDER APPLICABLE ZONING ORDINANCES ARE PROPERLY SHOWN ON THE SURVEY AND THERE ARE NO APPARENT VIOLATIONS OF SETBACKS, PARKING REQUIREMENTS AND FLOOR AREA RATIOS APPLICABLE TO THE PROPERTY UNDER APPLICABLE ZONING ORDINANCES WITH REFERENCE TO THE LOCATION OF ALL BUILDINGS, STRUCTURES AND IMPROVEMENTS SITUATED ON THE PROPERTY;
(s) – THE SURVEY SHOWS ALL DRIVEWAYS OR OTHER CURB CUTS ALONG ANY STREET OR ALLEY UPON WHICH THE LAND ABUTS;
(t) – THE SURVEY SHOWS THE LOCATION AND NAME OF ALL PUBLIC AND PRIVATE STREETS OR ALLEYS LOCATED THEREON OR ADJACENT THERETO, ALL OF WHICH ARE PUBLIC UNLESS OTHERWISE NOTED; AND
(u) – EXCEPT AS SHOWN ON THE SURVEY, THE PROPERTY DOES NOT, AS IT APPEARS ON THE LAND, BY MEANS OF VISUAL INSPECTION, SERVE ANY ADJOINING PROPERTY FOR DRAINAGE, UTILITIES OR INGRESS OR EGRESS.

I FURTHER CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2005, AND INCLUDES ITEMS 2, 3, 4, 6, 7, 8, 9, 10, 11(a), 13, 14, 16, 17 AND 18 OF TABLE A PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION AS A LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

PROFESSIONAL LAND SURVEYOR
JEFFERY L. MAIR
EXP. DATE 31/2008
No. 6379
STATE OF CALIFORNIA

REVISIONS
1/7/08: REVISED SURVEYOR'S CERTIFICATE

JRN CIVIL ENGINEERS
232 AVENIDA FABRICANTE, SUITE 107
SAN CLEMENTE, CALIFORNIA 92672
(949) 248-4685 FAX (949) 248-4687

ALTA/ACSM LAND TITLE SURVEY

ADDRESS: 14050 DAY STREET, MORENO VALLEY, CALIFORNIA

CLIENT: FIRST INDUSTRIAL PROPERTIES

SCALE: 1" = 40'
DATE: 12/18/07
DRAWN BY: BJK
CHKD. BY: JLM

SHEET 1 OF 1
FILE NO. 9750

APPENDIX B
REGULATORY DATABASE REPORT

DATABASE REPORT

Project Property:	*14050 Day Street* *14050 Day Street* *Moreno Valley CA 92553*
Project No:	
Report Type:	*Database Report*
Order No:	*21122800480*
Requested by:	*Weis Environmental, LLC*
Date Completed:	*December 29, 2021*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:		*14050 Day Street* *14050 Day Street Moreno Valley CA 92553*
Project No:		
Coordinates:		
	Latitude:	*33.91414097*
	Longitude:	*-117.27770799*
	UTM Northing:	*3,752,670.88*
	UTM Easting:	*474,328.46*
	UTM Zone:	*11S*
Elevation:		*1,553 FT*

Order Information:

Order No:	*21122800480*
Date Requested:	*December 28, 2021*
Requested by:	*Weis Environmental, LLC*
Report Type:	*Database Report*

Historicals/Products:

City Directory Search	*CD - 1 Street Search*
ERIS Xplorer	*ERIS Xplorer*
Excel Add-On	*Excel Add-On*

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records								
Federal								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	**2**	-	**2**
RCRA LQG	Y	0.25	0	**1**	0	-	-	**1**
RCRA SQG	Y	0.25	0	0	**3**	-	-	**3**
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	**4**	**4**	**7**	-	-	**15**
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
RESPONSE	Y	1	0	0	0	0	0	0
ENVIROSTOR	Y	1	0	0	**1**	**1**	0	**2**
DELISTED ENVS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
SWRCB SWF	Y	0.5	0	0	0	0	-	0
HWP	Y	1	0	0	0	0	0	0
SWAT	Y	0.5	0	0	0	0	-	0
C&D DEBRIS RECY	Y	0.5	**3**	0	0	**1**	-	**4**
RECYCLING	Y	0.5	0	0	**4**	**2**	-	**6**
PROCESSORS	Y	0.5	0	0	0	0	-	0
CONTAINER RECY	Y	0.5	0	0	0	0	-	0
LDS	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	0	0	**3**	**3**	-	**6**
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	**1**	0	-	-	**1**
UST CLOSURE	Y	0.5	0	0	0	0	-	0
HHSS	Y	0.25	0	0	**2**	-	-	**2**
UST SWEEPS	Y	0.25	0	0	**2**	-	-	**2**
AST	Y	0.25	0	0	0	-	-	0
AST SWRCB	Y	0.25	0	0	0	-	-	0
TANK OIL GAS	Y	0.25	0	0	0	-	-	0
DELISTED TNK	Y	0.25	0	0	0	-	-	0
CERS TANK	Y	0.25	0	**2**	0	-	-	**2**
DELISTED CTNK	Y	0.25	0	0	0	-	-	0
HIST TANK	Y	0.25	0	0	**2**	-	-	**2**
LUR	Y	0.5	0	0	0	0	-	0
CALSITES	Y	0.5	0	0	0	0	-	0
HLUR	Y	0.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DEED	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	**1**	0	-	**1**
CLEANUP SITES	Y	0.5	0	0	0	0	-	0
DELISTED COUNTY	Y	0.25	0	**2**	**3**	-	-	**5**
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0
County								
LOP RIVERSIDE	Y	0.5	0	0	**3**	**3**	-	**6**
UST RIVERSIDE	Y	0.25	0	**1**	0	-	-	**1**
Additional Environmental Records								
Federal								
FINDS/FRS	Y	PO	**1**	-	-	-	-	**1**
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	**1**	0	0	0	**1**	**2**
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	**3**	**3**
URANIUM	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DRYC GRANT	Y	0.25	0	0	0	-	-	0
PFAS	Y	0.5	0	0	0	0	-	0
PFAS GW	Y	0.5	0	0	0	0	-	0
HWSS CLEANUP	Y	0.5	0	0	0	0	-	0
DTSC HWF	Y	0.5	0	0	0	0	-	0
INSP COMP ENF	Y	1	0	0	0	0	0	0
SCH	Y	1	0	0	0	0	0	0
CHMIRS	Y	PO	0	-	-	-	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HAZNET	Y	PO	**2**	-	-	-	-	**2**
HIST MANIFEST	Y	PO	0	-	-	-	-	0
HW TRANSPORT	Y	0.125	0	0	-	-	-	0
WASTE TIRE	Y	PO	**1**	-	-	-	-	**1**
MEDICAL WASTE	Y	0.25	0	0	0	-	-	0
HIST CORTESE	Y	0.5	0	0	0	0	-	0
CDO/CAO	Y	0.5	0	0	0	0	-	0
CERS HAZ	Y	0.125	**1**	**1**	-	-	-	**2**
DELISTED HAZ	Y	0.5	0	0	0	**1**	-	**1**
GEOTRACKER	Y	0.125	0	0	-	-	-	0
MINE	Y	1	0	0	0	0	0	0
LIEN	Y	PO	0	-	-	-	-	0
WASTE DISCHG	Y	0.25	0	0	0	-	-	0
EMISSIONS	Y	0.25	0	**6**	**9**	-	-	**15**

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
CDL	Y	0.125	0	0	-	-	-	0
Tribal	***No Tribal additional environmental record sources available for this State.***							
County								
HWG RIVERSIDE	Y	0.125	**1**	**3**	-	-	-	**4**
HZH RIVERSIDE	Y	0.125	**1**	**3**	-	-	-	**4**
MED WST RIVERSIDE	Y	0.25	0	0	0	-	-	0
RMP RIVERSIDE	Y	PO	0	-	-	-	-	0
Total:			**15**	**24**	**40**	**13**	**4**	**96**

**** PO – Property Only***
**** 'Property and adjoining properties' database search radii are set at 0.25 miles.***

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	HZH RIVERSIDE	BAS Recycling	14050 Day St Moreno Valley CA 92553	NE	0.00 / 0.00	0	35
1	HWG RIVERSIDE	BAS Recycling	14050 Day St Moreno Valley CA 92553	NE	0.00 / 0.00	0	35
1	FINDS/FRS	BAS RECYCLING	14050 DAY ST MORENO VALLEY CA 92553 ***Registry ID:*** *110059741347*	NE	0.00 / 0.00	0	35
1	HAZNET	JOHN SANGA	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	0	35
1	HAZNET	BAS RECYCLING INC	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	0	36
1	FUDS	MARCH FIELD	MARCH AIR FORCE BASE CA ***FUDS Property No:*** *J09CA7168*	NE	0.00 / 0.00	0	38
1	CERS HAZ	BAS Recycling	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	0	39
1	RCRA NON GEN	BAS RECYCLING INC	14050 DAY ST MORENO VALLEY CA 92553 ***EPA Handler ID:*** *CAL000343884*	NE	0.00 / 0.00	0	45
1	C&D DEBRIS RECY	BAS RECYCLING, INC.	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	0	46
1	C&D DEBRIS RECY	INTERNATIONAL MULCH COMPANY	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	0	47
1	C&D DEBRIS RECY	ENVIRONMENTAL MOLDING CONCEPTS LLC	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	0	47
1	WASTE TIRE	BAS RECYCLING, INC.	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	0	47
1	RCRA NON GEN	LAKIN TIRE WEST LLC DBA BAS RECYCLING	14050 DAY ST MORENO VALLEY CA	NE	0.00 / 0.00	0	47

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			92553 **EPA Handler ID:** *CAL000464375*				
1	RCRA NON GEN	FIRST INDUSTRIAL LP	14050 DAY ST MORENO VALLEY CA 92553 **EPA Handler ID:** *CAC003141623*	NE	0.00 / 0.00	0	48
1	RCRA NON GEN	FIRST INDUSTRIAL LP	14050 DAY ST. MORENO VALLEY CA 92553 **EPA Handler ID:** *CAC003142215*	NE	0.00 / 0.00	0	49

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
2	EMISSIONS	REDMAN HOMES INC	22201 ALESSANDRO BL RIVERSIDE CA 92508	ENE	0.07 / 352.07	1	50
3	HZH RIVERSIDE	United Natural Foods, Inc-Moreno Valley	22150 Goldencrest Dr Moreno Valley CA 92553	SE	0.08 / 441.99	1	51
3	HWG RIVERSIDE	United Natural Foods, Inc-Moreno Valley	22150 Goldencrest Dr Moreno Valley CA 92553	SE	0.08 / 441.99	1	51
3	CERS TANK	United Natural Foods, Inc-Moreno Valley	22150 GOLDENCREST DR MORENO VALLEY CA 92553 ***Site ID:*** 404953	SE	0.08 / 441.99	1	51
3	RCRA NON GEN	UNITED NATURAL FOODS INC	22150 GOLDENCREST DR MORENO VALLEY CA 92553-9117 ***EPA Handler ID:*** CAL000342605	SE	0.08 / 441.99	1	60
4	DELISTED COUNTY	Tractorland Equipment Company	21921 Alessandro Blvd Moreno Valley CA 92553	WNW	0.09 / 497.39	-9	61
4	RCRA NON GEN	C5 EQUIPMENT RENTALS LLC	21921 ALESSANDRO BLVD MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAL000413793	WNW	0.09 / 497.39	-9	61
5	HZH RIVERSIDE	Supreme Truck Bodies Of California	22135 Alessandro Blvd Moreno Valley CA 92553	NE	0.10 / 519.67	8	62
5	HWG RIVERSIDE	Supreme Truck Bodies Of California	22135 Alessandro Blvd Moreno Valley CA 92553	NE	0.10 / 519.67	8	62
5	EMISSIONS	ROHR IND INC	22135 ALLESSANDRO BL EDGEMONT CA 92102	NE	0.10 / 519.67	8	63
5	EMISSIONS	ROHR IND INC	22135 ALLESSANDRO BL MORENO VALLEY CA 92388	NE	0.10 / 519.67	8	63
5	EMISSIONS	ROHR IND INC	22135 ALESSANDRO BL MORENO VALLEY CA 92388	NE	0.10 / 519.67	8	64

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
5	EMISSIONS	SUPREME TRUCK BODIES OF CALIFORNIA	22135 ALESSANDRO BLVD MORENO VALLEY CA 92553	NE	0.10 / 519.67	8	65
5	EMISSIONS	SUPREME TRUCK BODIES OF CALIF30NIA	22135 ALESSANDRO BLVD M30ENO VALLEY CA 92553	NE	0.10 / 519.67	8	68
5	CERS HAZ	Supreme Truck Bodies Of California	22135 ALESSANDRO BLVD MORENO VALLEY CA 92553	NE	0.10 / 519.67	8	68
5	RCRA LQG	SUPREME TRUCK BODIES OF CALIFORNIA	22135 ALESSANDRO BLVD MORENO VALLEY CA 92553-0000 ***EPA Handler ID:*** CAD982030355	NE	0.10 / 519.67	8	77
6	HZH RIVERSIDE	Robertson's Ready Mix	14250 Old 215 Frontage Moreno Valley CA 92552	W	0.12 / 659.74	-6	81
6	DELISTED COUNTY	Robertson's Ready Mix	14250 Old 215 Frontage Moreno Valley CA 92552	W	0.12 / 659.74	-6	82
6	UST	Robertson's Ready Mix	14250 Old 215 Frontage Rd Moreno Valley CA 92552 ***Facility ID:*** FA0040008	W	0.12 / 659.74	-6	82
6	CERS TANK	Robertson's Ready Mix	14250 OLD 215 FRONTAGE RD MORENO VALLEY CA 92552 ***Site ID:*** 148611	W	0.12 / 659.74	-6	82
6	HWG RIVERSIDE	Robertson's Ready Mix	14250 Old 215 Frontage Moreno Valley CA 92552	W	0.12 / 659.74	-6	94
6	UST RIVERSIDE	Robertson's Ready Mix	14250 Old 215 Frontage Moreno Valley CA 92552 ***No of Tanks:*** 1	W	0.12 / 659.74	-6	94
6	RCRA NON GEN	ROBERTSONS READY MIX	14250 OLD 215 FRONTAGE RD MORENO VALLEY CA 92552 ***EPA Handler ID:*** CAL000387800	W	0.12 / 659.74	-6	94
6	RCRA NON GEN	PR III CHI FREEWAY BC LLC	14250 OLD 215 FRONTAGE RD 2677 ALESSANDRO BLVD MORENO VALLEY CA 92553-7900 ***EPA Handler ID:*** CAC003030278	W	0.12 / 659.74	-6	95
7	VCP	ALESSANDRO PROPERTIES	14044 OLD 215 FRONTAGE ROAD AND 21839 & 21921 ALESSANDRO BOULEVARD MORENO VALLEY CA 92553	NW	0.15 / 810.67	-6	96

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
			***Estor/EPA ID	Cleanup Status:*** 60002840 | ACTIVE AS OF 6/13/2019			
7	ENVIROSTOR	ALESSANDRO PROPERTIES	14044 OLD 215 FRONTAGE ROAD AND 21839 & 21921 ALESSANDRO BOULEVARD MORENO VALLEY CA 92553 ***Estor/EPA ID | Cleanup Status:*** 60002840 | ACTIVE AS OF 6/13/2019	NW	0.15 / 810.67	-6	100
8	EMISSIONS	PORVENE DOORS INC	14241 GRANT ST MORENO VALLEY CA 92553	E	0.16 / 833.15	8	103
8	RCRA NON GEN	PORVENE DOORS INC	14241 GRANT ST MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAL000271844	E	0.16 / 833.15	8	103
9	LOP RIVERSIDE	Gas 4 Less	22144 Alessandro Blvd Moreno Valley CA ***Site ID | Status Desc:*** 9915615 |	NNE	0.16 / 844.33	7	104
9	LOP RIVERSIDE	Flite Chief (Mobil)	22144 Alessandro Blvd Moreno Valley CA ***Site ID | Status Desc:*** 91630 | CLOSED/ACTION COMPLETED	NNE	0.16 / 844.33	7	105
9	LUST	FLITE CHIEF, INC. (MOBIL)	22144 ALESSANDRO BLVD MORENO VALLEY CA 92553 ***Global ID | Status | Status Date:*** T0606500222 | COMPLETED - CASE CLOSED | 2/16/1993	NNE	0.16 / 844.33	7	105
9	LUST	GAS 4 LESS	22144 ALESSANDRO BLVD MORENO VALLEY CA 92553 ***Global ID | Status | Status Date:*** T0606599142 | COMPLETED - CASE CLOSED | 2/27/2019	NNE	0.16 / 844.33	7	108
9	HHSS	FLITE CHIEF	22144 ALESSANDRO PEPPER EDGEMONT CA 92508	NNE	0.16 / 844.33	7	139
9	HIST TANK	FLITE CHIEF	22144 ALESSANDRO EDGEMONT CA	NNE	0.16 / 844.33	7	139
9	UST SWEEPS	FLITE CHIEF	22144 ALESSANDRO BLVD MORENO VALLEY CA ***C C | Status:*** A33-000-56844 | ACTIVE ***Tank ID:*** 000003, 000002, 000001	NNE	0.16 / 844.33	7	139
10	RCRA SQG	INDUSTRIAL PARTS INC	21921 ALLESANDRO MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAD981970502	NW	0.17 / 892.36	-6	140
11	RCRA NON GEN	AILENE & EDMUND KOTERWAS	13965 PEPPER STREET MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAC003123787	NNE	0.17 / 921.49	7	141
12	DELISTED COUNTY	Collision Center of Moreno Valley	14441 Commerce Center Dr Moreno Valley CA 92553	SE	0.18 / 930.52	1	142

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
12	EMISSIONS	COLLISION CENTER OF M30ENO VALLEY	14441 COMMERCE CENTER DR BLDG 'B' M30ENO VALLEY CA 92553	SE	0.18 / 930.52	1	142
12	EMISSIONS	FIX AUTO MORENO VALLEY	14441 COMMERCE CENTER DR BLDG B MORENO VALLEY CA 92553	SE	0.18 / 930.52	1	143
12	RCRA NON GEN	FIX AUTO MORENO VALLEY	14441 COMMERCE CENTER DR STE B MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAL000318605	SE	0.18 / 930.52	1	143
12	EMISSIONS	FIX AUTO MORENO VALLEY	14441 COMMERCE CENTER DR BLDG 'B' MORENO VALLEY CA 92553	SE	0.18 / 930.52	1	144
13	RCRA SQG	BALDWINS AUTOMOTIVE	21891 ALESSANDRO BLVD MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAR000078865	NW	0.18 / 944.09	-7	145
13	DELISTED COUNTY	Baldwin Automotive	21891 Alessandro Blvd Moreno Valley CA 92553	NW	0.18 / 944.09	-7	146
13	RCRA NON GEN	MY TRAN E SHOP LLC	21891 ALESSANDRO BLVD MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAL000412568	NW	0.18 / 944.09	-7	146
13	UST SWEEPS	BALDWIN AUTO INC	21891 ALESSANDRO BLVD MORENO VALLEY CA ***C C | Status:*** A33-000-1837 | ACTIVE ***Tank ID:*** 000001	NW	0.18 / 944.09	-7	147
14	DELISTED COUNTY	Barons Auto Service	21866 Alessandro Blvd Moreno Valley CA 92553	NW	0.19 / 1,028.76	-6	147
14	RCRA NON GEN	MOJICA SMOG & TIRES	21866 ALESANDRO BLVD STE.B MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAC003050054	NW	0.19 / 1,028.76	-6	147
15	LOP RIVERSIDE	Charlebois Liquors	21840 Alessandro Blvd Moreno Valley CA ***Site ID | Status Desc:*** 89200 |	NW	0.22 / 1,135.75	-7	148
15	LUST	CHARLEBOIS LIQUORS	21840 ALESSANDRO BLVD MORENO VALLEY CA 92388 ***Global ID | Status | Status Date:*** T0606500010 | COMPLETED - CASE CLOSED | 2/28/2013	NW	0.22 / 1,135.75	-7	149
15	HHSS	CHARLEBOIS LIOUORS	21840 ALESSANDRO BLVD MORENO VALLEY CA 92508	NW	0.22 / 1,135.75	-7	158

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
15	HIST TANK	CHARLEBOIS LIQUORS	21840 ALESSANDRO BLVD. MORENO VALLEY CA	NW	0.22 / 1,135.75	-7	158
16	RCRA NON GEN	ALL MAGIC PAINT & BODY	14461 COMMERCE CENTER DR. MORENO VALLEY CA 92860 ***EPA Handler ID:*** CAL000437371	SE	0.22 / 1,139.95	1	158
16	EMISSIONS	ALL MAGIC PAINT & BODY	14461 COMMERCE CENTER DR MORENO VALLEY CA 92553	SE	0.22 / 1,139.95	1	159
17	RCRA SQG	ANDLAND PROPERTIES	14044 OLD 215 FRONTAGE RD MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAP000319004	WNW	0.23 / 1,203.03	-10	159
18	RECYCLING	MORENO VALLEY RECYCLING 4	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	WNW	0.23 / 1,208.64	-9	161
18	RECYCLING	MORENO VALLEY RECYCLING #4	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	WNW	0.23 / 1,208.64	-9	161
18	RECYCLING	MORENO VALLEY RECYCLING CENTER #4	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	WNW	0.23 / 1,208.64	-9	161
18	RECYCLING	MORENO VALLEY RECYCLING #4	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	WNW	0.23 / 1,208.64	-9	161
19	EMISSIONS	ARCO AM/PM TESORO REFINING & MARKETING C	22330 CACTUS AVE MORENO VALLEY CA 92553	SSE	0.25 / 1,295.96	-1	162
20	EMISSIONS	BEN CLYMER'S 'THE BODY SHOP'	22335 ALESSANDRO MORENO VALLEY CA 92553	ENE	0.25 / 1,319.48	10	162
20	EMISSIONS	BEN CLYMER'S THE BODY SHOP	22335 ALESSANDRO MORENO VALLEY CA 92553	ENE	0.25 / 1,319.48	10	164
20	EMISSIONS	BEN CLYMER'STHE BODY SHOP	22335 ALESSANDRO MORENO VALLEY CA 92553	ENE	0.25 / 1,319.48	10	164

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
20	RCRA NON GEN	BEN CLYMERS THE BODYSHOP MV INC	22335 ALESSANDRO BLVD MORENO VALLEY CA 92553-8300 ***EPA Handler ID:*** CAL000296565	ENE	0.25 / 1,319.48	10	165
21	RECYCLING	MENLO RECYCLING CENTER	22405 GOLDEN CREST DR BLDG A MORENO VALLEY CA 92553	ESE	0.31 / 1,615.31	3	166
21	RECYCLING	MENLO RECYCLE CENTER	22405 GOLDENCREST DR BLDG A MORENO VALLEY CA 92553	ESE	0.31 / 1,615.31	3	166
22	LOP RIVERSIDE	TEXACO (SHELL) CACTUS AVE	22470 CACTUS AVE MORENO VALLEY CA ***Site ID	Status Desc:*** 200219022 | CLOSED/ACTION COMPLETED	ESE	0.41 / 2,141.40	0	167
22	LUST	TEXACO (SHELL) CACTUS AVE	22470 CACTUS AVE MORENO VALLEY CA 92553 ***Global ID	Status	Status Date:*** T0606566676 | COMPLETED - CASE CLOSED | 10/15/2013	ESE	0.41 / 2,141.40	0	167
23	ENVIROSTOR	ALPER CLEANERS	14420 ELSWORTH ST., SUITE 114 MORENO VALLEY CA 92553 ***Estor/EPA ID	Cleanup Status:*** 33720002 | REFER: 1248 LOCAL AGENCY AS OF 6/7/2004	ESE	0.41 / 2,166.60	0	194
24	C&D DEBRIS RECY	SPOILED	2634 E ALESSANDRO BLVD RIVERSIDE CA 92508	WNW	0.41 / 2,182.11	-20	194
25	DELISTED HAZ	Moreno Valley Regional Dialysis Ctr	22620 GOLDENCREST DR STE 101 MORENO VALLEY CA 92553	ESE	0.45 / 2,366.39	2	194
26	LOP RIVERSIDE	ARCO #6345	2624 E ALESSANDRO BLVD RIVERSIDE CA ***Site ID	Status Desc:*** 970696 | CLOSED/ACTION COMPLETED	WNW	0.45 / 2,389.60	-27	195
26	LUST	ARCO #6345	2624 E ALESSANDRO BLVD RIVERSIDE CA 92508 ***Global ID	Status	Status Date:*** T0606500497 | OPEN - ELIGIBLE FOR CLOSURE | 3/23/2021	WNW	0.45 / 2,389.60	-27	195
26	RCRA TSD	TESORO 42685	2624 E ALESSANDRO BLVD RIVERSIDE CA 92508 ***EPA Handler ID:*** CAL000445518	WNW	0.45 / 2,389.60	-27	234
27	RCRA TSD	STAY MOVING AUTOMOTIVE	14300 ELWORTH ST STE 113 MORENO VALLEY CA 92553 ***EPA Handler ID:*** CAL000446311	E	0.46 / 2,422.27	7	235
28	LOP RIVERSIDE	Chevron #1480	22520 Cactus Ave Moreno Valley CA ***Site ID	Status Desc:*** 971155 | CLOSED/ACTION COMPLETED	ESE	0.46 / 2,433.21	-1	236

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
28	LUST	CHEVRON #9-1480	22520 CACTUS AVE MORENO VALLEY CA 92553	ESE	0.46 / 2,433.21	-1	236
			***Global ID	Status	Status Date:*** T0606500508 | COMPLETED - CASE CLOSED | 8/21/1998		
29	MRDS	UNNAMED PIT	RIVERSIDE COUNTY RIVERSIDE CA 92508	W	0.88 / 4,621.74	1	239
			Dep ID: 10212912				
30	MRDS	UNNAMED PIT	RIVERSIDE COUNTY RIVERSIDE CA 92506	WNW	0.90 / 4,776.69	-4	240
			Dep ID: 10139867				
30	MRDS	PIT	RIVERSIDE COUNTY RIVERSIDE CA 92506	WNW	0.90 / 4,776.69	-4	240
			Dep ID: 10110905				
31	FUDS	CAMP HAAN	 RIVERSIDE CA	SW	0.99 / 5,249.06	62	241
			FUDS Property No: J09CA0279				

Executive Summary: Summary by Data Source

Standard

Federal

RCRA TSD - RCRA non-CORRACTS TSD Facilities

A search of the RCRA TSD database, dated Nov 17, 2021 has found that there are 2 RCRA TSD site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
STAY MOVING AUTOMOTIVE	14300 ELWORTH ST STE 113 MORENO VALLEY CA 92553 ***EPA Handler ID**: CAL000446311*	E	0.46 / 2,422.27	27

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
TESORO 42685	2624 E ALESSANDRO BLVD RIVERSIDE CA 92508 ***EPA Handler ID**: CAL000445518*	WNW	0.45 / 2,389.60	26

RCRA LQG - RCRA Generator List

A search of the RCRA LQG database, dated Nov 17, 2021 has found that there are 1 RCRA LQG site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
SUPREME TRUCK BODIES OF CALIFORNIA	22135 ALESSANDRO BLVD MORENO VALLEY CA 92553-0000 ***EPA Handler ID**: CAD982030355*	NE	0.10 / 519.67	5

RCRA SQG - RCRA Small Quantity Generators List

A search of the RCRA SQG database, dated Nov 17, 2021 has found that there are 3 RCRA SQG site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
INDUSTRIAL PARTS INC	21921 ALLESANDRO MORENO VALLEY CA 92553 ***EPA Handler ID**: CAD981970502*	NW	0.17 / 892.36	10
BALDWINS AUTOMOTIVE	21891 ALESSANDRO BLVD MORENO VALLEY CA 92553 ***EPA Handler ID**: CAR000078865*	NW	0.18 / 944.09	13
ANDLAND PROPERTIES	14044 OLD 215 FRONTAGE RD MORENO VALLEY CA 92553 ***EPA Handler ID**: CAP000319004*	WNW	0.23 / 1,203.03	17

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Nov 17, 2021 has found that there are 15 RCRA NON GEN site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
FIRST INDUSTRIAL LP	14050 DAY ST. MORENO VALLEY CA 92553 ***EPA Handler ID**: CAC003142215*	NE	0.00 / 0.00	1
FIRST INDUSTRIAL LP	14050 DAY ST MORENO VALLEY CA 92553 ***EPA Handler ID**: CAC003141623*	NE	0.00 / 0.00	1
LAKIN TIRE WEST LLC DBA BAS RECYCLING	14050 DAY ST MORENO VALLEY CA 92553 ***EPA Handler ID**: CAL000464375*	NE	0.00 / 0.00	1
BAS RECYCLING INC	14050 DAY ST MORENO VALLEY CA 92553 ***EPA Handler ID**: CAL000343884*	NE	0.00 / 0.00	1
UNITED NATURAL FOODS INC	22150 GOLDENCREST DR MORENO VALLEY CA 92553-9117 ***EPA Handler ID**: CAL000342605*	SE	0.08 / 441.99	3
PORVENE DOORS INC	14241 GRANT ST MORENO VALLEY CA 92553 ***EPA Handler ID**: CAL000271844*	E	0.16 / 833.15	8
AILENE & EDMUND KOTERWAS	13965 PEPPER STREET MORENO VALLEY CA 92553 ***EPA Handler ID**: CAC003123787*	NNE	0.17 / 921.49	11
FIX AUTO MORENO VALLEY	14441 COMMERCE CENTER DR STE B MORENO VALLEY CA 92553 ***EPA Handler ID**: CAL000318605*	SE	0.18 / 930.52	12
ALL MAGIC PAINT & BODY	14461 COMMERCE CENTER DR. MORENO VALLEY CA 92860 ***EPA Handler ID**: CAL000437371*	SE	0.22 / 1,139.95	16
BEN CLYMERS THE BODYSHOP MV INC	22335 ALESSANDRO BLVD MORENO VALLEY CA 92553-8300 ***EPA Handler ID**: CAL000296565*	ENE	0.25 / 1,319.48	20

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
C5 EQUIPMENT RENTALS LLC	21921 ALESSANDRO BLVD MORENO VALLEY CA 92553 ***EPA Handler ID**: CAL000413793*	WNW	0.09 / 497.39	4

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
PR III CHI FREEWAY BC LLC	14250 OLD 215 FRONTAGE RD 2677 ALESSANDRO BLVD MORENO VALLEY CA 92553-7900 ***EPA Handler ID**: CAC003030278*	W	0.12 / 659.74	6
ROBERTSONS READY MIX	14250 OLD 215 FRONTAGE RD MORENO VALLEY CA 92552 ***EPA Handler ID**: CAL000387800*	W	0.12 / 659.74	6
MY TRAN E SHOP LLC	21891 ALESSANDRO BLVD MORENO VALLEY CA 92553 ***EPA Handler ID**: CAL000412568*	NW	0.18 / 944.09	13
MOJICA SMOG & TIRES	21866 ALESANDRO BLVD STE.B MORENO VALLEY CA 92553 ***EPA Handler ID**: CAC003050054*	NW	0.19 / 1,028.76	14

State

ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Sep 15, 2021 has found that there are 2 ENVIROSTOR site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
ALPER CLEANERS	14420 ELSWORTH ST., SUITE 114 MORENO VALLEY CA 92553 ***Estor/EPA ID	Cleanup Status**: 33720002 | REFER: 1248 LOCAL AGENCY AS OF 6/7/2004*	ESE	0.41 / 2,166.60	23

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ALESSANDRO PROPERTIES	14044 OLD 215 FRONTAGE ROAD AND 21839 & 21921 ALESSANDRO BOULEVARD MORENO VALLEY CA 92553 ***Estor/EPA ID	Cleanup Status**: 60002840 | ACTIVE AS OF 6/13/2019*	NW	0.15 / 810.67	7

C&D DEBRIS RECY - Construction and Demolition Debris Recyclers

A search of the C&D DEBRIS RECY database, dated Jun 20, 2018 has found that there are 4 C&D DEBRIS RECY site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
INTERNATIONAL MULCH COMPANY	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	1
ENVIRONMENTAL MOLDING CONCEPTS LLC	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	1
BAS RECYCLING, INC.	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	1

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
SPOILED	2634 E ALESSANDRO BLVD RIVERSIDE CA 92508	WNW	0.41 / 2,182.11	24

RECYCLING - Recycling Centers

A search of the RECYCLING database, dated Nov 2, 2020 has found that there are 6 RECYCLING site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
MENLO RECYCLE CENTER	22405 GOLDENCREST DR BLDG A MORENO VALLEY CA 92553	ESE	0.31 / 1,615.31	21
MENLO RECYCLING CENTER	22405 GOLDEN CREST DR BLDG A MORENO VALLEY CA 92553	ESE	0.31 / 1,615.31	21

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
MORENO VALLEY RECYCLING CENTER #4	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	WNW	0.23 / 1,208.64	18
MORENO VALLEY RECYCLING #4	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	WNW	0.23 / 1,208.64	18
MORENO VALLEY RECYCLING #4	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	WNW	0.23 / 1,208.64	18
MORENO VALLEY RECYCLING 4	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	WNW	0.23 / 1,208.64	18

LUST - Leaking Underground Fuel Tank Reports

A search of the LUST database, dated Jun 22, 2021 has found that there are 6 LUST site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
GAS 4 LESS	22144 ALESSANDRO BLVD MORENO VALLEY CA 92553	NNE	0.16 / 844.33	9
	Global ID* | *Status* | *Status Date: *T0606599142 | COMPLETED - CASE CLOSED | 2/27/2019*			

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
FLITE CHIEF, INC. (MOBIL)	22144 ALESSANDRO BLVD MORENO VALLEY CA 92553	NNE	0.16 / 844.33	9
	Global ID* | *Status* | *Status Date: *T0606500222* | *COMPLETED - CASE CLOSED* | *2/16/1993*			
TEXACO (SHELL) CACTUS AVE	22470 CACTUS AVE MORENO VALLEY CA 92553	ESE	0.41 / 2,141.40	22
	Global ID* | *Status* | *Status Date: *T0606566676* | *COMPLETED - CASE CLOSED* | *10/15/2013*			

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CHARLEBOIS LIQUORS	21840 ALESSANDRO BLVD MORENO VALLEY CA 92388	NW	0.22 / 1,135.75	15
	Global ID* | *Status* | *Status Date: *T0606500010* | *COMPLETED - CASE CLOSED* | *2/28/2013*			
ARCO #6345	2624 E ALESSANDRO BLVD RIVERSIDE CA 92508	WNW	0.45 / 2,389.60	26
	Global ID* | *Status* | *Status Date: *T0606500497* | *OPEN - ELIGIBLE FOR CLOSURE* | *3/23/2021*			
CHEVRON #9-1480	22520 CACTUS AVE MORENO VALLEY CA 92553	ESE	0.46 / 2,433.21	28
	Global ID* | *Status* | *Status Date: *T0606500508* | *COMPLETED - CASE CLOSED* | *8/21/1998*			

UST - Permitted Underground Storage Tank (UST) in GeoTracker

A search of the UST database, dated Oct 17, 2021 has found that there are 1 UST site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Robertson's Ready Mix	14250 Old 215 Frontage Rd Moreno Valley CA 92552	W	0.12 / 659.74	6
	Facility ID: *FA0040008*			

HHSS - Historical Hazardous Substance Storage Information Database

A search of the HHSS database, dated Aug 27, 2015 has found that there are 2 HHSS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
FLITE CHIEF	22144 ALESSANDRO PEPPER EDGEMONT CA 92508	NNE	0.16 / 844.33	9

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CHARLEBOIS LIOUORS	21840 ALESSANDRO BLVD MORENO VALLEY CA 92508	NW	0.22 / 1,135.75	15

UST SWEEPS - Statewide Environmental Evaluation and Planning System

A search of the UST SWEEPS database, dated Oct 1, 1994 has found that there are 2 UST SWEEPS site(s) within approximately 0.25

miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
FLITE CHIEF	22144 ALESSANDRO BLVD MORENO VALLEY CA ***C C	Status**: *A33-000-56844 | ACTIVE* ***Tank ID**: 000003, 000002, 000001*	NNE	0.16 / 844.33	9

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
BALDWIN AUTO INC	21891 ALESSANDRO BLVD MORENO VALLEY CA ***C C	Status**: *A33-000-1837 | ACTIVE* ***Tank ID**: 000001*	NW	0.18 / 944.09	13

CERS TANK - California Environmental Reporting System (CERS) Tanks

A search of the CERS TANK database, dated Sep 24, 2021 has found that there are 2 CERS TANK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
United Natural Foods, Inc-Moreno Valley	22150 GOLDENCREST DR MORENO VALLEY CA 92553 ***Site ID**: 404953*	SE	0.08 / 441.99	3

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Robertson's Ready Mix	14250 OLD 215 FRONTAGE RD MORENO VALLEY CA 92552 ***Site ID**: 148611*	W	0.12 / 659.74	6

HIST TANK - Historical Hazardous Substance Storage Container Information - Facility Summary

A search of the HIST TANK database, dated May 27, 1988 has found that there are 2 HIST TANK site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
FLITE CHIEF	22144 ALESSANDRO EDGEMONT CA	NNE	0.16 / 844.33	9

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
CHARLEBOIS LIQUORS	21840 ALESSANDRO BLVD. MORENO VALLEY CA	NW	0.22 / 1,135.75	15

VCP - Voluntary Cleanup Program

A search of the VCP database, dated Sep 15, 2021 has found that there are 1 VCP site(s) within approximately 0.50 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ALESSANDRO PROPERTIES	14044 OLD 215 FRONTAGE ROAD AND 21839 & 21921 ALESSANDRO BOULEVARD MORENO VALLEY CA 92553 ***Estor/EPA ID | Cleanup Status**: 60002840 | ACTIVE AS OF 6/13/2019*	NW	0.15 / 810.67	7

DELISTED COUNTY - Delisted County Records

A search of the DELISTED COUNTY database, dated Dec 10, 2021 has found that there are 5 DELISTED COUNTY site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Collision Center of Moreno Valley	14441 Commerce Center Dr Moreno Valley CA 92553	SE	0.18 / 930.52	12

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Tractorland Equipment Company	21921 Alessandro Blvd Moreno Valley CA 92553	WNW	0.09 / 497.39	4
Robertson's Ready Mix	14250 Old 215 Frontage Moreno Valley CA 92552	W	0.12 / 659.74	6
Baldwin Automotive	21891 Alessandro Blvd Moreno Valley CA 92553	NW	0.18 / 944.09	13
Barons Auto Service	21866 Alessandro Blvd Moreno Valley CA 92553	NW	0.19 / 1,028.76	14

County

LOP RIVERSIDE - Riverside County - Local Oversight Program List

A search of the LOP RIVERSIDE database, dated Jul 22, 2021 has found that there are 6 LOP RIVERSIDE site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Gas 4 Less	22144 Alessandro Blvd Moreno Valley CA ***Site ID | Status Desc**: 9915615 |*	NNE	0.16 / 844.33	9
Flite Chief (Mobil)	22144 Alessandro Blvd Moreno Valley CA ***Site ID | Status Desc**: 91630 | CLOSED/ACTION COMPLETED*	NNE	0.16 / 844.33	9
TEXACO (SHELL) CACTUS AVE	22470 CACTUS AVE MORENO VALLEY CA	ESE	0.41 / 2,141.40	22

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
	Site ID* | *Status Desc: *200219022* | *CLOSED/ACTION COMPLETED*			

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Charlebois Liquors	21840 Alessandro Blvd Moreno Valley CA	NW	0.22 / 1,135.75	15
	Site ID* | *Status Desc: *89200* |			
ARCO #6345	2624 E ALESSANDRO BLVD RIVERSIDE CA	WNW	0.45 / 2,389.60	26
	Site ID* | *Status Desc: *970696* | *CLOSED/ACTION COMPLETED*			
Chevron #1480	22520 Cactus Ave Moreno Valley CA	ESE	0.46 / 2,433.21	28
	Site ID* | *Status Desc: *971155* | *CLOSED/ACTION COMPLETED*			

UST RIVERSIDE - Riverside County - Underground Storage Tanks List

A search of the UST RIVERSIDE database, dated Jul 22, 2021 has found that there are 1 UST RIVERSIDE site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Robertson's Ready Mix	14250 Old 215 Frontage Moreno Valley CA 92552	W	0.12 / 659.74	6
	No of Tanks: *1*			

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Nov 2, 2020 has found that there are 1 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
BAS RECYCLING	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	1
	Registry ID: *110059741347*			

FUDS - Formerly Used Defense Sites

A search of the FUDS database, dated May 26, 2021 has found that there are 2 FUDS site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
MARCH FIELD	MARCH AIR FORCE BASE CA	NE	0.00 / 0.00	1
	FUDS Property No: *J09CA7168*			

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
CAMP HAAN	RIVERSIDE CA ***FUDS Property No**: J09CA0279*	SW	0.99 / 5,249.06	31

MRDS - Mineral Resource Data System

A search of the MRDS database, dated Mar 15, 2006 has found that there are 3 MRDS site(s) within approximately 1.00 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
UNNAMED PIT	RIVERSIDE COUNTY RIVERSIDE CA 92508 ***Dep ID**: 10212912*	W	0.88 / 4,621.74	29

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
UNNAMED PIT	RIVERSIDE COUNTY RIVERSIDE CA 92506 ***Dep ID**: 10139867*	WNW	0.90 / 4,776.69	30
PIT	RIVERSIDE COUNTY RIVERSIDE CA 92506 ***Dep ID**: 10110905*	WNW	0.90 / 4,776.69	30

State

HAZNET - Hazardous Waste Manifest Data

A search of the HAZNET database, dated Oct 24, 2016 has found that there are 2 HAZNET site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
JOHN SANGA	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	1
BAS RECYCLING INC	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	1

WASTE TIRE - Registered Waste Tire Haulers

A search of the WASTE TIRE database, dated Dec 16, 2020 has found that there are 1 WASTE TIRE site(s) within approximately 0.02 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
BAS RECYCLING, INC.	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	1

CERS HAZ - California Environmental Reporting System (CERS) Hazardous Waste Sites

A search of the CERS HAZ database, dated Sep 24, 2021 has found that there are 2 CERS HAZ site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
BAS Recycling	14050 DAY ST MORENO VALLEY CA 92553	NE	0.00 / 0.00	1
Supreme Truck Bodies Of California	22135 ALESSANDRO BLVD MORENO VALLEY CA 92553	NE	0.10 / 519.67	5

DELISTED HAZ - Delisted Environmental Reporting System (CERS) Hazardous Waste Sites

A search of the DELISTED HAZ database, dated Nov 29, 2018 has found that there are 1 DELISTED HAZ site(s) within approximately 0.50 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Moreno Valley Regional Dialysis Ctr	22620 GOLDENCREST DR STE 101 MORENO VALLEY CA 92553	ESE	0.45 / 2,366.39	25

EMISSIONS - Toxic Pollutant Emissions Facilities

A search of the EMISSIONS database, dated Dec 31, 2019 has found that there are 15 EMISSIONS site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
REDMAN HOMES INC	22201 ALESSANDRO BL RIVERSIDE CA 92508	ENE	0.07 / 352.07	2
SUPREME TRUCK BODIES OF CALIF30NIA	22135 ALESSANDRO BLVD M30ENO VALLEY CA 92553	NE	0.10 / 519.67	5
ROHR IND INC	22135 ALLESSANDRO BL EDGEMONT CA 92102	NE	0.10 / 519.67	5
ROHR IND INC	22135 ALLESSANDRO BL MORENO VALLEY CA 92388	NE	0.10 / 519.67	5
ROHR IND INC	22135 ALESSANDRO BL MORENO VALLEY CA 92388	NE	0.10 / 519.67	5
SUPREME TRUCK BODIES OF CALIFORNIA	22135 ALESSANDRO BLVD MORENO VALLEY CA 92553	NE	0.10 / 519.67	5

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
PORVENE DOORS INC	14241 GRANT ST MORENO VALLEY CA 92553	E	0.16 / 833.15	8
FIX AUTO MORENO VALLEY	14441 COMMERCE CENTER DR BLDG 'B' MORENO VALLEY CA 92553	SE	0.18 / 930.52	12
FIX AUTO MORENO VALLEY	14441 COMMERCE CENTER DR BLDG B MORENO VALLEY CA 92553	SE	0.18 / 930.52	12
COLLISION CENTER OF M30ENO VALLEY	14441 COMMERCE CENTER DR BLDG 'B' M30ENO VALLEY CA 92553	SE	0.18 / 930.52	12
ALL MAGIC PAINT & BODY	14461 COMMERCE CENTER DR MORENO VALLEY CA 92553	SE	0.22 / 1,139.95	16
BEN CLYMER'STHE BODY SHOP	22335 ALESSANDRO MORENO VALLEY CA 92553	ENE	0.25 / 1,319.48	20
BEN CLYMER'S THE BODY SHOP	22335 ALESSANDRO MORENO VALLEY CA 92553	ENE	0.25 / 1,319.48	20
BEN CLYMER'S 'THE BODY SHOP'	22335 ALESSANDRO MORENO VALLEY CA 92553	ENE	0.25 / 1,319.48	20

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
ARCO AM/PM TESORO REFINING & MARKETING C	22330 CACTUS AVE MORENO VALLEY CA 92553	SSE	0.25 / 1,295.96	19

County

HWG RIVERSIDE - Riverside County - Hazardous Waste Generator Sites List

A search of the HWG RIVERSIDE database, dated Jul 22, 2021 has found that there are 4 HWG RIVERSIDE site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
BAS Recycling	14050 Day St Moreno Valley CA 92553	NE	0.00 / 0.00	1
United Natural Foods, Inc-Moreno Valley	22150 Goldencrest Dr Moreno Valley CA 92553	SE	0.08 / 441.99	3

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
Supreme Truck Bodies Of California	22135 Alessandro Blvd Moreno Valley CA 92553	NE	0.10 / 519.67	5

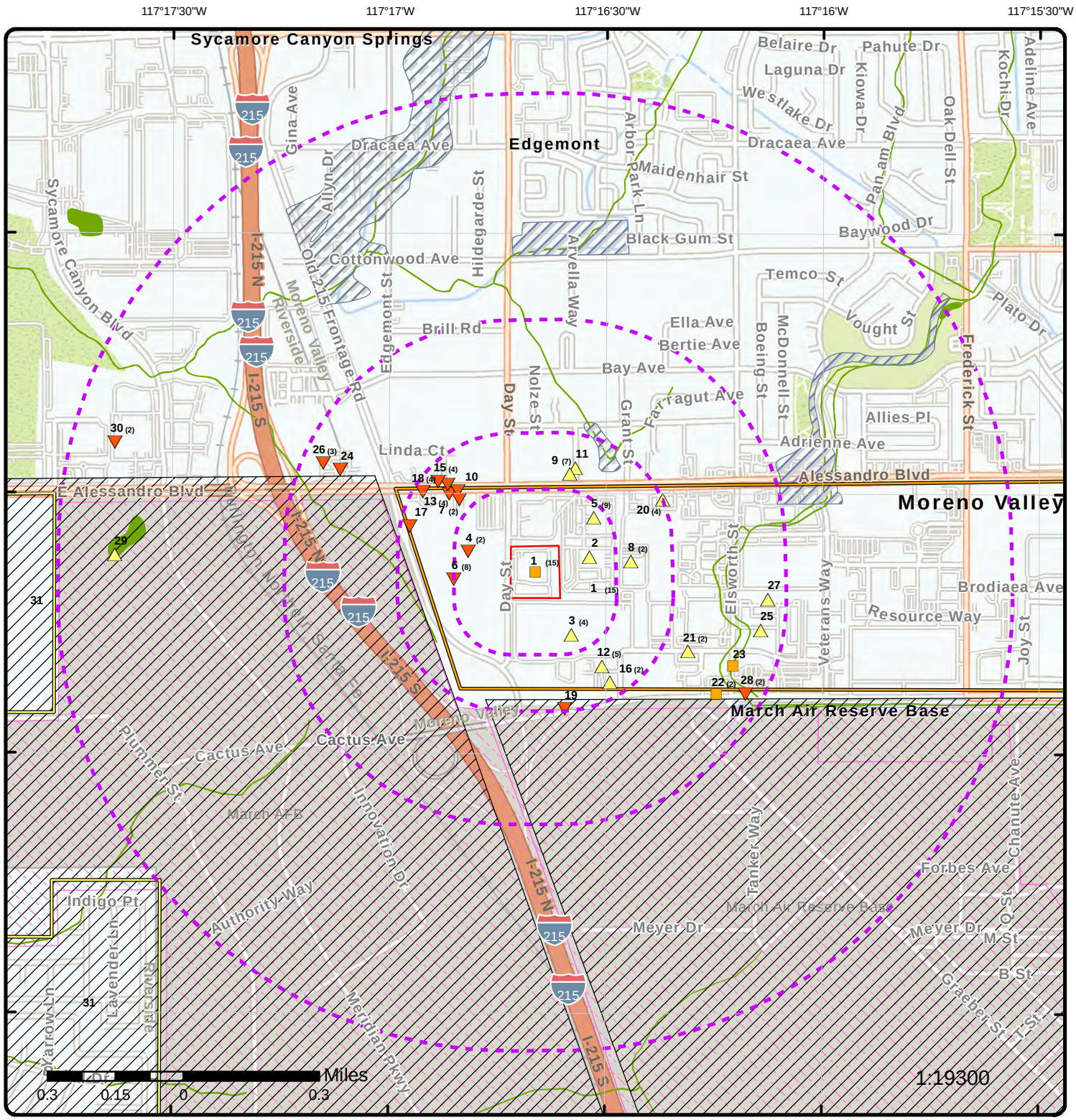
Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Robertson's Ready Mix	14250 Old 215 Frontage Moreno Valley CA 92552	W	0.12 / 659.74	6

HZH RIVERSIDE - Riverside County - Disclosure Facility List

A search of the HZH RIVERSIDE database, dated Jul 22, 2021 has found that there are 4 HZH RIVERSIDE site(s) within approximately 0.12 miles of the project property.

Equal/Higher Elevation	Address	Direction	Distance (mi/ft)	Map Key
BAS Recycling	14050 Day St Moreno Valley CA 92553	NE	0.00 / 0.00	1
United Natural Foods, Inc-Moreno Valley	22150 Goldencrest Dr Moreno Valley CA 92553	SE	0.08 / 441.99	3
Supreme Truck Bodies Of California	22135 Alessandro Blvd Moreno Valley CA 92553	NE	0.10 / 519.67	5

Lower Elevation	Address	Direction	Distance (mi/ft)	Map Key
Robertson's Ready Mix	14250 Old 215 Frontage Moreno Valley CA 92552	W	0.12 / 659.74	6

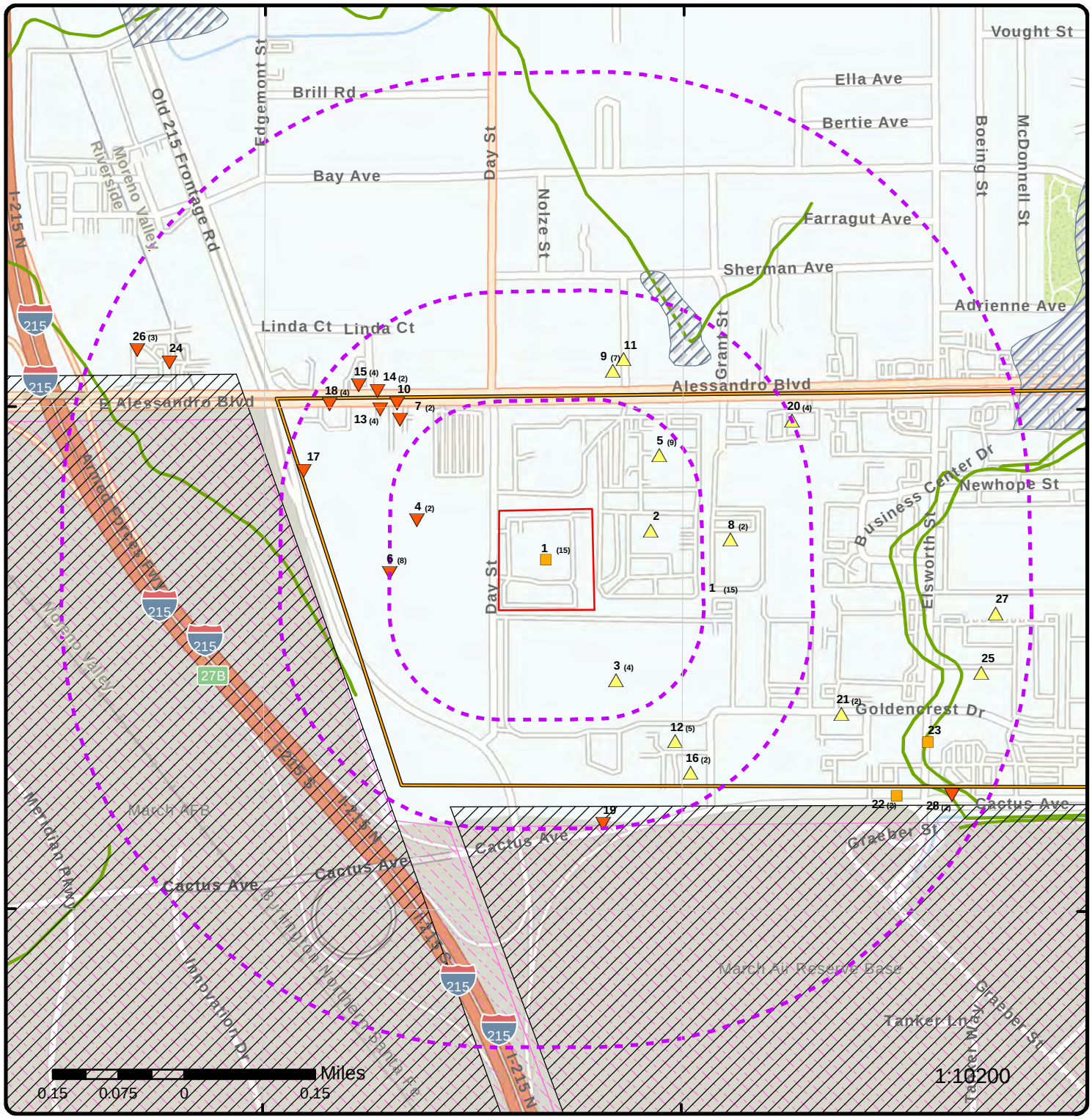


Map: 1.0 Mile Radius

Order Number: 21122800480

Address: 14050 Day Street, Moreno Valley, CA

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

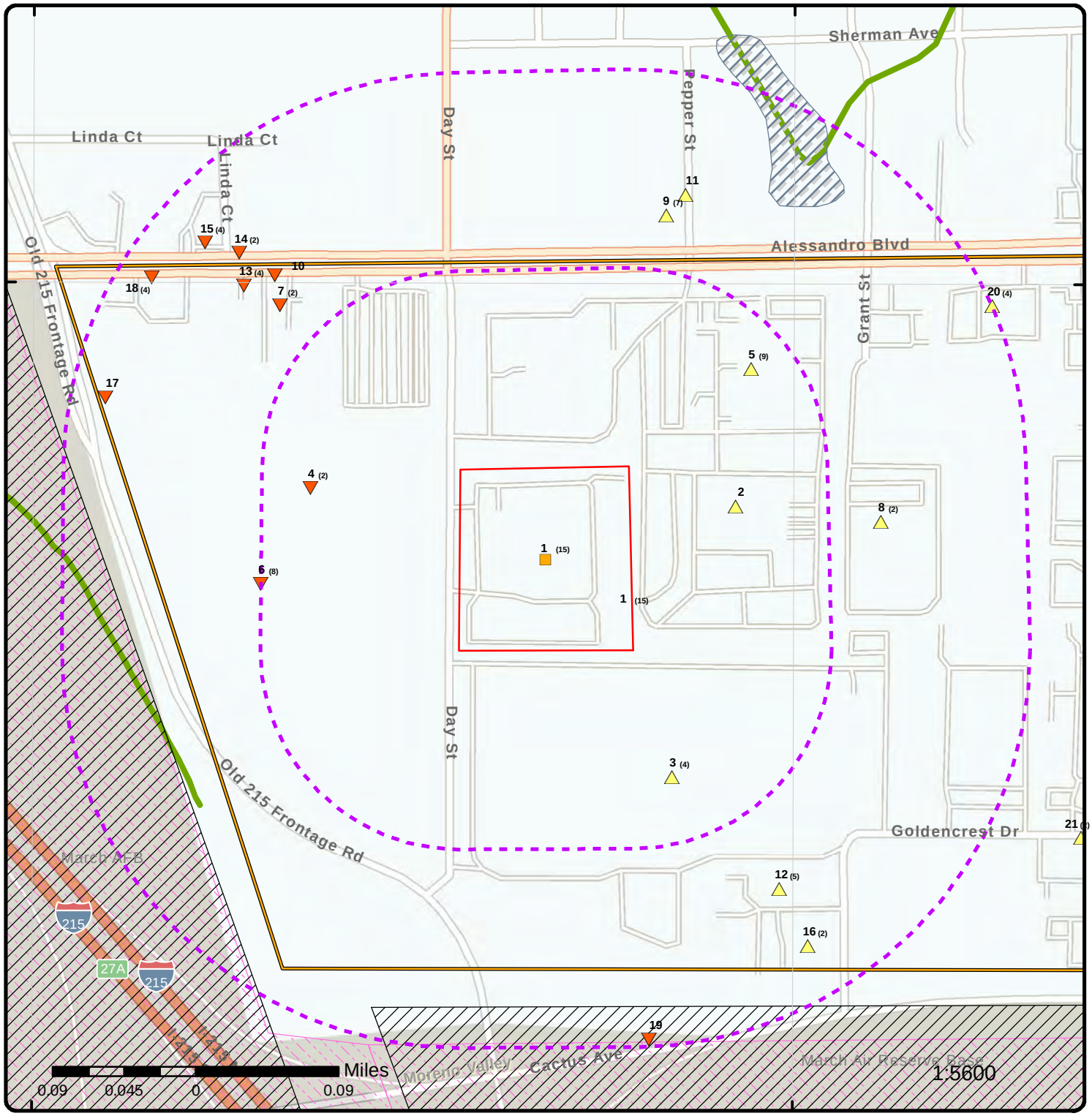


Map: 0.5 Mile Radius

Order Number: 21122800480

Address: 14050 Day Street, Moreno Valley, CA

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

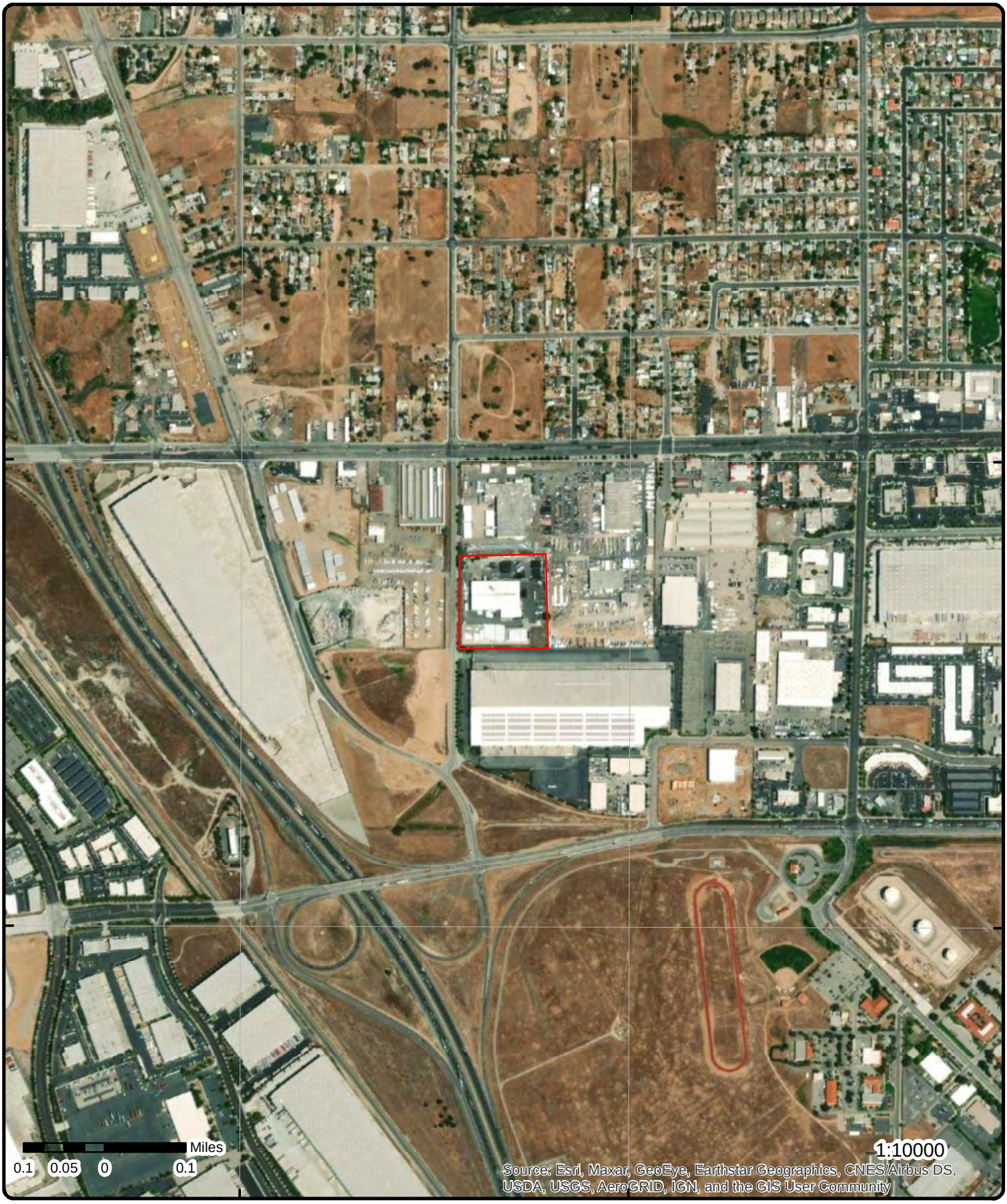


Map: 0.25 Mile Radius

Order Number: 21122800480

Address: 14050 Day Street, Moreno Valley, CA

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major & Minor Arterial
- Traffic Circle; Ramp
- Local Road
- Rail
- State
- Country
- National Priority List Sites
- National Wetland
- Indian Reserve Land
- Historic Fill
- 100 Year Flood Zone
- 500 Year Flood Zone
- FWS Special Designation Areas
- Plume

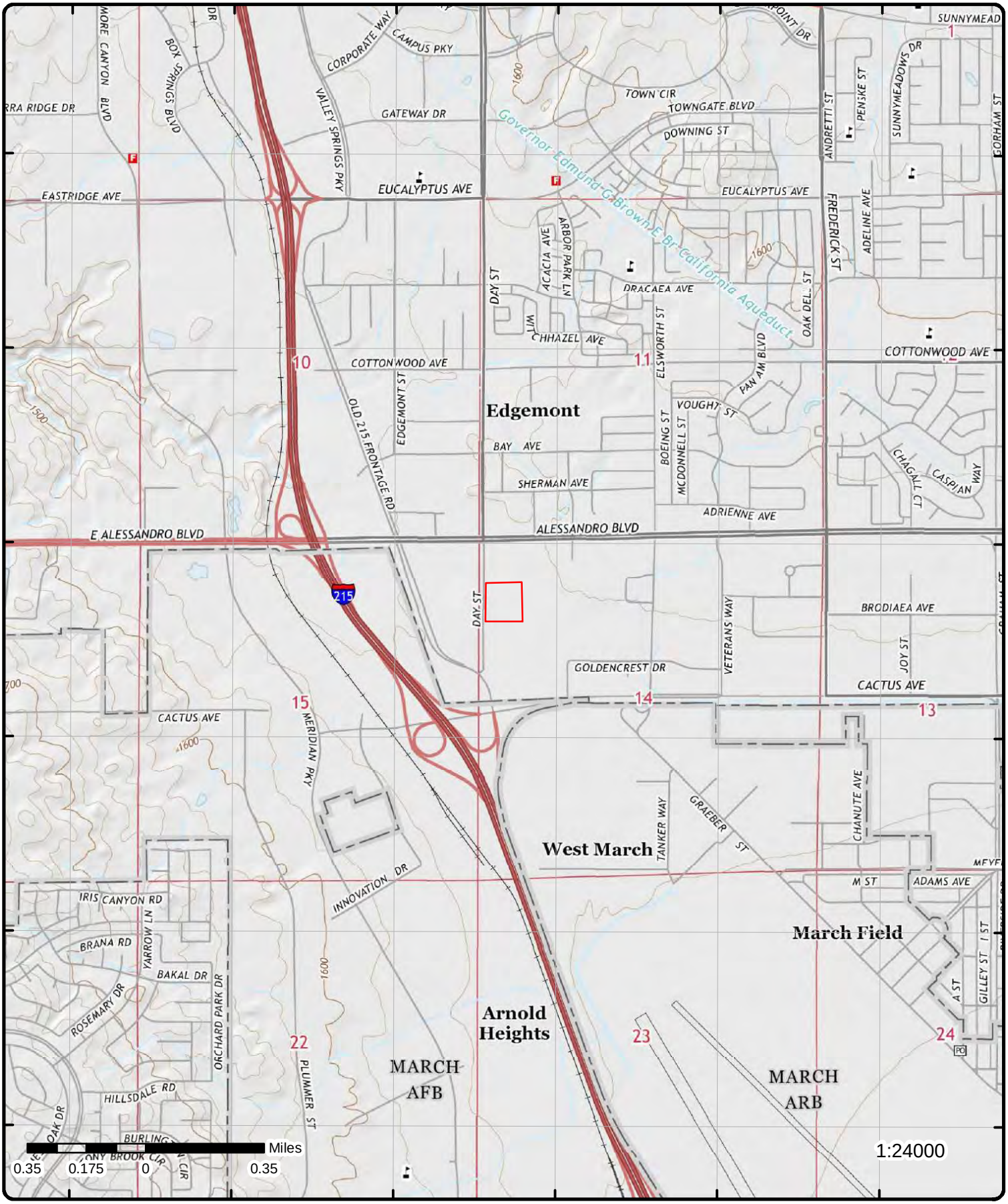


Aerial **Year: 2021**

Order Number: 21122800480

Address: 14050 Day Street, Moreno Valley, CA

Source: ESRI World Imagery



Topographic Map

Year: 2015

Address: 14050 Day Street, CA

Quadrangle(s): Riverside East, CA; Sunnymead, CA

Source: USGS Topographic Map

Order Number: 21122800480

ERIS

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 15	NE	0.00 / 0.00	1,552.50 / 0	BAS Recycling 14050 Day St Moreno Valley CA 92553	HZH RIVERSIDE
1	2 of 15	NE	0.00 / 0.00	1,552.50 / 0	BAS Recycling 14050 Day St Moreno Valley CA 92553	HWG RIVERSIDE
1	3 of 15	NE	0.00 / 0.00	1,552.50 / 0	BAS RECYCLING 14050 DAY ST MORENO VALLEY CA 92553	FINDS/FRS

Registry ID: 110059741347
FIPS Code: 33
HUC Code: 18070203
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 27-JUN-14
Update Date: 11-OCT-18
Interest Types: ICIS-NPDES NON-MAJOR, OSHA ESTABLISHMENT, OTHER HAZARDOUS WASTE ACTIVITIES, STATE MASTER, TRANSPORTER
SIC Codes: 3069
SIC Code Descriptions: FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED
NAICS Codes: 326299, 339920, 811198
NAICS Code Descriptions: ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE., ALL OTHER RUBBER PRODUCT MANUFACTURING., SPORTING AND ATHLETIC GOODS MANUFACTURING.
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 45
Census Block Code: 060650467003015
EPA Region Code: 09
County Name: RIVERSIDE
US/Mexico Border Ind:
Latitude: 33.91412
Longitude: -117.27769
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110059741347
Program Acronyms:

CA-CERS:10326781, CA-ENVIROVIEW:97482, NPDES:CAZ428576, OSHA-OIS:313507162, OSHA-OIS:341831691, RCRAINFO:CAL000343884

1	4 of 15	NE	0.00 / 0.00	1,552.50 / 0	JOHN SANGA 14050 DAY ST	HAZNET

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					MORENO VALLEY CA 92553	

SIC Code:	9999	**Mailing City:**	MORENO VALLEY
NAICS Code:	99999	**Mailing State:**	CA
EPA ID:	CAL000260427	**Mailing Zip:**	92553
Create Date:	10/8/2002 11:05:28 AM	**Region Code:**	4
Fac Act Ind:	No	**Owner Name:**	JOHN SANGA
Inact Date:	6/30/2003	**Owner Addr 1:**	14050 DAY ST
County Code:	33	**Owner Addr 2:**	
County Name:	Riverside	**Owner City:**	MORENO VALLEY
Mail Name:		**Owner State:**	CA
Mailing Addr 1:	14050 DAY ST	**Owner Zip:**	92553
Mailing Addr 2:		**Owner Phone:**	9096563185
Owner Fax:			

Contact Information

--	--
Contact Name:	JOHN SANGA
Street Address 1:	14050 DAY ST
Street Address 2:	
City:	MORENO VALLEY
State:	CA
Zip:	92553
Phone:	9096563185
--	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	5 of 15	NE	0.00 / 0.00	1,552.50 / 0	BAS RECYCLING INC 14050 DAY ST MORENO VALLEY CA 92553	HAZNET

SIC Code:	7534,7549	**Mailing City:**	MORENO VALLEY
NAICS Code:	811198	**Mailing State:**	CA
EPA ID:	CAL000343884	**Mailing Zip:**	925530000
Create Date:	6/11/2009	**Region Code:**	4
Fac Act Ind:	Yes	**Owner Name:**	BAS RECYCLING INC
Inact Date:		**Owner Addr 1:**	1140 GRACE LN
County Code:	33	**Owner Addr 2:**	
County Name:	Riverside	**Owner City:**	LOS ANGELES
Mail Name:		**Owner State:**	CA
Mailing Addr 1:	14050 DAY ST	**Owner Zip:**	900491555
Mailing Addr 2:		**Owner Phone:**	3104293546
Owner Fax:	9512146595		

Contact Information

--	--
Contact Name:	FLORIN ARDELEAN
Street Address 1:	14050 DAY ST
Street Address 2:	
City:	MORENO VALLEY
State:	CA
Zip:	92553
Phone:	9512146590
--	--
--	--

Tanner Information

--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD982444481
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	221
State Waste Code Desc.:	Waste oil and mixed oil
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	1.045

Year:	2014
--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD008252405
TSD County Code:	19
TSD County:	Los Angeles
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	H061
Method Description:	FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons:	0.165
Year:	2010
--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD008252405
TSD County Code:	19
TSD County:	Los Angeles
State Waste Code:	331
State Waste Code Desc.:	Off-specification, aged or surplus organics
Method Code:	H061
Method Description:	FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons:	0.1815
Year:	2011
--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD982444481
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	343
State Waste Code Desc.:	Unspecified organic liquid mixture
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.034
Year:	2010
--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD982444481
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	352
State Waste Code Desc.:	Other organic solids
Method Code:	H129
Method Description:	OTHER TREATMENT
Tons:	0.0375
Year:	2010
--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD982444481
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	352
State Waste Code Desc.:	Other organic solids
Method Code:	H141
Method Description:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.35
Year:	2011
--	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD982444481
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	512
State Waste Code Desc.:	Other empty containers 30 gallons or more
Method Code:	H039
Method Description:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	0.3
Year:	2012
--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD982444481
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	512
State Waste Code Desc.:	Other empty containers 30 gallons or more
Method Code:	H129
Method Description:	OTHER TREATMENT
Tons:	0.685
Year:	2010
--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD982444481
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	512
State Waste Code Desc.:	Other empty containers 30 gallons or more
Method Code:	H129
Method Description:	OTHER TREATMENT
Tons:	0.605
Year:	2011
--	--
Generator EPA ID:	CAL000343884
Generator County Code:	33
Generator County:	Riverside
TSD EPA ID:	CAD982444481
TSD County Code:	36
TSD County:	San Bernardino
State Waste Code:	512
State Waste Code Desc.:	Other empty containers 30 gallons or more
Method Code:	H129
Method Description:	OTHER TREATMENT
Tons:	0.155
Year:	2012
--	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	6 of 15	NE	0.00 / 0.00	1,552.50 / 0	MARCH FIELD MARCH AIR FORCE BASE CA	FUDS

FUDS Property No:	J09CA7168
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=53630
FUDS INST ID:	CA99799F999100
Status:	
SDS ID:	
NPL Status Code:	Not on the NPL
Eligibility:	Eligible
Site Eligib:	
Current Owner:	
Has Project:	Yes

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

DOD FUDS Pro:
Project Required: Yes
No Further Action:
Congressional District: 41
EPA Region: 09
County: RIVERSIDE
Latitude: 33.913799
Longitude: -117.262001
Fiscal year: 2019
USACE Division: SPD
USACE District: Los Angeles District (SPL)
Shape Area: .00025269
Shape Len: .0899511
Centroid Latitude:
Centroid Longitude:
Media ID:
Metadata ID:
Feature Desc:
Property History: The U.S. Army acquired use of 640 acres in 1918 and established March Field. Initially, the airfield was used for primary flight training. During WWII, the airfield was used for bomber training. The Army Air Corps leased a total of 654.61 acres immediate

---

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	7 of 15	NE	0.00 / 0.00	1,552.50 / 0	BAS Recycling 14050 DAY ST MORENO VALLEY CA 92553	CERS HAZ

Site ID: 387548
Latitude: 33.915110
Longitude: -117.278590
County:

Regulated Programs

EI ID: 10326781 **EI Description:** Hazardous Waste Generator

EI ID: 10326781 **EI Description:** Chemical Storage Facilities

Violations

Violation Date: 03/24/2021 **Violation Source:** CERS
Violation Program: HW **Violation Division:** Riverside County Department of Env Health
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Notes:

Please see compliance item #2 for further detail.

Violation Description:

Failure to send hazardous waste offsite for treatment, storage, or disposal of acute/extremely hazardous waste after the first 1-kilogram threshold amount was accumulated within a 90 day period.

Violations

Violation Date: 03/17/2014 **Violation Source:** CERS
Violation Program: HW **Violation Division:** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 04/01/2014.

Violation Description:

Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the

generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 03/24/2021 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Notes:

OBSERVATION: Observed soiled absorbent and liquid in tertiary containment as well as liquid in secondary containment pallets. CORRECTIVE ACTION: Owner/operator shall remove soiled absorbent and liquid from tertiary containment, and liquid in secondary containment pallets, and manage according to Title 22 hazardous waste regulations. Pictures can be emailed to: rsgarcia@rivco.org, faxed to: 951-791-1778, or I can stop by to review in-person.

Violation Description:

Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

Violations

Violation Date: 03/24/2021 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Notes:

OBSERVATION: No training records observed for 2020 due to CO-VID 19 as well as no records for 2021. CORRECTIVE ACTION: Owner/operator shall provide training to all employees. Documentation shall be retained and be made available for inspection for a minimum period of 3 years from the date of the training. Pictures can be emailed to: rsgarcia@rivco.org, faxed to: 951-791-1778, or I can stop by to review in-person.

Violation Description:

Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violations

Violation Date: 03/24/2021 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Notes:

OBSERVATION: The latest manifest for used oil indicates the waste was last hauled off on 11/15/2019. CORRECTIVE ACTION: Owner/operator shall ensure all hazardous wastes are transported off site within 180 days of the accumulation start date. Owner/operator shall have both drums properly hauled off site by a registered hazardous waste transporter. Documentation of removal can be emailed to: rsgarcia@rivco.org, faxed to: 951-791-1778, or I can stop by to review in-person.

Violation Description:

Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met:
(1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms.

(2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f).

(3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.

Violations

Violation Date: 03/24/2021 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 265.174 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.174

Violation Notes:

OBSERVATION: Observed that weekly inspections of hazardous waste storage areas are occurring however, deficiencies observed are not being corrected. Specifically, inspection of hazardous waste storage area in regards to drum labeling and absorbent and liquid accumulation. Please see compliance item #1 and #8 for further detail. CORRECTIVE ACTION: Owner/operator shall correct any deficiencies observed during weekly hazardous waste storage area inspections.

Violation Description:

Failure to inspect hazardous waste storage areas at least weekly and look for leaking and deteriorating containers.

Violations

Violation Date: 03/24/2021 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

OBSERVATION: Observed grey drum labeled "used oil" and red drum with incomplete labeling. Information missing for grey drum included ""hazardous waste"", generator name and address, accumulation start date, and physical state of waste. Information missing for red drum included generator name and address, accumulation start date, composition and physical state of waste; red drum was not identified while on-site. CORRECTIVE ACTION: Owner/operator shall label hazardous waste containers with all the required information. Label shall include at least: the words ""hazardous waste"", generator name and address, accumulation start date, composition and physical state of waste, and hazardous property statement. Pictures can be emailed to: rsgarcia@rivco.org, faxed to: 951-791-1778, or I can stop by to review in-person.

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 03/17/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Notes:

Returned to compliance on 04/01/2014.

Violation Description:

Failure to properly close hazardous waste containers when not in active use.

Violations

Violation Date: 03/17/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 15 66265.31 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.31
Violation Notes:

Returned to compliance on 04/01/2014.

Violation Description:

Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to the air, soil, or surface water which could threaten human health or the environment.

Violations

Violation Date: 03/17/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174

Violation Notes:

Returned to compliance on 04/01/2014.

Violation Description:

Failure to inspect hazardous waste storage areas at least weekly.

Violations

Violation Date: 03/24/2021 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.5 25144.6(b) - California Health and Safety Code, Chapter 6.5, Section(s) 25144.6(b)
Violation Notes:

OBSERVATION: Observed improper textile/contaminated rag management. Observed soiled rag and debris on cart near binder totes. CORRECTIVE ACTION: Owner/operator shall properly manage used/soiled textiles. Owner/operator shall acquire hazardous waste solids drum and store within drum. Please see compliance item #20 for further detail.

Violation Description:

Failure to properly manage reusable soiled textile materials prior to being sent for laundering.

Violations

Violation Date: 03/17/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 15 66265.171 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.171
Violation Notes:

Returned to compliance on 04/01/2014.

Violation Description:

Failure to accumulate hazardous waste in a container that is in good condition.

Violations

Violation Date: 07/05/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 04/26/2018.

Violation Description:

Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

Violations

Violation Date: 03/24/2021 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 265.32 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.32
Violation Notes:

OBSERVATION: Observed lack of adequate spill equipment. Observed no means of containerizing soiled absorbent. CORRECTIVE ACTION: Owner/operator shall acquire a container with appropriate labeling for soiled absorbent and maintain on site and available for use.

Violation Description:

Failure of the facility to maintain the following emergency equipment or equivalents:

1) An internal communications or alarm system;
2) A device, such as a telephone (immediately available at the scene of Operations/ Maintenance) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams;
3) Portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment; and
4) Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems.

Enforcements

Enf Action Date: 03/17/2014
Enf Action Program: HW
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Source: CERS
Enf Action Division: Riverside County Department of Env Health
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 03/17/2014
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 04/26/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 03/24/2021
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Facility is a rubber turf manufacturer with l.p.g., nitrogen, oil, oxygen, and paint on-site.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/05/2017
Violations Found: Yes
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 03/27/2014
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW

Eval Source: CERS
Eval Notes:

Eval Date: 03/24/2021
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Facility is a rubber turf manufacturer which generates hazardous waste in the forms of used oils, rags, and absorbent. While on-site observed rubber/metal dust throughout the facility produced during day-to-day operations; metal dust is a known toxic material to humans and the environment. Facility is recommended to evaluate possible ways to mitigate and prevent such generation of rubber/metal dust.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/26/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 03/17/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Document Preparer
Entity Name: Florin Ardelean
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Environmental Contact
Entity Name: Florin Ardelean
Entity Title:
Address: 14050 Day St
City: Moreno Valley
State: CA
Country:
Zip Code: 92553
Phone:

Affil Type Desc: Operator
Entity Name: Sako Beudjekian
Entity Title:
Address:
City:
State:
Country:
Zip Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Phone: (951) 214-6590

Affil Type Desc: Legal Owner
Entity Name: Lakin Tire West
Entity Title:
Address: 15305 Spring Ave
City: Santa Fe Springs
State: CA
Country: United States
Zip Code: 90670
Phone: (562) 802-2752

Affil Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title:
Address: 4065 County Circle Drive, Room 104
City: Riverside
State: CA
Country:
Zip Code: 92503
Phone: (951) 358-5055

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 14050 Day St
City: Moreno Valley
State: CA
Country:
Zip Code: 92553
Phone:

Affil Type Desc: Identification Signer
Entity Name: Florin Ardelean
Entity Title: VP Operations
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: Lakin Tire West, LLC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Coordinates

Env Int Type Code:	HMBP	**Longitude:**	-117.277690
Program ID:	10326781	**Coord Name:**	
Latitude:	33.914130	**Ref Point Type Desc:**	Center of a facility or station.

1	***8 of 15***	***NE***	***0.00 / 0.00***	***1,552.50 / 0***	***BAS RECYCLING INC 14050 DAY ST MORENO VALLEY CA 92553***	***RCRA NON GEN***

EPA Handler ID: CAL000343884
Gen Status Universe: No Report
Contact Name: FLORIN ARDELEAN
Contact Address: 14050 DAY ST , , MORENO VALLEY , CA, 92553 ,
Contact Phone No and Ext: 951-214-6590

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Contact Email: FARDELEAN@BASRECYCLING.COM
Contact Country:
County Name: RIVERSIDE
EPA Region: 09
Land Type:
Receive Date: 20090611
Location Latitude: 33.914231
Location Longitude: -117.278726

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20090611
Handler Name: BAS RECYCLING INC
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: BAS RECYCLING INC
Date Became Current:
Date Ended Current:
Phone: 310-429-3546
Source Type: Implementer
Street No:
Street 1: 1140 GRACE LN
Street 2:
City: LOS ANGELES
State: CA
Country:
Zip Code: 90049-1555

Owner/Operator Ind: Current Operator
Type: Other
Name: FLORIN ARDELEAN
Date Became Current:
Date Ended Current:
Phone: 951-214-6590
Source Type: Implementer
Street No:
Street 1: 14050 DAY ST
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553

1	9 of 15	NE	0.00 / 0.00	1,552.50 / 0	BAS RECYCLING, INC. 14050 DAY ST MORENO VALLEY CA 92553	C&D DEBRIS RECY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
County:		RIVERSIDE				
Activity Type:		TIRE-DERIVED PRODUCT MANUFACTURING WASTE TIRE PROCESSING				
Phone No:		(915) 214-6590				
1	10 of 15	NE	0.00 / 0.00	1,552.50 / 0	INTERNATIONAL MULCH COMPANY 14050 DAY ST MORENO VALLEY CA 92553	C&D DEBRIS RECY
County:		RIVERSIDE				
Activity Type:		TIRE-DERIVED PRODUCT MANUFACTURING				
Phone No:		(866) 936-8524				
1	11 of 15	NE	0.00 / 0.00	1,552.50 / 0	ENVIRONMENTAL MOLDING CONCEPTS LLC 14050 DAY ST MORENO VALLEY CA 92553	C&D DEBRIS RECY
County:		RIVERSIDE				
Activity Type:		TIRE-DERIVED PRODUCT MANUFACTURING				
Phone No:		(888) 836-2665				
1	12 of 15	NE	0.00 / 0.00	1,552.50 / 0	BAS RECYCLING, INC. 14050 DAY ST MORENO VALLEY CA 92553	WASTE TIRE
Organization ID:		1565901				
Regulator Status:						
Site Type:						
Contact Name:						
Organization Phone:		(909) 383-7050				
County:						
Suffix:						
1	13 of 15	NE	0.00 / 0.00	1,552.50 / 0	LAKIN TIRE WEST LLC DBA BAS RECYCLING 14050 DAY ST MORENO VALLEY CA 92553	RCRA NON GEN
EPA Handler ID:		CAL000464375				
Gen Status Universe:		No Report				
Contact Name:		FLORIN ARDELEAN				
Contact Address:		14050 DAY ST , , MORENO VALLEY , CA, 92553 ,				
Contact Phone No and Ext:		951-214-6590				
Contact Email:		FARDELEAN@BASRECYCLING.COM				
Contact Country:						
County Name:		RIVERSIDE				
EPA Region:		09				
Land Type:						
Receive Date:		20210730				
Location Latitude:						
Location Longitude:						

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20210730
Handler Name: LAKIN TIRE WEST LLC DBA BAS RECYCLING
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: LAKIN TIRE WEST LLC
Date Became Current:
Date Ended Current:
Phone: 412-562-1700
Source Type: Implementer
Street No:
Street 1: 600 RIVER AVE 3RD FLR
Street 2:
City: PITTSBURGH
State: PA
Country:
Zip Code: 15212

Owner/Operator Ind: Current Operator
Type: Other
Name: FLORIN ARDELEAN
Date Became Current:
Date Ended Current:
Phone: 951-214-6590
Source Type: Implementer
Street No:
Street 1: 14050 DAY ST
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	14 of 15	NE	0.00 / 0.00	1,552.50 / 0	FIRST INDUSTRIAL LP 14050 DAY ST MORENO VALLEY CA 92553	RCRA NON GEN

EPA Handler ID: CAC003141623
Gen Status Universe: No Report
Contact Name: JON RALEIGH
Contact Address: 1 N WACKER DR STE 4200 , , CHICAGO , IL, 60606 ,
Contact Phone No and Ext: 312-344-4395
Contact Email: JON.RALEIGH@FIRSTINDUSTRIALREALTY.COM
Contact Country:
County Name: RIVERSIDE
EPA Region: 09
Land Type:
Receive Date: 20211001
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20211001
Handler Name:	FIRST INDUSTRIAL LP
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	1 N WACKER DR STE 4200
Name:	JON RALEIGH	**Street 2:**	
Date Became Current:		**City:**	CHICAGO
Date Ended Current:		**State:**	IL
Phone:	312-344-4395	**Country:**	
Source Type:	Implementer	**Zip Code:**	60606
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	1 N WACKER DR STE 4200
Name:	FIRST INDUSTRIAL LP	**Street 2:**	
Date Became Current:		**City:**	CHICAGO
Date Ended Current:		**State:**	IL
Phone:	312-344-4395	**Country:**	
Source Type:	Implementer	**Zip Code:**	60606

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	15 of 15	NE	0.00 / 0.00	1,552.50 / 0	FIRST INDUSTRIAL LP 14050 DAY ST. MORENO VALLEY CA 92553	RCRA NON GEN

EPA Handler ID:	CAC003142215
Gen Status Universe:	No Report
Contact Name:	DAVID ROSS
Contact Address:	1 N. WHACKER DR , STE4200 , CHICAGO , IL, 60606 ,
Contact Phone No and Ext:	951-321-0193
Contact Email:	DAVID.ROSS@GOBLUSKY.COM
Contact Country:	
County Name:	RIVERSIDE
EPA Region:	09
Land Type:	
Receive Date:	20211005
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20211005
Handler Name:	FIRST INDUSTRIAL LP
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	1 N. WHACKER DR
Name:	DAVID ROSS	***Street 2:***	STE4200
Date Became Current:		***City:***	CHICAGO
Date Ended Current:		***State:***	IL
Phone:	951-321-0193	***Country:***	
Source Type:	Implementer	***Zip Code:***	60606

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	1 N. WHACKER DR
Name:	FIRST INDUSTRIAL LP	***Street 2:***	STE4200
Date Became Current:		***City:***	CHICAGO
Date Ended Current:		***State:***	IL
Phone:	951-321-0193	***Country:***	
Source Type:	Implementer	***Zip Code:***	60606

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
2	*1 of 1*	*ENE*	*0.07 / 352.07*	*1,553.65 / 1*	***REDMAN HOMES INC*** ***22201 ALESSANDRO BL*** ***RIVERSIDE CA 92508***	***EMISSIONS***

1987 Criteria Data

Facility ID:	1675	***CERR Code:***	
Facility SIC Code:	3715	***TOGT:***	1
CO:	33	***ROGT:***	.9044
Air Basin:	SC	***COT:***	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

District: SC
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
NOXT:
SOXT:
PMT:
PM10T:

1987 Toxic Data

Facility ID: 1675
Facility SIC Code: 3715
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

3	1 of 4	SE	0.08 / 441.99	1,553.45 / 1	United Natural Foods, Inc-Moreno Valley 22150 Goldencrest Dr Moreno Valley CA 92553	HZH RIVERSIDE
3	2 of 4	SE	0.08 / 441.99	1,553.45 / 1	United Natural Foods, Inc-Moreno Valley 22150 Goldencrest Dr Moreno Valley CA 92553	HWG RIVERSIDE
3	3 of 4	SE	0.08 / 441.99	1,553.45 / 1	United Natural Foods, Inc-Moreno Valley 22150 GOLDENCREST DR MORENO VALLEY CA 92553	CERS TANK

Site ID: 404953
Longitude: -117.276314
Latitude: 33.912155

Regulated Programs

EI ID: 10484986
EI Description: Hazardous Chemical Management

EI ID: 10484986
EI Description: Aboveground Petroleum Storage

EI ID: 10484986
EI Description: Chemical Storage Facilities

EI ID: 10484986
EI Description: Hazardous Waste Generator

Violations

Violation Date: 06/16/2017
Violation Program: HW
Violation Source: CERS
Violation Division: Riverside County Department of Env Health
Citation: HSC 6.5 25123.3(h)(1)(c) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)(c)
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to send hazardous waste offsite for treatment, storage, or disposal of acute/extremely hazardous waste after the first 1-kilogram threshold amount was accumulated within a 90 day period.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Notes:

Returned to compliance on 06/16/2017.

Violation Description:

Failure to meet the following container management requirements:
(a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.
(b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.

Violations

Violation Date: 11/04/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/30/2019.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 11/04/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/30/2019.

Violation Description:

Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to test and maintain as necessary all facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment to assure its proper operation in time of emergency.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: Un-Specified
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Business Plan Program - Operations/Maintenance - General Local Ordinance

Violations

Violation Date: 11/04/2019 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 12/27/2019.

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 11/04/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/30/2019.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 11/04/2019 ***Violation Source:*** CERS
Violation Program: CalARP ***Violation Division:*** Riverside County Department of Env Health
Citation: 19 CCR 4.5 2745.10(f) - California Code of Regulations, Title 19, Chapter 4.5, Section(s) 2745.10(f)
Violation Notes:

Returned to compliance on 11/04/2019.

Violation Description:

Failure to contact the UPA within 30 days of a change of owner or operator to update the registration information.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Notes:

Returned to compliance on 06/16/2017.

Violation Description:

Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 11/04/2019 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.5 25201.16(f) - California Health and Safety Code, Chapter 6.5, Section(s) 25201.16(f)
Violation Notes:

Returned to compliance on 12/05/2019.

Violation Description:

Failure to comply with the applicable requirements related to accumulation and containment standards for universal waste aerosol cans.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms.
(2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f).
(3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.

Violations

Violation Date: 11/04/2019 ***Violation Source:*** CERS
Violation Program: CalARP ***Violation Division:*** Riverside County Department of Env Health
Citation: 19 CCR 4.5 2745.10.5(b) - California Code of Regulations, Title 19, Chapter 4.5, Section(s) 2745.10.5(b)
Violation Notes:

Returned to compliance on 11/04/2019.

Violation Description:

Failure to correct and submit the emergency contact information in the Risk Management Plan required under Section 2740.1(d)(6) within one month of any change.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)

Violation Notes:

Returned to compliance on 06/16/2017.

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: Un-Specified
Violation Notes:

Returned to compliance on 06/16/2017.

Violation Description:

Business Plan Program - Operations/Maintenance - General Local Ordinance

Violations

Violation Date: 06/16/2017 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 08/21/2017.

Violation Description:

Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

Violations

Violation Date: 11/04/2019 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Notes:

Returned to compliance on 12/05/2019.

Violation Description:

Failure to post the following information next to the telephone:
(A) The name and telephone number of the emergency coordinator;
(B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and

(C) The telephone number of the fire department, unless the facility has a direct alarm.

Violations

Violation Date: 11/04/2019
Violation Source: CERS
Violation Program: CalARP
Violation Division: Riverside County Department of Env Health
Citation: 19 CCR 4.5 2745.10(b) - California Code of Regulations, Title 19, Chapter 4.5, Section(s) 2745.10(b)
Violation Notes:

Returned to compliance on 11/04/2019.

Violation Description:

Failure to revise, update, and submit the Risk Management Plan to the UPA as follows:

1. At least once every five years from the date of its initial submission or most recent update required by section 2745.10(b)(2) through (7);

2. No later than three years after a newly regulated substance is first listed by the California Office of Emergency Services.

3. No later than the date on which a new regulated substance is first present in an already covered process above a threshold quantity;

4. No later than the date on which a regulated substance is first present above a threshold quantity in a new process;

5. Within six months of a change that requires a revised process hazard analysis or hazard Review.

6. Within six months of a change that requires a revised offsite consequence analysis as provided in section 2750.7;

7. Within six months of a change that alters the program level that applied to any covered process.

Evaluations

Eval Date: 11/04/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: CalARP
Eval Source: CERS
Eval Notes:

Eval Date: 06/16/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 06/16/2017
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: APSA
Eval Source: CERS
Eval Notes:

APSA initial inspection; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/22/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection

Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 11/04/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 11/04/2019
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: APSA
Eval Source: CERS
Eval Notes:

Eval Date: 11/04/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/25/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: CalARP
Eval Source: CERS
Eval Notes:

Eval Date: 04/22/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 06/16/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 06/16/2017
Violations Found: No
Eval General Type: Compliance Evaluation Inspection

Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: CalARP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Legal Owner
Entity Name: United Natural Foods, INC
Entity Title:
Address: PO Box 999
City: Dayville
State: CT
Country: United States
Zip Code: 06241-0999
Phone: (800) 779-2800

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: 22150 Goldencrest drive
City: Moreno Valley
State: CA
Country:
Zip Code: 92553
Phone:

Affil Type Desc: Identification Signer
Entity Name: Greg Jackson
Entity Title: Risk Safety Manager
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Property Owner
Entity Name: Buckhead Cactus Commerce, L.L.C.
Entity Title:
Address: c/o TA Realty, LLC, 1301 Dove Street, Suite 860
City: Newport Beach
State: CA
Country: United States
Zip Code: 92660
Phone: (401) 528-8634

Affil Type Desc: Operator
Entity Name: United Natural Foods, INC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (800) 679-8735

Affil Type Desc: Environmental Contact
Entity Name: Greg Jackson
Entity Title:
Address: 22150 Goldencrest drive
City: Moreno Valley
State: CA
Country:
Zip Code: 92553
Phone:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Affil Type Desc: Document Preparer
Entity Name: Beth Freymiller
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Parent Corporation
Entity Name: United Natural Foods, INC
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title:
Address: 4065 County Circle Drive, Room 104
City: Riverside
State: CA
Country:
Zip Code: 92503
Phone: (951) 358-5055

Coordinates

Env Int Type Code: APSA
Program ID: 10484986
Latitude: 33.912160
Longitude: -117.276270
Coord Name:
Ref Point Type Desc: Center of a facility or station.

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
3	4 of 4	SE	0.08 / 441.99	1,553.45 / 1	UNITED NATURAL FOODS INC 22150 GOLDENCREST DR MORENO VALLEY CA 92553-9117	RCRA NON GEN

EPA Handler ID: CAL000342605
Gen Status Universe: No Report
Contact Name: JAVIER OLIVER/MAINTENANCE MANAGER
Contact Address: 22150 GOLDENCREST DR , , MORENO VALLEY , CA, 92553 ,
Contact Phone No and Ext: 909-349-7416
Contact Email: JOLIVER@UNFI.COM
Contact Country:
County Name: RIVERSIDE
EPA Region: 09
Land Type:
Receive Date: 20090427
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20090427
Handler Name:	UNITED NATURAL FOODS INC
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	313 IRON HORSE WAY
Name:	UNITED NATURAL FOODS INC	**Street 2:**	
Date Became Current:		**City:**	PROVIDENCE
Date Ended Current:		**State:**	RI
Phone:	401-528-8634	**Country:**	
Source Type:	Implementer	**Zip Code:**	02908-5637

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	22150 GOLDENCREST DR
Name:	JAVIER OLIVER/MAINTENANCE MANAGER	**Street 2:**	
Date Became Current:		**City:**	MORENO VALLEY
Date Ended Current:		**State:**	CA
Phone:	909-349-7416	**Country:**	
Source Type:	Implementer	**Zip Code:**	92553

4	*1 of 2*	*WNW*	*0.09 / 497.39*	*1,543.72 / -9*	***Tractorland Equipment Company 21921 Alessandro Blvd Moreno Valley CA 92553***	***DELISTED COUNTY***

Original Source Facility ID:	
Original Source Name:	Riverside County Disclosure Facility List
Record Date:	10-JUN-2015

4	*2 of 2*	*WNW*	*0.09 / 497.39*	*1,543.72 / -9*	***C5 EQUIPMENT RENTALS LLC 21921 ALESSANDRO BLVD MORENO VALLEY CA 92553***	***RCRA NON GEN***

EPA Handler ID:	CAL000413793
Gen Status Universe:	No Report
Contact Name:	BRIAN NEWMAN
Contact Address:	21921 ALESSANDRO BLVD , , MORENO VALLEY , CA, 92553 ,
Contact Phone No and Ext:	909-238-9316
Contact Email:	BRIAN@C5RENTALS.COM
Contact Country:	
County Name:	RIVERSIDE
EPA Region:	09
Land Type:	
Receive Date:	20160121
Location Latitude:	33.916733

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Location Longitude: -117.280422

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20160121
Handler Name:	C5 EQUIPMENT RENTALS LLC
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	**Street No:**	
Type:	Other	**Street 1:**	21921 ALESSANDRO BLVD
Name:	BRIAN NEWMAN	**Street 2:**	
Date Became Current:		**City:**	MORENO VALLEY
Date Ended Current:		**State:**	CA
Phone:	909-238-9316	**Country:**	
Source Type:	Implementer	**Zip Code:**	92553

Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	21921 ALESSANDRO BLVD
Name:	C5 EQUIPMENT RENTALS LLC	**Street 2:**	
Date Became Current:		**City:**	MORENO VALLEY
Date Ended Current:		**State:**	CA
Phone:	909-238-9316	**Country:**	
Source Type:	Implementer	**Zip Code:**	92553

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	1 of 9	NE	0.10 / 519.67	1,560.39 / 8	Supreme Truck Bodies Of California 22135 Alessandro Blvd Moreno Valley CA 92553	HZH RIVERSIDE
5	2 of 9	NE	0.10 / 519.67	1,560.39 / 8	Supreme Truck Bodies Of California 22135 Alessandro Blvd	HWG RIVERSIDE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Moreno Valley CA 92553	

5	3 of 9	NE	0.10 / 519.67	1,560.39 / 8	ROHR IND INC 22135 ALLESSANDRO BL EDGEMONT CA 92102	EMISSIONS

1987 Criteria Data

Facility ID:	23967	**CERR Code:**	
Facility SIC Code:	3728	**TOGT:**	1
CO:	33	**ROGT:**	1
Air Basin:	SC	**COT:**	
District:	SC	**NOXT:**	8
COID:	RIV	**SOXT:**	
DISN:	SOUTH COAST AQMD	**PMT:**	1
CHAPIS:		**PM10T:**	.9

1987 Toxic Data

Facility ID:	23967	**COID:**	RIV
Facility SIC Code:	3728	**DISN:**	SOUTH COAST AQMD
CO:	33	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

5	4 of 9	NE	0.10 / 519.67	1,560.39 / 8	ROHR IND INC 22135 ALLESSANDRO BL MORENO VALLEY CA 92388	EMISSIONS

1990 Criteria Data

Facility ID:	23967	**CERR Code:**	
Facility SIC Code:	3728	**TOGT:**	2.6
CO:	33	**ROGT:**	.6
Air Basin:	SC	**COT:**	
District:	SC	**NOXT:**	0
COID:	RIV	**SOXT:**	
DISN:	SOUTH COAST AQMD	**PMT:**	0
CHAPIS:		**PM10T:**	0

1990 Toxic Data

Facility ID:	23967	**COID:**	RIV
Facility SIC Code:	3728	**DISN:**	SOUTH COAST AQMD
CO:	33	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	5 of 9	NE	0.10 / 519.67	1,560.39 / 8	ROHR IND INC 22135 ALESSANDRO BL MORENO VALLEY CA 92388	EMISSIONS

1993 Criteria Data

Facility ID:	23967	***CERR Code:***	
Facility SIC Code:	3728	***TOGT:***	5
CO:	33	***ROGT:***	3.42986
Air Basin:	SC	***COT:***	0
District:	SC	***NOXT:***	.3
COID:	RIV	***SOXT:***	0
DISN:	SOUTH COAST AQMD	***PMT:***	0
CHAPIS:		***PM10T:***	0

1993 Toxic Data

Facility ID:	23967	***COID:***	RIV
Facility SIC Code:	3728	***DISN:***	SOUTH COAST AQMD
CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1995 Criteria Data

Facility ID:	23967	***CERR Code:***	
Facility SIC Code:	3728	***TOGT:***	5
CO:	33	***ROGT:***	3.42986
Air Basin:	SC	***COT:***	0
District:	SC	***NOXT:***	.3
COID:	RIV	***SOXT:***	0
DISN:	SOUTH COAST AQMD	***PMT:***	0
CHAPIS:		***PM10T:***	0

1995 Toxic Data

Facility ID:	23967	***COID:***	RIV
Facility SIC Code:	3728	***DISN:***	SOUTH COAST AQMD
CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1996 Toxic Data

Facility ID:	23967	***COID:***	RIV
Facility SIC Code:	3728	***DISN:***	SOUTH COAST AQMD
CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

1997 Toxic Data

Facility ID: 23967
Facility SIC Code: 3728
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1998 Toxic Data

Facility ID: 23967
Facility SIC Code: 3728
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

1999 Toxic Data

Facility ID: 23967
Facility SIC Code: 3728
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2000 Toxic Data

Facility ID: 23967
Facility SIC Code: 3728
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2001 Toxic Data

Facility ID: 23967
Facility SIC Code: 3728
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

5	6 of 9	NE	0.10 / 519.67	1,560.39 / 8	SUPREME TRUCK BODIES OF CALIFORNIA	EMISSIONS

22135 ALESSANDRO BLVD
MORENO VALLEY CA 92553

2002 Criteria Data

Facility ID:	110891	***CERR Code:***	
Facility SIC Code:	3713	***TOGT:***	1.663853
CO:	33	***ROGT:***	1.25453364
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	RIV	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	.0154
CHAPIS:		***PM10T:***	.014784

2002 Toxic Data

Facility ID:	110891	***COID:***	RIV
Facility SIC Code:	3713	***DISN:***	SOUTH COAST AQMD
CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2003 Criteria Data

Facility ID:	110891	***CERR Code:***	
Facility SIC Code:	3713	***TOGT:***	1.663853
CO:	33	***ROGT:***	1.25
Air Basin:	SC	***COT:***	
District:	SC	***NOXT:***	
COID:	RIV	***SOXT:***	
DISN:	SOUTH COAST AQMD	***PMT:***	.0154
CHAPIS:		***PM10T:***	.01

2003 Toxic Data

Facility ID:	110891	***COID:***	RIV
Facility SIC Code:	3713	***DISN:***	SOUTH COAST AQMD
CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2004 Criteria Data

Facility ID:	110891	***CERR Code:***	
Facility SIC Code:	3713	***TOGT:***	.130855
CO:	33	***ROGT:***	.128957691
Air Basin:	SC	***COT:***	.00279
District:	SC	***NOXT:***	.0104
COID:	RIV	***SOXT:***	.000065
DISN:	SOUTH COAST AQMD	***PMT:***	.100595
CHAPIS:		***PM10T:***	.096595

2004 Toxic Data

Facility ID: 110891
Facility SIC Code: 3713
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2009 Criteria Data

Facility ID: 110891
Facility SIC Code: 3713
CO: 33
Air Basin: SC
District: SC
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: .4451244049355803037694042010650040286136
ROGT: .439054
COT: .00258
NOXT: .00959
SOXT: .0000612
PMT: .000553
PM10T: .000553

2009 Toxic Data

Facility ID: 110891
Facility SIC Code: 3713
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2016 Criteria Data

Facility ID: 110891
Facility SIC Code: 3711
CO: 33
Air Basin: SC
District: SC
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR CODE:
TOGT: 2.3263327823674399897352647463044401369 2
ROGT: 2.274868
COT: .0091
NOXT: .02
SOXT: .000156
PMT: .00195
PM10T: .00195

2016 Toxic Data

Facility ID: 110891
Facility SIC Code: 3711
CERR CODE:
COID: RIV
CO: 33
DISN: SOUTH COAST AQMD
CHAPIS:
TS:
HRA:
CH Index:
AH Index:
Air Basin: SC
District: SC

2019 Criteria Data

CO: 33
Air Basin: SC
Facility ID: 110891
CHAPIS:
CERR Code:
ROGT: 1.362431135

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

District:	SC	**COT:**	.0091
Facility SIC Code:	3713	**NOXT:**	.0338
CO ID:	RIV	**SOXT:**	.000156
DISN:	SOUTH COAST AQMD		
PM10T:	.6193431		
TOGT:	1.4080331894563168286243699618902013289		
PMT:	.64508		

2019 Toxic Data

CO:	33	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
Faccility ID:	110891	**TS:**	
District:	SC	**Health Risk Asmt:**	
Facility SIC Code:	3713	**NonCncrChrnicHazInd :**	
COID:	RIV	**NonCncrActeHazInd:**	
DISN:	SOUTH COAST AQMD		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	7 of 9	NE	0.10 / 519.67	1,560.39 / 8	**SUPREME TRUCK BODIES OF CALIF30NIA** **22135 ALESSANDRO BLVD** **M30ENO VALLEY CA 92553**	EMISSIONS

2015 Criteria Data

Facility ID:	110891	**CERR Code:**	
Facility SIC Code:	7535	**TOGT:**	2.171137970748327489900523608388776928 1
CO:	33	**ROGT:**	2.14357823
Air Basin:	SC	**COT:**	.00750865
District:	SC	**NOXT:**	.0278893
COID:	RIV	**SOXT:**	.00012872
DISN:	SOUTH COAST AQMD	**PMT:**	.001609
CHAPIS:		**PM10T:**	.001609

2015 Toxic Data

Facility ID:	110891	**COID:**	RIV
Facility SIC Code:	7535	**DISN:**	SOUTH COAST AQMD
CO:	33	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
5	8 of 9	NE	0.10 / 519.67	1,560.39 / 8	**Supreme Truck Bodies Of California** **22135 ALESSANDRO BLVD** **MORENO VALLEY CA 92553**	CERS HAZ

Site ID:	158382
Latitude:	33.915890
Longitude:	-117.275460
County:	

Regulated Programs

EI ID:	10320424	**EI Description:**	Hazardous Waste Generator

EI ID: 10320424 ***EI Description:*** Chemical Storage Facilities

EI ID: 92553SPRMT22135 ***EI Description:*** Toxic Release Inventory

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to properly handle, manage, label, and recycle used oil and fuel filters.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Notes:

Returned to compliance on 09/22/2014.

Violation Description:

Failure to properly label the following categories of universal waste as:
1) Each batteries or the container in which the batteries are contained as "Universal Waste-Battery(ies)".
2) Each mercury-containing equipment or the container in which the mercury-containing equipment is contained as "Universal Waste -Mercury-Containing Equipment".
3) Each Florescent lamp or the container or package in which the lamps are contained as "Universal Waste-Lamp(s)".
4) Each electronic devices or the container or pallet in or on which the electronic devices are contained as "Universal Waste-Electronic Device(s)".
5) Each CRTs or the container or pallet in or on which the CRTs are contained as "Universal Waste-CRT(s)".
6) A container of CRT glass shall be labeled or marked clearly with the following phrase: "Universal Waste-CRT glass".
7) In lieu of labeling individual electronic devices, CRTs, and/or containers of CRT glass pursuant to subsections d) through f) of this section, a universal waste handler may combine, package, and accumulate those universal wastes in appropriate containers or within a designated area demarcated by boundaries that are clearly labeled with the applicable portion(s) of the following phrase: "Universal Waste-Electronic Device(s)/Universal Waste - CRT (s)/Universal Waste-CRT Glass".

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.

Violations

Violation Date: 04/06/2018 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 04/06/2018.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 02/25/2021 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Notes:

Returned to compliance on 03/19/2021.

Violation Description:

Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to electronically update business plan within 30 days of any one of the following events:
A 100 percent or more increase in the quantity of a previously disclosed material.
Any handling of a previously undisclosed hazardous materials at or above reportable quantities.
A change of business address, business ownership, or business name.

Violations

Violation Date: 04/06/2018 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 04/16/2018.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Notes:

Returned to compliance on 09/22/2014. [LOCAL ORDINANCE VIOLATION 104A] NFPA 704 sign(s) have been posted appropriately.

Violation Description:

Business Plan Program - Administration/Documentation - General

Violations

Violation Date: 02/25/2021 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Notes:

Returned to compliance on 03/19/2021. OBSERVATION: Observed many different types of training records; however, mo hazardous materials training records were observed/provided during inspection. CORRECTIVE ACTION: Owner/operator shall provide initial training to all employees before handling of hazardous material and an annual fresher training for all employees. Documentation shall be retained and be made available for inspection for a minimum period of 3 years from the date of the training.

Violation Description:

Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 23 66273.2(a) - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.2(a)
Violation Notes:

Returned to compliance on 09/22/2014.

Violation Description:

Failure to properly manage small sealed lead batteries destined for reclamation or recycling.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.20 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.20
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to prepare a hazardous waste manifest for the transport of a hazardous waste for off-site transfer, treatment, storage, or disposal.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 23 66273.5 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.5
Violation Notes:

Returned to compliance on 09/22/2014.

Violation Description:

Failure to properly manage mercury containing lamp bulbs which are destined for reclamation or recycling from the date the bulbs were first discarded or broken.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Notes:

Returned to compliance on 09/25/2014.

Violation Description:

Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 10/02/2014.

Violation Description:

Failure to complete and electronically submit a site map with all required content.

Violations

Violation Date: 09/09/2014 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 23 66273.2(b)(2) - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.2(b)(2)
Violation Notes:

Returned to compliance on 09/22/2014.

Violation Description:

Failure to properly manage Mercury and Rechargeable batteries as a universal waste.

Enforcements

Enf Action Date: 09/09/2014 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Riverside County Department of Env Health
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Enf Action Date: 09/09/2014 ***Enf Action Program:*** HW
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Riverside County Department of Env Health
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 09/09/2014
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 09/09/2014
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency

Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 04/05/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 04/06/2018
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 02/25/2021
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 02/25/2021
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Facility is a truck manufacturer that handles various manufacturing products including: glues, caulking, acetone, welding gases, diesel fuel, nitrogen, paints, propane, and more. Facility manufactures long distance hauler storage portion of the trucks and mounts them to vehicles.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 04/05/2018
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 09/11/2014
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date:	04/06/2018
Violations Found:	Yes
Eval General Type:	Other/Unknown
Eval Type:	Other, not routine, done by local agency
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval Notes:	

Affiliations

Affil Type Desc:	Parent Company
Entity Name:	WABASH NATIONAL CORP
Entity Title:	
Address:	22135 ALESSANDRO BLVD.
City:	MORENO VALLEY
State:	CA
Country:	
Zip Code:	92553
Phone:	

Affil Type Desc:	Identification Signer
Entity Name:	Charlie Trujillo
Entity Title:	Safety Manager
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	

Affil Type Desc:	Property Owner
Entity Name:	Supreme Corp
Entity Title:	
Address:	22135 Alessandro Blvd
City:	Moreno Valley
State:	CA
Country:	United States
Zip Code:	92553
Phone:	(951) 656-6101

Affil Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	
Address:	22135 Alessandro Blvd
City:	Moreno Valley
State:	CA
Country:	
Zip Code:	92553
Phone:	

Affil Type Desc:	Company Official
Entity Name:	Jaime Ulloa
Entity Title:	Regional Manufacturing Director
Address:	22135 ALESSANDRO BLVD.
City:	MORENO VALLEY
State:	CA
Country:	
Zip Code:	92553
Phone:	

Affil Type Desc:	Legal Owner
Entity Name:	Supreme Truck Bodies Of CA
Entity Title:	
Address:	22135 Alessandro Blvd
City:	Moreno Valley
State:	CA

Country:	United States
Zip Code:	92553
Phone:	(951) 656-6101
Affil Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health
Entity Title:	
Address:	4065 County Circle Drive, Room 104
City:	Riverside
State:	CA
Country:	
Zip Code:	92503
Phone:	(951) 358-5055
Affil Type Desc:	Operator
Entity Name:	Supreme Truck
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	(951) 656-6101
Affil Type Desc:	Public Contact
Entity Name:	Charlie Trujillo
Entity Title:	
Address:	22135 ALESSANDRO BLVD.
City:	MORENO VALLEY
State:	CA
Country:	
Zip Code:	92553
Phone:	9513631110
Affil Type Desc:	Environmental Contact
Entity Name:	Charlie Trujillo
Entity Title:	
Address:	22135 Alessandro Blvd
City:	Moreno Valley
State:	CA
Country:	
Zip Code:	92553
Phone:	
Affil Type Desc:	Document Preparer
Entity Name:	Charlie Trujillo
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	
Affil Type Desc:	Parent Corporation
Entity Name:	Supreme Truck Bodies Of California
Entity Title:	
Address:	
City:	
State:	
Country:	
Zip Code:	
Phone:	
Affil Type Desc:	Technical Contact
Entity Name:	Charlie Trujillo
Entity Title:	
Address:	22135 ALESSANDRO BLVD.
City:	MORENO VALLEY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

State: CA
Country:
Zip Code: 92553
Phone: 9513631110

Coordinates

Env Int Type Code: HWG
Program ID: 10320424
Latitude: 33.915880
Longitude: -117.275420
Coord Name:
Ref Point Type Desc: Center of a facility or station.

5	9 of 9	NE	0.10 / 519.67	1,560.39 / 8	SUPREME TRUCK BODIES OF CALIFORNIA 22135 ALESSANDRO BLVD MORENO VALLEY CA 92553-0000	RCRA LQG

EPA Handler ID: CAD982030355
Gen Status Universe: Large Quantity Generator
Contact Name: CHARLIE TRUJILLO
Contact Address: 22135 , ALESSANDRO BLVD , , MORENO VALLEY , CA, 92553-0000 , US
Contact Phone No and Ext: 951-656-6101 x212
Contact Email: CHARLIE.TRUJILLO@SUPREMECORP.COM
Contact Country: US
County Name: RIVERSIDE
EPA Region: 09
Land Type: Private
Receive Date: 20200407
Location Latitude: 33.91677
Location Longitude: -117.278957

Violation/Evaluation Summary

Note: NO VIOLATIONS: All of the compliance records associated with this facility (EPA ID) indicate NO VIOLATIONS; Compliance Monitoring and Enforcement table dated Nov, 2021.

Evaluation Details

Evaluation Start Date: 19921221
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State Contractor/Grantee

Evaluation Start Date: 19921028
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State Contractor/Grantee

Evaluation Start Date: 19910710
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State Contractor/Grantee

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No

Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19900413
Handler Name: ROHR INDUSTRIES INC
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 19920229
Handler Name: ROHR INCORPORATED
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 3
Receive Date: 19940329
Handler Name: ROHR INCORPORATED
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 19960906
Handler Name: SUPREME TRUCK BODIES OF CALIFORNIA
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20060425
Handler Name: SUPREME TRUCK BODIES
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 4
Receive Date: 20060425
Handler Name: SUPREME TRUCK BODIES
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator

Source Type: Annual/Biennial Report

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20181026
Handler Name: SUPREME TRUCK BODIES OF CALIFORNIA
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: 223
Waste Code Description: Unspecified oil-containing waste

Hazardous Waste Code: 331
Waste Code Description: Off-specification, aged, or surplus organics

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F005
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Handler Details

Sequence No: 2
Receive Date: 20200407
Handler Name: SUPREME TRUCK BODIES OF CALIFORNIA
Federal Waste Generator Code: 1
Generator Code Description: Large Quantity Generator
Source Type: Annual/Biennial Report update with Notification

Waste Code Details

Hazardous Waste Code: 223

Waste Code Description: Unspecified oil-containing waste

Hazardous Waste Code: 331
Waste Code Description: Off-specification, aged, or surplus organics

Hazardous Waste Code: 352
Waste Code Description: Other organic solids

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D035
Waste Code Description: METHYL ETHYL KETONE

Hazardous Waste Code: F003
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Code: F005
Waste Code Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	PO BOX 237
Name:	SUPREME CORPORATION	***Street 2:***	
Date Became Current:	19960304	***City:***	GOSHEN
Date Ended Current:		***State:***	IN
Phone:		***Country:***	US
Source Type:	Annual/Biennial Report	***Zip Code:***	46528

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	
Name:	SUPREME CORPORATION	***Street 2:***	
Date Became Current:	19960304	***City:***	
Date Ended Current:		***State:***	
Phone:		***Country:***	US
Source Type:	Annual/Biennial Report	***Zip Code:***	

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Private	***Street 1:***	NOT REQUIRED
Name:	NOT REQUIRED	***Street 2:***	
Date Became Current:		***City:***	NOT REQUIRED
Date Ended Current:		***State:***	ME
Phone:	415-555-1212	***Country:***	
Source Type:	Notification	***Zip Code:***	99999

Owner/Operator Ind:	Current Owner	***Street No:***	22135
Type:	Private	***Street 1:***	ALESSANDRO BLVD
Name:	WABASH NATIONAL	***Street 2:***	
Date Became Current:	20170815	***City:***	MORENO VALLEY
Date Ended Current:		***State:***	CA
Phone:	951-656-6101	***Country:***	US
Source Type:	Annual/Biennial Report update with Notification	***Zip Code:***	92553-0000

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Name:	SUPREME CORPORATION	**Street 2:**	
Date Became Current:	19960304	**City:**	
Date Ended Current:		**State:**	
Phone:		**Country:**	US
Source Type:	Implementer	**Zip Code:**	
Owner/Operator Ind:	Current Operator	**Street No:**	22135
Type:	Private	**Street 1:**	ALESSANDRO BLVD
Name:	SUPREME	**Street 2:**	
Date Became Current:	19960615	**City:**	MORENO VALLEY
Date Ended Current:		**State:**	CA
Phone:	951-656-6101	**Country:**	US
Source Type:	Annual/Biennial Report update with Notification	**Zip Code:**	92553-0000
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Private	**Street 1:**	22135 ALESSANDRO BLVD
Name:	SUPREME TRUCK BODIES OF CALIFORNIA	**Street 2:**	
Date Became Current:		**City:**	MORENO VALLEY
Date Ended Current:		**State:**	CA
Phone:	909-656-6101	**Country:**	
Source Type:	Notification	**Zip Code:**	92553
Owner/Operator Ind:	Current Owner	**Street No:**	
Type:	Other	**Street 1:**	PO BOX 237
Name:	SUPREME CORPORATION	**Street 2:**	
Date Became Current:	19960304	**City:**	GOSHEN
Date Ended Current:		**State:**	IN
Phone:		**Country:**	US
Source Type:	Implementer	**Zip Code:**	46528

Historical Handler Details

Receive Dt:	20181026
Generator Code Description:	Large Quantity Generator
Handler Name:	SUPREME TRUCK BODIES OF CALIFORNIA
Receive Dt:	20060425
Generator Code Description:	Large Quantity Generator
Handler Name:	SUPREME TRUCK BODIES
Receive Dt:	20060425
Generator Code Description:	Small Quantity Generator
Handler Name:	SUPREME TRUCK BODIES
Receive Dt:	19960906
Generator Code Description:	Small Quantity Generator
Handler Name:	SUPREME TRUCK BODIES OF CALIFORNIA
Receive Dt:	19940329
Generator Code Description:	Large Quantity Generator
Handler Name:	ROHR INCORPORATED
Receive Dt:	19920229
Generator Code Description:	Large Quantity Generator
Handler Name:	ROHR INCORPORATED
Receive Dt:	19900413
Generator Code Description:	Large Quantity Generator
Handler Name:	ROHR INDUSTRIES INC

6	*1 of 8*	*W*	*0.12 / 659.74*	*1,546.09 / -6*	***Robertson's Ready Mix 14250 Old 215 Frontage Moreno Valley CA 92552***	***HZH RIVERSIDE***

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	2 of 8	W	0.12 / 659.74	1,546.09 / -6	Robertson's Ready Mix 14250 Old 215 Frontage Moreno Valley CA 92552	DELISTED COUNTY

Original Source Facility ID:
Original Source Name: Riverside County Underground Storage Tanks List
Record Date: 15-FEB-2018

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	3 of 8	W	0.12 / 659.74	1,546.09 / -6	Robertson's Ready Mix 14250 Old 215 Frontage Rd Moreno Valley CA 92552	UST

Facility ID: FA0040008
CERS ID: 10448332
County: Riverside
Latitude: 33.91123
Longitude: -117.27928
Permitting Agency: Riverside County Department of Environmental Health
Note: Information related to facilities can be searched on Geo Tracker Website: https://geotracker.waterboards.ca.gov/search
Site Facility Type: PERMITTED UNDERGROUND STORAGE TANK (UST)

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	4 of 8	W	0.12 / 659.74	1,546.09 / -6	Robertson's Ready Mix 14250 OLD 215 FRONTAGE RD MORENO VALLEY CA 92552	CERS TANK

Site ID: 148611
Latitude: 33.911230
Longitude: -117.279280

Regulated Programs

EI ID: 10448332
EI Description: Hazardous Waste Generator

EI ID: 10448332
EI Description: Chemical Storage Facilities

EI ID: 10448332
EI Description: Underground Storage Tank

Violations

Violation Date: 07/25/2016
Violation Source: CERS
Violation Program: UST
Violation Division: Riverside County Department of Env Health
Citation: 23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b)
Violation Notes:

Returned to compliance on 07/25/2016. L7: D UDC HYRDO FUEL ALARM

Violation Description:

Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions.

Violations

Violation Date: 07/29/2013
Violation Source: CERS
Violation Program: HMRRP
Violation Division: Riverside County Department of Env Health
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Notes:

Returned to compliance on 09/30/2013. [LOCAL ORDINANCE VIOLATION 104A] NFPA 704 sign(s) have been posted appropriately.

Violation Description:

Business Plan Program - Administration/Documentation - General

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.7 25293 - California Health and Safety Code, Chapter 6.7, Section(s) 25293
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Observed UST records were lacking sufficient detail to determine if UST systems are in compliance. No paperwork was observed to determine how the sumps were cleaned out post alarm or how the sensor alarms were corrected. CORRECTIVE ACTION: Owner/operator shall ensure UST records are completed so as to be legible and in sufficient detail to verify compliance. Owner/operator shall ensure that corrective action detailed for all sensor alarms.

Violation Description:

Failure to maintain UST records in sufficient detail to enable the UPA to determine whether the UST systems are in compliance.

Violations

Violation Date: 07/25/2016 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Notes:

Returned to compliance on 07/25/2016. L7: D UDC HYRDO FUEL ALARM

Violation Description:

Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Observed facility had alarms for L1, L2, L4, L6, L7 within the past year. Repair records indicating how the alarms were corrected were not available onsite. CORRECTIVE ACTION: Owner/operator shall provide all maintenance, monitoring, repair and/or upgrade records. Maintain copies on site and available for review.

Violation Description:

Failure to maintain records of repairs and upgrades on site, or off site if approved by the UPA, for the life of the UST.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: A previously undisclosed material was brought on site more than 30 days prior to the inspection. Inspector observed approximately 2, 1400 gallon containers of Eclipse floor 200, approximately 1400 gallons of Zyla 625, and approximately 1400 gallons of Grace Accelerator. CORRECTIVE ACTION: Owner/operator shall update and submit a new hazardous material inventory page in the statewide information management system at https://cers.calepa.ca.gov for each chemical stored on site at or above threshold quantities.

Violation Description:

Failure to electronically update business plan within 30 days of any one of the following events:

A 100 percent or more increase in the quantity of a previously disclosed material.
Any handling of a previously undisclosed hazardous materials at or above reportable quantities.
A change of business address, business ownership, or business name.
A substantial change in the handler's operations that requires modification to any portion of the business plan.

Violations

Violation Date: 07/25/2016 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Notes:

Returned to compliance on 07/25/2016. Owner/operator failed to store all hazardous materials in a manner to minimize the possibility of a fire, explosion, or release. CORRECTIVE ACTION: All hazardous materials shall be stored to prevent unauthorized fire, explosion, or release.

Violation Description:

Business Plan Program - Operations/Maintenance - General

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Observed UST Monitoring Plan(s) for the Diesel Tank to be inaccurate and/or missing information. The piping secondary containment is not included, the 208 leak sensor model number is not included, the UST system does trigger an automatic pump shutdown but it is marked as no in CERS, and the UDC monitoring does not stop the flow of product at the dispenser but is marked as yes in CERS. UST Monitoring Plan is not approved as submitted. CORRECTIVE ACTION: Owner/operator shall make the following corrections to the UST Monitoring Plan(s) and submit in CERS. In the "Pipe Monitoring is Performed Using the Following Methods" section change the pipe secondary containment to dry, change the Leak Alarm Triggers Automatic Pump Shutdown to yes, and Failure/Disconnect Triggers Pump Shutdown to yes, and the Leak Sensor Model number should include 208. In the "Under Dispenser Containment (UDC) Monitoring" section, change the UDC Monitoring Stops Flow of Product at [Truncated]

Violation Description:

Failure to have an approved UST Monitoring Plan.

Violations

Violation Date: 07/24/2017 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.7 25290.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(e)
Violation Notes:

Returned to compliance on 07/24/2017.

Violation Description:

Failure to maintain the interstitial space such that a breach in the primary or secondary containment is detected before the liquid or vapor phase of the hazardous substance stored in the UST tank is released into the environment, i.e., vapor, pressure, hydrostatic (VPH) monitoring.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: No manifests available during inspection. CORRECTIVE ACTION: Owner/operator shall obtain all manifests for hazardous waste shipments which occurred in the past 3 years. Manifests shall be made available for inspection. Submit most

recent waste pick up manifests to kestrada@rivco.org for review.

Violation Description:

Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Observed an alarm occurance on 9/21/18, 9/15/18, 9/14/18, 3/21/19, 2/2/19, 1/17/19. Records of alarms and/or records of appropriate follow-up action indicating how alarm conditions were cleared were not available for review. CORRECTIVE ACTION: Owner/operator shall ensure records of appropriate follow-up action for alarm conditions are documented and maintained on site readily available for review.

Violation Description:

Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: Un-Specified
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Observed hydraulic oil and motor oil tanks with faded product labels. There were also no labels on the Davis Liquid Color (black, red, yellow) containers. CORRECTIVE ACTION: Owner/operator shall ensure all hazardous materials containers are labeled with a product name. Submit photos to this department.

Violation Description:

Business Plan Program - Operations/Maintenance - General Local Ordinance

Violations

Violation Date: 07/23/2018 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Notes:

Returned to compliance on 09/12/2018.

Violation Description:

Failure to maintain monitoring and maintenance records and/or maintain records of appropriate follow-up actions.

Violations

Violation Date: 07/24/2017 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Notes:

Returned to compliance on 07/24/2017.

Violation Description:

Failure of the leak detection equipment to have an audible and visual alarm as required.

Violations

Violation Date: 07/25/2016 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Notes:

Returned to compliance on 07/25/2016.

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Owner/operator failed to comply with all the required operating permit conditions. The owner/operator failed to have on site and available for review required monitoring and maintenance records as the operating permit requires . Monitoring plan contained incorrect information and the repair records were not included. CORRECTIVE ACTION: Owner/operator shall correct monitoring plan and have repair records available as required as part of the the operating permit condition.

Violation Description:

Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: Un-Specified
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Safety data sheets were not available for Eclipse Floor 200, Zyla 625, Grace Accelerator, and Davis Liquid Color (black, red, yellow). There were also no SDS observed for all other chemicals. Inspector only observed the MSDS. CORRECTIVE ACTION: Owner/operator shall ensure SDS are available on site for all chemicals at reportable quantities. Please update all MSDS to the SDS template.

Violation Description:

Business Plan Program - Administration/Documentation - General Local Ordinance

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: Un-Specified
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Required NFPA-704 signs were not posted on the hydraulic oil and motor oil tanks. There was also no NFPA-704 sign located at the entrance to the facility. CORRECTIVE ACTION: Owner/operator shall research chemical safety data sheets and post proper NFPA-704 signs. Signs shall be posted on the hydraulic oil and motor oil tanks as well as at the entrance to the facility . Submit photos to this department.

Violation Description:

Business Plan Program - Operations/Maintenance - General Local Ordinance

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Observed that Designated Operator inspections are being improperly performed. The DO reports from 2/7/19 to 3/12/19, 4/4/19 to 5/9/19, 5/9/19 to 6/19/19, and 11/19/19 to 12/21/19 are not completed within 30 days . The follow-up actions were not filled out properly on Section five of the Owner/Operator description of follow-up actions. CORRECTIVE ACTION: Owner/operator shall ensure that the Designated Operator is properly conducting inspections, noting observations, reviewing paperwork and alarm history reports, attaching required documentation and any other DO required functions. Owner/operator shall complete DO reports within 30 days.

Violation Description:

For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements:
Be performed by an ICC certified DO.
Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy.
Inspect for the presence of liquid/debris in spill containers.
Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly.
Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit.
Check that all testing and maintenance has been completed and documented.
Verify that all facility employees have been trained in accordance with 23 CCR 2715(c).
For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: Un-Specified
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Observed spent absorbent in the fuel island bermed area and surrounding the fuel dispenser. Also observed oil and debris on the top of hydraulic oil and motor oil tanks. CORRECTIVE ACTION: Owner/operator shall store all hazardous materials in a manner which will prevent unauthorized fire, explosion, or release. Owner/operator shall clean out the spent absorbent in the fuel island area and dispose of as hazardous waste. Also remove oil/debris from the top of hydraulic oil and motor oil tanks and manage collected material as hazardous waste.

Violation Description:

Business Plan Program - Operations/Maintenance - General Local Ordinance

Violations

Violation Date: 07/25/2016 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33
Violation Notes:

Returned to compliance on 07/25/2016.

Violation Description:

Failure to test and maintain as necessary all facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment to assure its proper operation in time of emergency.

Violations

Violation Date: 07/23/2018 ***Violation Source:*** CERS

Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Notes:

Returned to compliance on 09/12/2018.

Violation Description:

Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements:

Be performed by an ICC certified DO.

Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers.

Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented.

Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.7 25290.1(c)(3),25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Notes:

Returned to compliance on 07/26/2019. OBSERVATION: Observed a small quantity of liquid in the fill sump. CORRECTIVE ACTION: Owner/operator shall investigate the cause of the water intrusion into the fill sump and make the necessary repairs to eliminate the intrusion of water into the containment sump. UST systems built after 7/1/03 shall prevent water intrusion into the secondary containment system. The Technician removed all liquid from the time of inspection.

Violation Description:

Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: HMRRP ***Violation Division:*** Riverside County Department of Env Health
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: The most recent business plan submission in the statewide information management system (CERS) failed to contain a chemical inventory description page Eclipse Floor 200, Zyla 625, and Grace Accelerator. CORRECTIVE ACTION: Owner/operator shall complete a chemical inventory page for all reportable hazardous materials on site and submit to the statewide information management system at http://cers.calepa.ca.gov. OBSERVATION: The chemical inventory description page submitted for Davis Liquid Color (black, red, yellow) contained incorrect information. The chemical inventory page submitted to CERS states it is a liquid form but a powder form was observed on site. CORRECTIVE ACTION: Owner/operator shall update the chemical inventory page for Davis colorant and submit to the statewide information management system at http://cers.calepa.ca.gov. Missing information may be found by looking at the chemical safety data sheet.

Violation Description:

Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violations

Violation Date: 07/23/2018 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Notes:

Returned to compliance on 09/12/2018.

Violation Description:

Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.

Violations

Violation Date: 07/26/2019 ***Violation Source:*** CERS
Violation Program: HW ***Violation Division:*** Riverside County Department of Env Health
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Notes:

Returned to compliance on 12/13/2019. OBSERVATION: Observed various spills in the fuel dispenser/ motor oil island. Also observed collection buckets under the motor oil hoses filled with liquid. CORRECTIVE ACTION: Owner/operator shall clean out the fuel island area and manage all collected absorbent and oil in accordance with Title 22 hazardous waste regulations. Submit a statement and supporting documentation (photos) explaining how this waste was managed to this department.

Violation Description:

Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

Violations

Violation Date: 07/25/2016 ***Violation Source:*** CERS
Violation Program: UST ***Violation Division:*** Riverside County Department of Env Health
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Notes:

Returned to compliance on 07/25/2016. L7: D UDC HYRDO FUEL ALARM

Violation Description:

Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the UST.

Enforcements

Enf Action Date: 07/29/2013 ***Enf Action Program:*** HMRRP
Enf Action Type: Notice of Violation (Unified Program) ***Enf Action Source:*** CERS
Enf Action Division: Riverside County Department of Env Health
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:

Evaluations

Eval Date: 07/09/2020
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

Annual Monitoring Certification today. Orange Co. Tank Testing on site to conduct testing.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/09/2021
Violations Found: No

Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

The purpose of this visit is to conduct annual monitoring certification test. Orange County Tank Testing service technician # 5246183 UT on site performing the tests including an overfill. Ensure to submit all test results to the CUPA within 30 days.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/26/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Facility generates contaminated absorbent. No manifests were available to review at the time of inspection. Also, no waste containers were available on site at the time of inspection. Per facility operator no vehicle maintenance is conducted on site anymore. NOTE: Obtain a hazardous waste container to collect all the contaminated material around the fuel island.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 12/13/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 07/27/2015
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/25/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Eval Date: 07/28/2014
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/25/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency

Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

CMD; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/23/2018
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/24/2017
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/26/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

UST system is a single diesel VPH tank. Overfill inspection conducted at the time of inspection.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/29/2013
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Robertson Ready Mix 14250 Old 215 Frontage Moreno Valley CA 92552; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/26/2019
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Facility is a cement facility storing various oils, compressed gases, and various cement additives in reportable quantities.; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/29/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection

Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS
Eval Notes:

Robertson Ready Mix 14250 Old 215 Frontage Moreno Valley CA 92552; Note: data in [EVAL Notes] field for some records is truncated from the source.

Eval Date: 07/25/2016
Violations Found: Yes
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Eval Date: 12/13/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 07/29/2013
Violations Found: No
Eval General Type: Compliance Evaluation Inspection
Eval Type: Routine done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS
Eval Notes:

Eval Date: 12/13/2019
Violations Found: No
Eval General Type: Other/Unknown
Eval Type: Other, not routine, done by local agency
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS
Eval Notes:

Affiliations

Affil Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title:
Address: P.O. Box 3600
City: Corona
State: CA
Country:
Zip Code: 92882
Phone:

Affil Type Desc: UST Permit Applicant
Entity Name: Jackie McEvoy
Entity Title: Environmental Services
Address:
City:
State:
Country:

Zip Code:
Phone: (951) 493-6500

Affil Type Desc: UST Property Owner Name
Entity Name: Robertson's Ready Mix
Entity Title:
Address: P.O. Box 3600
City: Corona
State: CA
Country: United States
Zip Code: 92878
Phone: (951) 493-6500

Affil Type Desc: UST Tank Owner
Entity Name: Robertson's Ready Mix
Entity Title:
Address: P.O. Box 3600
City: Corona
State: CA
Country: United States
Zip Code: 92878
Phone: (951) 493-6500

Affil Type Desc: UST Tank Operator
Entity Name: Robertson's Ready Mix
Entity Title:
Address: P.O. Box 3600
City: Corona
State: CA
Country: United States
Zip Code: 92878
Phone: (951) 493-6500

Affil Type Desc: Identification Signer
Entity Name: Jackie McEvoy
Entity Title: Environmental Services
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Operator
Entity Name: Robertson's Ready Mix
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone: (951) 493-6500

Affil Type Desc: Document Preparer
Entity Name: Jackie McEvoy
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: Legal Owner
Entity Name: Robertson's Ready Mix
Entity Title:
Address: P.O. Box 3600
City: Corona
State: CA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Country: United States
Zip Code: 92878
Phone: (951) 493-6500

Affil Type Desc: Parent Corporation
Entity Name: ROBERTSON'S
Entity Title:
Address:
City:
State:
Country:
Zip Code:
Phone:

Affil Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title:
Address: 4065 County Circle Drive, Room 104
City: Riverside
State: CA
Country:
Zip Code: 92503
Phone: (951) 358-5055

Affil Type Desc: Environmental Contact
Entity Name: Jackie McEvoy
Entity Title:
Address: P.O. Box 3600
City: Corona
State: CA
Country:
Zip Code: 92878
Phone:

6	*5 of 8*	*W*	*0.12 / 659.74*	*1,546.09 / -6*	***Robertson's Ready Mix 14250 Old 215 Frontage Moreno Valley CA 92552***	***HWG RIVERSIDE***

6	*6 of 8*	*W*	*0.12 / 659.74*	*1,546.09 / -6*	***Robertson's Ready Mix 14250 Old 215 Frontage Moreno Valley CA 92552***	***UST RIVERSIDE***

No of Tanks: 1

6	*7 of 8*	*W*	*0.12 / 659.74*	*1,546.09 / -6*	***ROBERTSONS READY MIX 14250 OLD 215 FRONTAGE RD MORENO VALLEY CA 92552***	***RCRA NON GEN***

EPA Handler ID: CAL000387800
Gen Status Universe: No Report
Contact Name: JACKIE MCEVOY
Contact Address: PO BOX 3600 , , CORONA , CA, 92878-3600 ,
Contact Phone No and Ext: 951-493-6500
Contact Email: JACKIEM@RRMCA.COM
Contact Country:
County Name: RIVERSIDE
EPA Region: 09
Land Type:
Receive Date: 20130726
Location Latitude: 33.924343
Location Longitude: -117.286618

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20130726
Handler Name:	ROBERTSONS READY MIX
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	PO BOX 3600
Name:	JACKIE MCEVOY	***Street 2:***	
Date Became Current:		***City:***	CORONA
Date Ended Current:		***State:***	CA
Phone:	951-493-6500	***Country:***	
Source Type:	Implementer	***Zip Code:***	92878-3600
Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	PO BOX 3600
Name:	ROBERTSONS READY MIX INC	***Street 2:***	
Date Became Current:		***City:***	CORONA
Date Ended Current:		***State:***	CA
Phone:	909-685-2200	***Country:***	
Source Type:	Implementer	***Zip Code:***	92878-3600

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
6	8 of 8	W	0.12 / 659.74	1,546.09 / -6	PR III CHI FREEWAY BC LLC 14250 OLD 215 FRONTAGE RD 2677 ALESSANDRO BLVD MORENO VALLEY CA 92553-7900	RCRA NON GEN

EPA Handler ID:	CAC003030278
Gen Status Universe:	No Report
Contact Name:	GLEN ALLEN
Contact Address:	2280 UNIVERSITY DRIVE SUITE 101 , , NEWPORT BEACH , CA, 92660 ,
Contact Phone No and Ext:	714-975-7676
Contact Email:	GALLEN@NRES.NET
Contact Country:	
County Name:	RIVERSIDE
EPA Region:	09

Land Type:
Receive Date: 20190820
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20190820
Handler Name: PR III CHI FREEWAY BC LLC
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: GENERATOR IS PR III/CHI FREEWAY BC
Date Became Current:
Date Ended Current:
Phone: 714-975-7676
Source Type: Implementer
Street No:
Street 1: 527 W 7TH STREET
Street 2:
City: LOS ANGELES
State: CA
Country:
Zip Code: 90014

Owner/Operator Ind: Current Operator
Type: Other
Name: GLEN ALLEN
Date Became Current:
Date Ended Current:
Phone: 714-975-7676
Source Type: Implementer
Street No:
Street 1: 2280 UNIVERSITY DRIVE SUITE 101
Street 2:
City: NEWPORT BEACH
State: CA
Country:
Zip Code: 92660

7	*1 of 2*	*NW*	*0.15 / 810.67*	*1,546.46 / -6*	***ALESSANDRO PROPERTIES*** ***14044 OLD 215 FRONTAGE ROAD AND 21839 & 21921 ALESSANDRO BOULEVARD*** ***MORENO VALLEY CA 92553***	***VCP***

Estor/EPA ID: 60002840
Site Code: 401880
Permit Renewal Lead:
Project Manager: IRENA EDWARDS

Nat Priority List:	NO	**Supervisor:**	MARYAM TASNIF-ABBASI
Acres:	19.36 ACRES	**Public Partici Spclst:**	
Special Program:	VOLUNTARY CLEANUP PROGRAM	**Census Tract:**	6065046700
Funding:	SITE PROPONENT	**County:**	RIVERSIDE
Assembly District:	, 61	**Latitude:**	33.9164609866227
Senate District:	, 31	**Longitude:**	-117.280621196295
School District:			

APN: 297-120-002, 297-120-016
Cleanup Status: ACTIVE AS OF 6/13/2019
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
Site Type: VOLUNTARY CLEANUP
Office: CLEANUP CYPRESS
Past Use that Caused Contam: NONE SPECIFIED
Potential Media Affected: NONE SPECIFIED
Potential Contamin of Concern:

NONE SPECIFIED

Site History:

The Site is approximately 20 acres in size and is located in a commercial area 0.12- miles north March Air Force Base (MAFB). It is bordered by Alessandro Boulevard and commercial properties (FSA, My Tran-E Shop, LLC, and Alessandro Self Storage) to the north, Old 215 Frontage Road to the west, a commercial/industrial facility (Robertson's Ready Mix) and undeveloped land to the south, and Day Street to the east, beyond which are commercial warehouses. The nearest residences are 125 feet north of the site. The 1953 aerial photograph indicated that the southern portion of the subject property was used by (MAFB) for unknown purposes. The current uses of the Site include heavy equipment storage, rental, repair, and maintenance operations. The Site is mostly unpaved and contains two metal structures. The eastern portion of the site was used for heavy equipment repair for over twenty years. This use included an equipment wash area with an underground clarifier and leach lines to the west of the repair garage. The western portion of the site was used for storage of heavy equipment. Extensive areas of soil staining approximately 800-square feet (sf) were observed during the 2006 Phase I ESA site reconnaissance in the western portion of the site. A former dry cleaner, demolished in 2016, was suspected in the area fronting on Alessandro Blvd, east of My TRAN-E SHOP, based on the old maps review. In 2018 ROUX conducted soil gas and groundwater investigation in this area. PCE was detected in all but one of the collected soil gas samples. The highest detected PCE in soil gas concentration was identified in RB-C-06 (613,000 ug/m3) at 5 ft bgs. and (477,000 ug/m3) at 19.5 ft bgs at this location. Impacts to the shallow groundwater were also detected. On August 8, 2019, the property owner entered into a voluntary agreement with DTSC to conduct a preliminary endangerment assessment.

The seepage pit and clarifier were discovered at the Site during a test pit investigation in October 2020 (Figure 2). A scope of work to evaluate impacts to soil and groundwater in the vicinity of the seepage pit was submitted to DTSC in January 2021 and the investigation was performed in March 2021. The results of this investigation were presented to the DTSC in the May 17, 2021, Seepage Pit Assessment Report (Terraphase 2021b) and Seepage Pit and Clarifier Closure Work Plan was submitted to DTSC.

Status: ACTIVE
Program Type: VOLUNTARY CLEANUP
CalEnviroScreen Score: 96-100%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60002840

Future Activities

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Report
Due Date: 2022

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan
Due Date: 2022

Completed Activities

Title: Seepage Pit and Clarifier Removal Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60499623
Area Name:
Area Link:
Sub Area:

Sub Area Link:
Document Type: Technical Workplan
Date Completed: 7/15/2021
Comments:

Title: PEA Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60464318
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Workplan
Date Completed: 1/9/2020
Comments:

Title: Current Conditions Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60467320
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 11/19/2019
Comments:

Title: 2020/2021 Annual Cost Estimation Letter
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&enforcement_id=60466858
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 10/22/2020
Comments:

Title: SSI Report - Focused on Former Dry Cleaners
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60481737
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Characterization Report
Date Completed: 6/17/2021
Comments:

Title: Revised Workplan Addendum for Phase II Environmental Site Assessment
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60489787
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Tech Memo
Date Completed: 10/22/2020
Comments:

Title: Site Visit
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&enforcement_id=60465511
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Inspections/Visit (Non LUR)
Date Completed: 7/23/2019
Comments:

Title: Workplan Addnedum
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60481413
Area Name:
Area Link:

Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Tech Memo
Date Completed: 7/29/2020
Comments:

Title: PEA Implementation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60466860
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 4/15/2020
Comments:

Title: Andland Properties, LLC VCA
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&enforcement_id=60461301
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Standard Voluntary Agreement
Date Completed: 8/12/2019
Comments:

Title: Brief summary and scope of work to investigate potential site impacts from the dry well
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60493068
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Workplan
Date Completed: 2/4/2021
Comments:

Title: Seepage Pit Investigation Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60486969
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Workplan
Date Completed: 6/17/2021
Comments:

Title: PEA Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60464324
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Report
Date Completed: 7/14/2020
Comments:

Title: Site Health & Saftey Plan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60474858
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Health & Safety Plan
Date Completed: 2/18/2020
Comments:

Title: Field Work - field work oversight
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60484173
Area Name:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 11/3/2020
Comments:

Title: Revised Supplemental Workplan - Focused on Former Dry Cleaners
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60481735
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Workplan
Date Completed: 9/22/2020
Comments:

7	2 of 2	NW	0.15 / 810.67	1,546.46 / -6	***ALESSANDRO PROPERTIES 14044 OLD 215 FRONTAGE ROAD AND 21839 & 21921 ALESSANDRO BOULEVARD MORENO VALLEY CA 92553***	***ENVIROSTOR***

Estor/EPA ID: 60002840
Site Code: 401880
Nat Priority List: NO
APN: 297-120-002, 297-120-016
Census Tract: 6065046700
Site Type: VOLUNTARY CLEANUP
Address Description: 14044 OLD 215 FRONTAGE ROAD AND 21839 & 21921 ALESSANDRO BOULEVARD
Office: CLEANUP CYPRESS
Special Program: VOLUNTARY CLEANUP PROGRAM
Funding: SITE PROPONENT
Assembly District: , 61
Senate District: , 31
Permit Renewal Lead:
Public Partici Spclst:
Project Manager: IRENA EDWARDS
County: RIVERSIDE
Latitude: 33.9164609866227
Longitude: -117.280621196295
Acres: 19.36 ACRES
Supervisor: MARYAM TASNIF-ABBASI
Cleanup Status: ACTIVE AS OF 6/13/2019
Cleanup Oversight Agencies: DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY
School District:
Past Use that Caused Contam: NONE SPECIFIED
Potential Media Affected: NONE SPECIFIED
Potential Contamin of Concern:

NONE SPECIFIED

Site History:

The Site is approximately 20 acres in size and is located in a commercial area 0.12- miles north March Air Force Base (MAFB). It is bordered by Alessandro Boulevard and commercial properties (FSA, My Tran-E Shop, LLC, and Alessandro Self Storage) to the north, Old 215 Frontage Road to the west, a commercial/industrial facility (Robertson's Ready Mix) and undeveloped land to the south, and Day Street to the east, beyond which are commercial warehouses. The nearest residences are 125 feet north of the site. The 1953 aerial photograph indicated that the southern portion of the subject property was used by (MAFB) for unknown purposes. The current uses of the Site include heavy equipment storage, rental, repair, and maintenance operations. The Site is mostly unpaved and contains two metal structures. The eastern portion of the site was used for heavy equipment repair for over twenty years. This use included an equipment wash area with an underground clarifier and leach lines to the west of the repair garage. The western portion of the site was used for storage of heavy equipment. Extensive areas of soil staining approximately 800-square feet (sf) were observed during the 2006 Phase I ESA site reconnaissance in the western portion of the site. A former dry cleaner, demolished in 2016, was suspected in the area fronting on Alessandro Blvd, east of My TRAN-E SHOP, based on the old maps review. In 2018 ROUX conducted soil gas and groundwater investigation in this area. PCE was detected in all but one of the collected soil gas samples. The highest detected PCE in soil gas concentration was identified in RB-C-06 (613,000 ug/m3) at 5 ft bgs. and (477,000 ug/m3) at 19.5 ft bgs at this location. Impacts to the shallow groundwater were also detected. On August 8, 2019, the property owner entered into a voluntary agreement with DTSC to conduct a preliminary endangerment assessment.

The seepage pit and clarifier were discovered at the Site during a test pit investigation in October 2020 (Figure 2). A scope of work to evaluate impacts to soil and groundwater in the vicinity of the seepage pit was submitted to DTSC in January 2021 and the investigation was performed in March 2021. The results of this investigation were presented to the DTSC in the May 17, 2021, Seepage Pit Assessment Report (Terraphase 2021b) and Seepage Pit and Clarifier Closure Work Plan was submitted to DTSC.

Status: ACTIVE
Program Type: VOLUNTARY CLEANUP
CalEnviroScreen Score: 96-100%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60002840

Future Activities

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Removal Action Workplan
Due Date: 2022

Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Report
Due Date: 2022

Completed Activities

Title: Site Health & Saftey Plan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60474858
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Health & Safety Plan
Date Completed: 2/18/2020
Comments:

Title: Andland Properties, LLC VCA
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&enforcement_id=60461301
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Standard Voluntary Agreement
Date Completed: 8/12/2019
Comments:

Title: PEA Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60464324
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Report
Date Completed: 7/14/2020
Comments:

Title: Seepage Pit and Clarifier Removal Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60499623
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Workplan
Date Completed: 7/15/2021
Comments:

Title: SSI Report - Focused on Former Dry Cleaners
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60481737
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Characterization Report
Date Completed: 6/17/2021

Comments:

Title: Current Conditions Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60467320
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Report
Date Completed: 11/19/2019
Comments:

Title: Seepage Pit Investigation Report
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60486969
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Workplan
Date Completed: 6/17/2021
Comments:

Title: Brief summary and scope of work to investigate potential site impacts from the dry well
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60493068
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Technical Workplan
Date Completed: 2/4/2021
Comments:

Title: Revised Workplan Addendum for Phase II Environmental Site Assessment
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60489787
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Tech Memo
Date Completed: 10/22/2020
Comments:

Title: Revised Supplemental Workplan - Focused on Former Dry Cleaners
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60481735
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Workplan
Date Completed: 9/22/2020
Comments:

Title: Workplan Addnedum
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60481413
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Supplemental Site Investigation Tech Memo
Date Completed: 7/29/2020
Comments:

Title: PEA Workplan
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60464318
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Preliminary Endangerment Assessment Workplan

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Date Completed: 1/9/2020
Comments:

Title: Site Visit
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&enforcement_id=60465511
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Site Inspections/Visit (Non LUR)
Date Completed: 7/23/2019
Comments:

Title: 2020/2021 Annual Cost Estimation Letter
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&enforcement_id=60466858
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Annual Oversight Cost Estimate
Date Completed: 10/22/2020
Comments:

Title: PEA Implementation
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60466860
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 4/15/2020
Comments:

Title: Field Work - field work oversight
Title Link: https://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60002840&doc_id=60484173
Area Name:
Area Link:
Sub Area:
Sub Area Link:
Document Type: Fieldwork
Date Completed: 11/3/2020
Comments:

8	1 of 2	E	0.16 / 833.15	1,560.60 / 8	PORVENE DOORS INC 14241 GRANT ST MORENO VALLEY CA 92553	EMISSIONS

2016 Toxic Data

Facility ID:	133379	**TS:**	
Facility SIC Code:	9999	**HRA:**	
CERR CODE:		**CH Index:**	
COID:	RIV	**AH Index:**	
CO:	33	**Air Basin:**	SC
DISN:	SOUTH COAST AQMD	**District:**	SC
CHAPIS:			

8	2 of 2	E	0.16 / 833.15	1,560.60 / 8	PORVENE DOORS INC 14241 GRANT ST MORENO VALLEY CA 92553	RCRA NON GEN

EPA Handler ID: CAL000271844
Gen Status Universe: No Report
Contact Name: GARY PETERS
Contact Address: 14241 GRANT ST , , MORENO VALLEY , CA, 92553 ,

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Contact Phone No and Ext: 951-653-3727
Contact Email: STEPHEN@PORVENEDOORS.COM
Contact Country:
County Name: RIVERSIDE
EPA Region: 09
Land Type:
Receive Date: 20030616
Location Latitude: 33.916202
Location Longitude: -117.274265

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20030616
Handler Name: PORVENE DOORS INC
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: GARY PETERS
Date Became Current:
Date Ended Current:
Phone: 951-653-3727
Source Type: Implementer
Street No:
Street 1: 14241 GRANT ST
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553

Owner/Operator Ind: Current Owner
Type: Other
Name: PORVENE DOORS INC
Date Became Current:
Date Ended Current:
Phone: 951-653-3727
Source Type: Implementer
Street No:
Street 1: 14241 GRANT ST
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553-0000

9	1 of 7	NNE	0.16 / 844.33	1,559.54 / 7	Gas 4 Less 22144 Alessandro Blvd Moreno Valley CA	LOP RIVERSIDE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Site ID: 9915615
Status Code: 0
Status Desc:
Case Type Code: S
Case Type Desc: SOIL ONLY IS IMPACTED
Closed Code: R
Closed Desc: Case referred to RWQCB or oversight
Employee: Boltinghous-LOP

---

9 | **2 of 7** | **NNE** | **0.16 / 844.33** | **1,559.54 / 7** | **Flite Chief (Mobil)**
22144 Alessandro Blvd
Moreno Valley CA | **LOP RIVERSIDE**

Site ID: 91630
Status Code: 9
Status Desc: CLOSED/ACTION COMPLETED
Case Type Code: S
Case Type Desc: SOIL ONLY IS IMPACTED
Closed Code: Y
Closed Desc: CLOSED SITE
Employee: Boltinghous-LOP

---

9 | **3 of 7** | **NNE** | **0.16 / 844.33** | **1,559.54 / 7** | **FLITE CHIEF, INC. (MOBIL)**
22144 ALESSANDRO BLVD
MORENO VALLEY CA 92553 | **LUST**

Global ID: T0606500222
Status: COMPLETED - CASE CLOSED
Status Date: 2/16/1993
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download
County: RIVERSIDE
Latitude: 33.91721
Longitude: -117.276425

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 083301749T
Local Case No: 91630
Begin Date: 5/28/1991
Lead Agency: RIVERSIDE COUNTY LOP
Local Agency: RIVERSIDE COUNTY LOP
CUF Case: NO
Potential Media of Concern: Soil
How Discovered Description:
Calwater Watershed Name: Santa Ana River - Middle Santa Ana River - Riverside (801.27)
DWR GW Subbasin Name: San Jacinto (8-005)
Disadvantaged Community:
Calenviroscreen Score: 96-100% (highest scores)
Site History:
Potential COC: Gasoline
How Discovered: Inventory Control
Stop Method: Close and Remove Tank
Stop Description:
Case Worker: SCB
File Location: Local Agency Warehouse

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 2/16/1993
Action: Closure/No Further Action Letter

Action Type: ENFORCEMENT
Date : 2/10/1993
Action: Closure/No Further Action Letter - #Riv Co Closure

Action Type: ENFORCEMENT
Date : 2/9/1993
Action: File review - #RCDEH Site File

Action Type: Other
Date : 7/16/1991
Action: Leak Stopped

Action Type: Other
Date : 7/16/1991
Action: Leak Reported

Action Type: Other
Date : 5/28/1991
Action: Leak Discovery

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
City: RIVERSIDE
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
Email: rose.scott@waterboards.ca.gov
Phone No: 9513206375

Contact Type: Local Agency Caseworker
Contact Name: SHARON BOLTINGHOUSE
City: RIVERSIDE
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
Email: sbolting@rivco.org
Phone No: 9519558980

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 2/16/1993

Status: Open - Site Assessment
Status Date: 3/10/1992

Status: Open - Site Assessment
Status Date: 7/16/1991

Status: Open - Case Begin Date
Status Date: 5/28/1991

Status: Open - Site Assessment
Status Date: 5/28/1991

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: FLITE CHIEF, INC. (MOBIL)
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig:
CUF Amount Paid:
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 22144 ALESSANDRO BLVD
City: MORENO VALLEY
Zip: 92553
County: RIVERSIDE
CUF Claim:
File Location: LOCAL AGENCY WAREHOUSE
Designated Beneficial Use: MUN - Note: Area outside basins not specified-Pot MUN stated.
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0606500222
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 2/16/1993
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0606500222&tabname=regulatoryhistory
Potential Media of Concern: SOIL
User Defined Beneficial Use:
DWR GW Sub Basin: San Jacinto (8-005)
Calwater Watershed Name: Santa Ana River - Middle Santa Ana River - Riverside (801.27)
Post Closure Site Management: NOTIFY PRIOR TO CHANGE IN LAND USE
Future Land Use: UNKNOWN
Cleanup Oversight Agencies: RIVERSIDE COUNTY LOP (LEAD) - CASE #: 91630
CASEWORKER: SHARON BOLTINGHOUSE
SANTA ANA RWQCB (REGION 8) - CASE #: 083301749T
CASEWORKER: ROSE SCOTT
Gndwater Monitoring Freque:
Designated Beneficial Use Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply

Desc: stated.
Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 2/16/1993

Status: Open - Site Assessment
Date : 3/10/1992

Status: Open - Site Assessment
Date : 7/16/1991

Status: Open - Case Begin Date
Date : 5/28/1991

Status: Open - Site Assessment
Date : 5/28/1991

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 2/16/1993
Received Issue Date: 2/16/1993
Action: Closure/No Further Action Letter
Doc Link:
Title Description Comments:

NOTE: THE DIRECTIVE LETTER AND URR WERE DATED 7/19/91 & 7/16/91, RESPECTIVELY.

Action Type: Other Regulatory Actions
Action Date: 2/10/1993
Received Issue Date: 2/10/1993
Action: Closure/No Further Action Letter - #Riv Co Closure
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500222&enforcement_id=6005633&temptable=ENFORCEMENT
Title Description Comments:

Riv Co Site Closure

Action Type: Other Regulatory Actions
Action Date: 2/9/1993
Received Issue Date: 2/9/1993
Action: File review - #RCDEH Site File
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500222&enforcement_id=6051620&temptable=ENFORCEMENT
Title Description Comments:

RCDEH Upload Site File 5/20/2010

Action Type: Leak Action
Action Date: 7/16/1991
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 7/16/1991
Received Issue Date:

Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 5/28/1991
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents
Document Date: 2/10/1993
Type: CLOSURE/NO FURTHER ACTION LETTER
Title: RIV CO SITE CLOSURE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500222&enforcement_id=6005633
Size :
Submitted By: RIVERSIDE COUNTY LOP (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 2/9/1993
Type: FILE REVIEW
Title: RCDEH UPLOAD SITE FILE 5/20/2010
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500222&enforcement_id=6051620
Size :
Submitted By: SHARON BOLTINGHOUSE (REGULATOR)
Submitted:

9	4 of 7	NNE	0.16 / 844.33	1,559.54 / 7	GAS 4 LESS 22144 ALESSANDRO BLVD MORENO VALLEY CA 92553	LUST

Global ID: T0606599142
Status: COMPLETED - CASE CLOSED
Status Date: 2/27/2019
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download
County: RIVERSIDE
Latitude: 33.9171816782747
Longitude: -117.276383921461

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 083303703T
Local Case No: 9915615
Begin Date: 8/19/1999
Lead Agency: SANTA ANA RWQCB (REGION 8)
Local Agency: RIVERSIDE COUNTY LOP
CUF Case: YES
Potential Media of Concern: Aquifer used for drinking water supply
How Discovered Description:
Calwater Watershed Name: Santa Ana River - Middle Santa Ana River - Riverside (801.27)
DWR GW Subbasin Name: San Jacinto (8-005)
Disadvantaged Community: Disadvantaged Community
Calenviroscreen Score: 96-100% (highest scores)
Site History:
Potential COC: Gasoline
How Discovered: Tank Closure
Stop Method: Close and Remove Tank
Stop Description:
Case Worker: RS
File Location: Regional Board

A gasoline station formerly operated at 22144 Alessandro Boulevard in Moreno Valley, California (Site). The Site is an approximately ¼-acre commercial property on the northwest corner of the intersection of Alessandro Boulevard and Pepper Street. A coin laundromat uses the building on the western side of the property, and an auto detailing business uses the former canopy, islands, and northern building on the remainder of the property. There are no plans to redevelop the Site or change the current land use. From the 1960s until 1999, a gasoline fueling station operated at the Site. The property owner, Dick Miller (Flite Chief), operated the station initially, but later leased the Site. The station operated under various brands over the years, including Flite Chief from the late 1960s to late 1970s, Texaco from late 1980s, Mobil from 1990 to approximately 1992, and Gas 4 Less from approximately 1992 until 1999. When the Gas 4 Less station closed in August 1999, the underground storage tanks (USTs), dispensers, and product lines were removed from the Site. Petroleum hydrocarbons were detected in soil samples collected during the tank removal. According to County records, contaminated soil was placed back into the tank excavation. Two 10,000-gallon and one 7,500-gallon gasoline underground storage tanks were removed from the site on August 20, 1999. Two of the tanks were destroyed at Pacific Coast recycling in Long Beach, California, and one of the tanks was destroyed at Adams Steel in Anaheim, California in August 1999. An unauthorized release report for the release of gasoline from the UST systems was issued on September 14, 1999. The highest concentrations of petroleum hydrocarbons detected in samples collected at that time are shown on the table below: Contaminant Soil Sample Number Soil Sample Concentration (mg/kg) Total Petroleum Hydrocarbons as gasoline TKN-1S 5,200 Benzene

TKN-1S <16.7 Toluene TKN-3N 31 Ethylbenzene TKN-1S 17 Total Xylenes TKN-1S 550 Methyl tert-butyl ether TKN-3N 37 In September 2001, seven borings were drilled to a maximum depth of 75 feet and a grab groundwater sample was collected from one boring. The highest concentrations of petroleum hydrocarbons detected in samples collected at that time are shown on the table below: Contaminant Soil Sample Number Soil Sample Concentration (mg/kg) Grab Groundwater Sample Concentration (ug/l) Total Petroleum Hydrocarbons as gasoline B2-75' 16,000 360,000 Benzene B2-75' 330 14,000 Toluene B2-75' 1,100 52,000 Ethylbenzene B2-75' 340 9,200 Total Xylenes B2-75' 1,940 48,000 Methyl tert-butyl ether B5-30' 220 46,000 Tert butyl alcohol B1-30' 11 <25 Tert-amyl methyl ether B1-45' 0.027 <1 n-propylbenzene B2-75' 120 2,400 1,3,5-trimethylbenzene B2-75' 220 5,400 1,2,4-trimethylbenzene B2-75' 700 20,000 Naphthalene B2-35' 120 11,000 Isopropylbenzene B2-75' 31 <1 n-butylbenzene B1-10' 0.021 <1 1,1-dichloroethene (DCE) B1-15' 8.6 p-isopropyltoluene B2-10' 3 Five 4-inch diameter groundwater monitoring wells were installed in September and October 2005 with slotted casings extending from approximately 35 to 85 feet below ground surface. Groundwater sampling occurred on November 16, 2005 and April 3, 2006. Groundwater depths ranged from 55 to 58 feet below ground surface with the flow direction to the southwest and northwest. Groundwater monitoring confirmed the presence of significant contamination in deep soil and groundwater. The following table shows contaminants that were detected in soil and groundwater at higher concentrations than previously reported. Contaminant Soil Sample Number Soil Sample Concentration (mg/kg) Well Number (Date) Groundwater Concentration (ug/l) Total Petroleum Hydrocarbons as gasoline MW1 (11/05) 730,000 Benzene MW2-65' 400 MW2 (04/06) 33,000 Toluene MW2-65' 2,000 Ethylbenzene MW2-65' 700 Total Xylenes MW2-65' 3,500 Methyl tert-butyl ether MW1 (11/05) 430,000 n-propylbenzene MW2-65' 200 1,3,5-trimethylbenzene MW2-65' 310 1,2,4-trimethylbenzene MW2-65' 1,000 Naphthalene MW2-65' 90 Isopropylbenzene MW2-65' 60 MW1 (04/06) 250 p-Isopropyltoluene MW2-65' 25 MW1 (11/05) 37 1,2-dichloroethane MW5 (11/05) 690 In the well bores of wells MW1 and MW2, 2-inch diameter vapor wells were installed with slotted casings from 10 to 30 feet for MW1 and 5 to 30 feet for MW2. Since October 2005, consultants have installed thirteen groundwater monitoring wells (MW1 through MW13), six vapor extraction wells (MW1S, MW2S, VE1S, VE1D, VE2S, and VE2D), and four air sparge wells (AS1 through AS4) at the Site. Riverside County permitted the destruction of Well MW12 (November 26, 2013). Except for 282 mg/kg of MTBE in a soil samples collected at a depth of 50 feet during the installation of air sparge well AS1 on March 7, 2008, the highest concentrations of petroleum hydrocarbons at the Site were detected in soil samples collected during the 2001 and 2005 investigations. After approximately 10 months of remediation, significantly reduced concentrations of petroleum hydrocarbons were detected in soil samples collected from additional air sparge wells placed 15 to 35 feet from Wells MW1, MW2, and AS1, considered confirmation borings. Groundwater beneath the Site flows to the west-northwest at a relatively flat hydraulic gradient of approximately 0.002. The depth to groundwater in borings during drilling was originally measured at 75 feet bgs in 2001 and 65 feet bgs in 2005. In 2005, the depth to groundwater was initially measured in the first wells sampled at 57 feet bgs. During the most recent sampling event on December 7, 2016, groundwater depths ranged from approximately 26 to 30 feet bgs. Between 2005 and 2016, the groundwater elevation measured in wells rose an average of approximately 28 feet (from approximately 1499 to 1527 feet above mean sea level [amsl]). Historically, the maximum concentrations of TPH-g (2,900,000 micrograms per liter [µg/L]), benzene (150,000 µg/L), toluene (800,000 µg/L), ethylbenzene (110,000 µg/L), xylenes (930,000 µg/L), MtBE (920,000 µg/L), TBA (63,300 µg/L), and TAME (1,110 µg/L) were detected in groundwater samples collected from well MW1 between September 26, 2006 and December 31, 2015. The most recent groundwater sample results indicated significant reductions. On December 7, 2016, the maximum concentrations of MtBE (900 μg/L) and benzene (1,700 μg/L) were below the State Water Resources Control Board (SWRCB) Low Threat Closure Policy (State Board Resolution No. 2012-0016) levels of 1,000 and 3,000 μg/L, respectively. The high residual concentrations of TBA (24,000, 8,800 and 1,100 μg/L) and TPH-g (11,000, 17,000 and 1,000 μg/L) were limited to detections in samples from three wells (MW1, MW2 and MW5, respectively) near the dispenser islands. From February 11 through March 12, 2008, an interim vapor extraction system removed approximately 2,185 gallons of gasoline vapor from soil. The estimated radius of influence for the vapor extraction was 60 feet with an air flowrate of approximately 110 cubic feet per minute (cfm). The influent vapor concentrations to the system reduced from 29,000 parts per million by volume (ppmv) of TPH-g, 468 ppmv of benzene, and 2,140 ppmv of MtBE to 10,700 ppmv TPH-g, 225 ppmv of benzene, and 668 ppmv of MtBE after 29 days. Reductions in individual well sample concentrations were significant, as represented by concentrations in samples from MW1S reducing from 101,000 to 46,200 ppmv of TPH-g, 1,930 to 1,130 ppmv of benzene, and 8,690 to 4,910 ppmv of MtBE after 21 days. Soil gas oxygen concentrations increased from 32,200 ppmv initially to 99,400 ppmv after two weeks of operation, and carbon dioxide concentrations decreased from 149,000 to 99,400 ppmv over the same period. The air sparging test conducted on March 11, 2008 demonstrated a significant increase in dissolved oxygen in groundwater was achievable within a 30-foot radius of influence of the sparge well. Based on the results of the air sparge test and interim vapor extraction, additional remediation was required. Subsequent remedial activities at the Site consisted of air sparging and vapor extraction (AS/VE) from July 8, 2008 through August 31, 2015. The AS/VE remediation system operated for one additional month in February 2016 followed by soil vapor rebound sampling in late March 2016. Consultants calculated that during AS/VE system operation from July 8, 2008 to February 29, 2016, the AS/VE remediation system removed approximately 2,792 gallons of gasoline, 276 gallons of MTBE, and 22 gallons of benzene in soil vapor extracted from the vadose zone and stripped from the groundwater through air sparging. The influent concentrations of TPH-g to the AS/VE system reduced from 6,113 parts per million by volume (parts per million by volume) in July 2008 to 13 ppmv in February of 2016. Reductions in maximum concentrations in samples collected from individual wells were as follows: Contaminant Concentration (ppmv) February 2008 Concentration (ppmv) July 2008 Concentration (ppmv) February 2016 Concentration (ppmv) March 2016 TPH-g 101,000 (MW1S) 39,700 (MW2D) 28.7 (VE1S) 687 (MW1D) MtBE 8,690 (MW1S) 2,120 (MW1D) <0.028 (All Wells) <0.028 (All Wells) Benzene 1,930 (MW1S) 617 (MW2D) 0.31 (MW1D) 27.1 (MW1D) Toluene 4,870 (MW1S) 1,440 (MW2D) 0.026 (MW2D) 0.016J (VE2D) Ethylbenzene 267 (MW1S) 95.9 (MW1D) 0.056 (MW2D) 1.2 (MW1D) Total Xylenes 1,300 (MW1S) 629 (MW2D-10/08) 0.365 (MW2D) 0.35 (MW1D) Low concentrations of trimethylbenzenes were the only additional analytes detected in the final vapor samples. Naphthalene, 1,1-DCE, and 1,2-DCA were not detected.

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type:	ENFORCEMENT
Date :	2/27/2019
Action:	Closure/No Further Action Letter
Action Type:	ENFORCEMENT
Date :	9/28/2018
Action:	Staff Letter
Action Type:	ENFORCEMENT
Date :	5/23/2018
Action:	Notification - Preclosure

Action Type: ENFORCEMENT
Date : 2/16/2018
Action: Email Correspondence

Action Type: ENFORCEMENT
Date : 11/8/2017
Action: Meeting

Action Type: ENFORCEMENT
Date : 8/11/2016
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Action Type: ENFORCEMENT
Date : 2/29/2016
Action: Email Correspondence

Action Type: ENFORCEMENT
Date : 2/17/2016
Action: Email Correspondence

Action Type: ENFORCEMENT
Date : 2/12/2016
Action: File review

Action Type: ENFORCEMENT
Date : 8/14/2015
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Action Type: RESPONSE
Date : 7/31/2015
Action: Monitoring Report - Quarterly - Regulator Responded

Action Type: RESPONSE
Date : 7/30/2015
Action: Remedial Progress Report - Regulator Responded

Action Type: RESPONSE
Date : 4/30/2015
Action: Monitoring Report - Quarterly - Regulator Responded

Action Type: RESPONSE
Date : 4/30/2015
Action: Interim Remedial Action Report

Action Type: ENFORCEMENT
Date : 12/9/2014
Action: File review - #RCDEH uploaded site file 12/9/2014

Action Type: RESPONSE
Date : 7/30/2014
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/30/2014
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/30/2013
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 3/13/2012
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Action Type: RESPONSE
Date : 1/30/2012
Action: Remedial Progress Report

Action Type: RESPONSE
Date : 1/30/2012
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/30/2011
Action: Monitoring Report - Quarterly - Regulator Responded

Action Type: RESPONSE
Date : 4/28/2011
Action: Soil and Water Investigation Report - Regulator Responded

Action Type: ENFORCEMENT
Date : 4/19/2011
Action: Staff Letter

Action Type: RESPONSE
Date : 3/28/2011
Action: Other Report / Document

Action Type: ENFORCEMENT
Date : 1/13/2011
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 1/11/2011
Action: Technical Correspondence / Assistance / Other

Action Type: REMEDIATION
Date : 1/1/2011
Action: Soil Vapor Extraction (SVE)

Action Type: ENFORCEMENT
Date : 12/30/2010
Action: Staff Letter

Action Type: RESPONSE
Date : 10/30/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/30/2010
Action: Remedial Progress Report

Action Type: REMEDIATION
Date : 10/1/2010
Action: Soil Vapor Extraction (SVE)

Action Type: RESPONSE
Date : 7/30/2010
Action: Remedial Progress Report

Action Type: RESPONSE
Date : 7/30/2010
Action: Monitoring Report - Quarterly

Action Type: REMEDIATION
Date : 7/1/2010
Action: Soil Vapor Extraction (SVE)

Action Type: ENFORCEMENT
Date : 4/30/2010
Action: Verbal Enforcement

Action Type: RESPONSE
Date : 4/30/2010
Action: Monitoring Report - Quarterly

Action Type: REMEDIATION

Date : 4/1/2010
Action: Soil Vapor Extraction (SVE)

Action Type: RESPONSE
Date : 1/30/2010
Action: Well Installation Workplan

Action Type: REMEDIATION
Date : 1/1/2010
Action: Soil Vapor Extraction (SVE)

Action Type: ENFORCEMENT
Date : 11/19/2009
Action: Staff Letter

Action Type: REMEDIATION
Date : 10/1/2009
Action: Soil Vapor Extraction (SVE)

Action Type: ENFORCEMENT
Date : 7/28/2009
Action: Staff Letter

Action Type: REMEDIATION
Date : 7/1/2009
Action: Soil Vapor Extraction (SVE)

Action Type: REMEDIATION
Date : 4/1/2009
Action: Soil Vapor Extraction (SVE)

Action Type: ENFORCEMENT
Date : 3/26/2009
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 2/27/2009
Action: Staff Letter

Action Type: REMEDIATION
Date : 1/1/2009
Action: Soil Vapor Extraction (SVE)

Action Type: ENFORCEMENT
Date : 12/2/2008
Action: Staff Letter

Action Type: REMEDIATION
Date : 10/1/2008
Action: Soil Vapor Extraction (SVE)

Action Type: REMEDIATION
Date : 9/1/2008
Action: Soil Vapor Extraction (SVE)

Action Type: REMEDIATION
Date : 8/1/2008
Action: Soil Vapor Extraction (SVE)

Action Type: RESPONSE
Date : 7/30/2008
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/30/2008
Action: Remedial Progress Report

Action Type: RESPONSE
Date : 7/8/2008

Action: Other Report / Document

Action Type: REMEDIATION
Date : 7/8/2008
Action: Soil Vapor Extraction (SVE)

Action Type: REMEDIATION
Date : 7/8/2008
Action: In Situ Physical/Chemical Treatment (other than SVE)

Action Type: RESPONSE
Date : 6/30/2008
Action: Other Workplan

Action Type: RESPONSE
Date : 5/30/2008
Action: Well Installation Report

Action Type: RESPONSE
Date : 5/12/2008
Action: Interim Remedial Action Report

Action Type: ENFORCEMENT
Date : 5/7/2008
Action: Staff Letter

Action Type: RESPONSE
Date : 4/30/2008
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 2/18/2008
Action: Interim Remedial Action Report

Action Type: ENFORCEMENT
Date : 1/25/2008
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 1/23/2008
Action: Meeting

Action Type: ENFORCEMENT
Date : 10/2/2007
Action: Staff Letter

Action Type: RESPONSE
Date : 2/28/2007
Action: Interim Remedial Action Plan

Action Type: RESPONSE
Date : 1/30/2007
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 9/29/2006
Action: Soil and Water Investigation Workplan

Action Type: ENFORCEMENT
Date : 8/16/2006
Action: Staff Letter

Action Type: Other
Date : 9/14/1999
Action: Leak Reported

Action Type: Other
Date : 9/13/1999
Action: Leak Discovery

Action Type: Other
Date : 8/19/1999
Action: Leak Stopped

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
City: RIVERSIDE
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
Email: rose.scott@waterboards.ca.gov
Phone No: 9513206375

Contact Type: Local Agency Caseworker
Contact Name: SHARON BOLTINGHOUSE
City: RIVERSIDE
Organization Name: RIVERSIDE COUNTY LOP
Address: 3880 LEMON ST SUITE 200
Email: sbolting@rivco.org
Phone No: 9519558980

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 2/27/2019

Status: Open - Eligible for Closure
Status Date: 4/27/2018

Status: Open - Remediation
Status Date: 2/11/2008

Status: Open - Site Assessment
Status Date: 9/14/1999

Status: Open - Case Begin Date
Status Date: 8/19/1999

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: GAS 4 LESS
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig: B
CUF Amount Paid: $1,396,174
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 22144 ALESSANDRO BLVD
City: MORENO VALLEY
Zip: 92553
County: RIVERSIDE
CUF Claim: 15419
File Location: REGIONAL BOARD
Designated Beneficial Use: MUN - Note: Area outside basins not specified-Pot MUN stated.
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0606599142
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 2/27/2019
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0606599142&tabname=regulatoryhistory
Potential Media of Concern: AQUIFER USED FOR DRINKING WATER SUPPLY
User Defined Beneficial Use:
DWR GW Sub Basin: San Jacinto (8-005)
Calwater Watershed Name: Santa Ana River - Middle Santa Ana River - Riverside (801.27)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: SANTA ANA RWQCB (REGION 8) (LEAD) - CASE #: 083303703T
CASEWORKER: ROSE SCOTT
RIVERSIDE COUNTY LOP - CASE #: 9915615
CASEWORKER: SHARON BOLTINGHOUSE
Gndwater Monitoring Freque:
Designated Beneficial Use Desc: Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply stated.
Site History:

A gasoline station formerly operated at 22144 Alessandro Boulevard in Moreno Valley, California (Site). The Site is an approximately ¼-acre commercial property on the northwest corner of the intersection of Alessandro Boulevard and Pepper Street. A coin laundromat uses the building on the western side of the property, and an auto detailing business uses the former canopy, islands, and northern building on the remainder of the property. There are no plans to redevelop the Site or change the current land use.
From the 1960s until 1999, a gasoline fueling station operated at the Site. The property owner, Dick Miller (Flite Chief), operated the station initially, but later leased the Site. The station operated under various brands over the years, including Flite Chief from the late 1960s to late 1970s, Texaco from late 1980s, Mobil from 1990 to approximately 1992, and Gas 4 Less from approximately 1992 until 1999. When the Gas 4 Less station closed in August 1999, the underground storage tanks (USTs), dispensers, and product lines were removed from the Site. Petroleum hydrocarbons were detected in soil samples collected during the tank removal. According to County records, contaminated soil was placed back into the tank excavation.
Two 10,000-gallon and one 7,500-gallon gasoline underground storage tanks were removed from the site on August 20, 1999. Two of the tanks were destroyed at Pacific Coast recycling in Long Beach, California, and one of the tanks was destroyed at Adams Steel in Anaheim, California in August 1999. An unauthorized release report for the release of gasoline from the UST systems was issued on September 14, 1999. The highest concentrations of petroleum hydrocarbons detected in samples collected at that time are shown on the table below:
Contaminant Soil Sample Number Soil Sample Concentration (mg/kg)
Total Petroleum Hydrocarbons as gasoline TKN-1S 5,200
Benzene TKN-1S <16.7
Toluene TKN-3N 31
Ethylbenzene TKN-1S 17
Total Xylenes TKN-1S 550
Methyl tert-butyl ether TKN-3N 37
In September 2001, seven borings were drilled to a maximum depth of 75 feet and a grab groundwater sample was collected from one boring. The highest concentrations of petroleum hydrocarbons detected in samples collected at that time are shown on the table below:
Contaminant Soil Sample Number Soil Sample Concentration (mg/kg) Grab Groundwater Sample Concentration (ug/l)
Total Petroleum Hydrocarbons as gasoline B2-75' 16,000 360,000
Benzene B2-75' 330 14,000
Toluene B2-75' 1,100 52,000
Ethylbenzene B2-75' 340 9,200
Total Xylenes B2-75' 1,940 48,000
Methyl tert-butyl ether B5-30' 220 46,000
Tert butyl alcohol B1-30' 11 <25
Tert-amyl methyl ether B1-45' 0.027 <1
n-propylbenzene B2-75' 120 2,400
1,3,5-trimethylbenzene B2-75' 220 5,400
1,2,4-trimethylbenzene B2-75' 700 20,000
Naphthalene B2-35' 120 11,000
Isopropylbenzene B2-75' 31 <1
n-butylbenzene B1-10' 0.021 <1
1,1-dichloroethene (DCE) B1-15' 8.6
p-isopropyltoluene B2-10' 3
Five 4-inch diameter groundwater monitoring wells were installed in September and October 2005 with slotted casings extending from approximately 35 to 85 feet below ground surface. Groundwater sampling occurred on November 16, 2005 and April 3, 2006. Groundwater depths ranged from 55 to 58 feet below ground surface with the flow direction to the southwest and northwest. Groundwater monitoring confirmed the presence of significant contamination in deep soil and groundwater. The following table shows contaminants that were detected in soil and groundwater at higher concentrations than previously reported.
Contaminant Soil Sample Number Soil Sample Concentration (mg/kg) Well Number (Date) Groundwater Concentration (ug/l)
Total Petroleum Hydrocarbons as gasoline MW1 (11/05) 730,000
Benzene MW2-65' 400 MW2 (04/06) 33,000
Toluene MW2-65' 2,000
Ethylbenzene MW2-65' 700
Total Xylenes MW2-65' 3,500
Methyl tert-butyl ether MW1 (11/05) 430,000
n-propylbenzene MW2-65' 200
1,3,5-trimethylbenzene MW2-65' 310
1,2,4-trimethylbenzene MW2-65' 1,000
Naphthalene MW2-65' 90
Isopropylbenzene MW2-65' 60 MW1 (04/06) 250
p-Isopropyltoluene MW2-65' 25 MW1 (11/05) 37
1,2-dichloroethane MW5 (11/05) 690
In the well bores of wells MW1 and MW2, 2-inch diameter vapor wells were installed with slotted casings from 10 to 30 feet for MW1 and 5 to 30 feet for MW2.
Since October 2005, consultants have installed thirteen groundwater monitoring wells (MW1 through MW13), six vapor extraction wells (MW1S, MW2S, VE1S, VE1D, VE2S, and VE2D), and four air sparge wells (AS1 through AS4) at the Site. Riverside County permitted the destruction of Well MW12 (November 26, 2013). Except for 282 mg/kg of MTBE in a soil samples collected at a depth of 50 feet during the installation of air sparge well AS1 on March 7, 2008, the highest concentrations of petroleum hydrocarbons at the Site were detected in soil samples collected during the 2001 and 2005 investigations. After approximately 10 months of remediation, significantly reduced concentrations of petroleum hydrocarbons were detected in soil samples collected from additional air sparge wells placed 15 to 35 feet from Wells MW1, MW2, and AS1, considered confirmation borings.
Groundwater beneath the Site flows to the west-northwest at a relatively flat hydraulic gradient of approximately 0.002. The depth to groundwater in borings during drilling was originally measured at 75 feet bgs in 2001 and 65 feet bgs in 2005. In 2005, the depth to groundwater was initially measured in the first wells sampled at 57 feet bgs. During the most recent sampling event on December 7, 2016, groundwater depths ranged from approximately 26 to 30 feet bgs. Between 2005 and 2016, the groundwater elevation measured in wells rose an average of approximately 28 feet (from approximately 1499 to 1527 feet above mean sea level [amsl]).

Historically, the maximum concentrations of TPH-g (2,900,000 micrograms per liter [µg/L]), benzene (150,000 µg/L), toluene (800,000 µg/L), ethylbenzene (110,000 µg/L), xylenes (930,000 µg/L), MtBE (920,000 µg/L), TBA (63,300 µg/L), and TAME (1,110 µg/L) were detected in groundwater samples collected from well MW1 between September 26, 2006 and December 31, 2015. The most recent groundwater sample results indicated significant reductions. On December 7, 2016, the maximum concentrations of MtBE (900 µg/L) and benzene (1,700 µg/L) were below the State Water Resources Control Board (SWRCB) Low Threat Closure Policy (State Board Resolution No. 2012-0016) levels of 1,000 and 3,000 µg/L, respectively. The high residual concentrations of TBA (24,000, 8,800 and 1,100 µg/L) and TPH-g (11,000, 17,000 and 1,000 µg/L) were limited to detections in samples from three wells (MW1, MW2 and MW5, respectively) near the dispenser islands.
From February 11 through March 12, 2008, an interim vapor extraction system removed approximately 2,185 gallons of gasoline vapor from soil. The estimated radius of influence for the vapor extraction was 60 feet with an air flowrate of approximately 110 cubic feet per minute (cfm). The influent vapor concentrations to the system reduced from 29,000 parts per million by volume (ppmv) of TPH-g, 468 ppmv of benzene, and 2,140 ppmv of MtBE to 10,700 ppmv TPH-g, 225 ppmv of benzene, and 668 ppmv of MtBE after 29 days. Reductions in individual well sample concentrations were significant, as represented by concentrations in samples from MW1S reducing from 101,000 to 46,200 ppmv of TPH-g, 1,930 to 1,130 ppmv of benzene, and 8,690 to 4,910 ppmv of MtBE after 21 days. Soil gas oxygen concentrations increased from 32,200 ppmv initially to 99,400 ppmv after two weeks of operation, and carbon dioxide concentrations decreased from 149,000 to 99,400 ppmv over the same period. The air sparging test conducted on March 11, 2008 demonstrated a significant increase in dissolved oxygen in groundwater was achievable within a 30-foot radius of influence of the sparge well. Based on the results of the air sparge test and interim vapor extraction, additional remediation was required. Subsequent remedial activities at the Site consisted of air sparging and vapor extraction (AS/VE) from July 8, 2008 through August 31, 2015. The AS/VE remediation system operated for one additional month in February 2016 followed by soil vapor rebound sampling in late March 2016. Consultants calculated that during AS/VE system operation from July 8, 2008 to February 29, 2016, the AS/VE remediation system removed approximately 2,792 gallons of gasoline, 276 gallons of MTBE, and 22 gallons of benzene in soil vapor extracted from the vadose zone and stripped from the groundwater through air sparging.
The influent concentrations of TPH-g to the AS/VE system reduced from 6,113 parts per million by volume (parts per million by volume) in July 2008 to 13 ppmv in February of 2016. Reductions in maximum concentrations in samples collected from individual wells were as follows:
Contaminant Concentration (ppmv) February 2008 Concentration (ppmv) July 2008 Concentration (ppmv) February 2016 Concentration (ppmv) March 2016
TPH-g 101,000 (MW1S) 39,700 (MW2D) 28.7 (VE1S) 687 (MW1D)
MtBE 8,690 (MW1S) 2,120 (MW1D) <0.028 (All Wells) <0.028 (All Wells)
Benzene 1,930 (MW1S) 617 (MW2D) 0.31 (MW1D) 27.1 (MW1D)
Toluene 4,870 (MW1S) 1,440 (MW2D) 0.026 (MW2D) 0.016J (VE2D)
Ethylbenzene 267 (MW1S) 95.9 (MW1D) 0.056 (MW2D) 1.2 (MW1D)
Total Xylenes 1,300 (MW1S) 629 (MW2D-10/08) 0.365 (MW2D) 0.35 (MW1D)
Low concentrations of trimethylbenzenes were the only additional analytes detected in the final vapor samples. Naphthalene, 1,1-DCE, and 1,2-DCA were not detected.

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 2/27/2019

Status: Open - Eligible for Closure
Date : 4/27/2018

Status: Open - Remediation
Date : 2/11/2008

Status: Open - Site Assessment
Date : 9/14/1999

Status: Open - Case Begin Date
Date : 8/19/1999

LUST Sites from GeoTracker Search - Cleanup Action Report (as of May 29, 2021)

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 1/1/2011
Phase: Other (See Description) ***End Date:*** 3/31/2011
Contaminant Mass Removed: 81 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 10/1/2010
Phase: Other (See Description) ***End Date:*** 12/31/2010
Contaminant Mass Removed: 50 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 7/1/2010
Phase: Other (See Description) ***End Date:*** 9/30/2010
Contaminant Mass Removed: 195 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 4/1/2010
Phase: Other (See Description) ***End Date:*** 6/30/2010
Contaminant Mass Removed: 654 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 1/1/2010
Phase: Other (See Description) ***End Date:*** 3/31/2010
Contaminant Mass Removed: 227 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 10/1/2009
Phase: Other (See Description) ***End Date:*** 12/31/2009
Contaminant Mass Removed: 356 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 7/1/2009
Phase: Other (See Description) ***End Date:*** 9/30/2009
Contaminant Mass Removed: 413 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 4/1/2009
Phase: Other (See Description) ***End Date:*** 6/30/2009
Contaminant Mass Removed: 1,241 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 1/1/2009
Phase: Other (See Description) ***End Date:*** 3/31/2009
Contaminant Mass Removed: 1,766 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 10/1/2008
Phase: Other (See Description) ***End Date:*** 12/31/2008
Contaminant Mass Removed: 3,347 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 9/1/2008
Phase: Other (See Description) ***End Date:*** 9/30/2008
Contaminant Mass Removed: 2,085 Pounds
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 8/1/2008
Phase: Other (See Description) ***End Date:*** 8/31/2008
Contaminant Mass Removed: 3,043 Pounds
Description:

Action Type: IN SITU PHYSICAL/CHEMICAL TREATMENT (OTHER THAN SVE) ***Begin Date:*** 7/8/2008
Phase: Water ***End Date:*** 3/31/2011
Contaminant Mass Removed:
Description:

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 7/8/2008
Phase: Other (See Description) ***End Date:*** 7/31/2008
Contaminant Mass Removed: 3,180 Pounds
Description: SVE using an IC engine with thermal oxidation.

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 2/27/2019
Received Issue Date: 2/27/2019
Action: Closure/No Further Action Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6398905&temptable=ENFORCEMENT
Title Description Comments:

No Further Action Letter and Case Summary

Action Type: Other Regulatory Actions
Action Date: 9/28/2018
Received Issue Date: 9/28/2018
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6372759&temptable=ENFORCEMENT
Title Description Comments:

Closure Requirements

Action Type: Notices
Action Date: 5/23/2018
Received Issue Date: 5/23/2018
Action: Notification - Preclosure
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6359095&temptable=ENFORCEMENT
Title Description Comments:

Notification of Case Closure Review for Public Comment

Action Type: Other Regulatory Actions
Action Date: 2/16/2018
Received Issue Date: 2/16/2018
Action: Email Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6349050&temptable=ENFORCEMENT
Title Description Comments:

Request maps and contacts for notification

Action Type: Other Regulatory Actions
Action Date: 11/8/2017
Received Issue Date: 11/8/2017
Action: Meeting
Doc Link:
Title Description Comments:

JET Meeting with RP, Consultant, Regional Board and State Board

Action Type: Other Regulatory Actions
Action Date: 8/11/2016
Received Issue Date: 8/11/2016
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6388970&temptable=ENFORCEMENT
Title Description Comments:

3rd RSR Rationale for Additional Work August 2016

Action Type: Other Regulatory Actions
Action Date: 2/29/2016
Received Issue Date: 2/29/2016
Action: Email Correspondence
Doc Link:
Title Description Comments:

Request for Meeting (Meeting was scheduled, but RP had to cancel meeting for personal reasons.)

Action Type: Other Regulatory Actions
Action Date: 2/17/2016
Received Issue Date: 2/17/2016
Action: Email Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?

global_id=T0606599142&enforcement_id=6276106&temptable=ENFORCEMENT

Title Description Comments:

Request to re-start system and approval for short-term rebound test.

Action Type: Other Regulatory Actions
Action Date: 2/12/2016
Received Issue Date: 2/12/2016
Action: File review
Doc Link:
Title Description Comments:

Reviewing rebound data

Action Type: Other Regulatory Actions
Action Date: 8/14/2015
Received Issue Date: 8/14/2015
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6256690&temptable=ENFORCEMENT
Title Description Comments:

15419 2ND RSR Rationale Addtional Work Aug 2015

Action Type: Response Requested - Reports
Action Date: 7/31/2015
Received Issue Date: 7/20/2015
Action: Monitoring Report - Quarterly - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5858200
Title Description Comments:

- We scheduled a meeting and discussed the case over the phone. This case has active air sparging. The case can be closed after a period of aquifer stabilization, groundwater monitoring and rebound testing.

Action Type: Response Requested - Reports
Action Date: 7/30/2015
Received Issue Date: 7/20/2015
Action: Remedial Progress Report - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5858202
Title Description Comments:

- Spoke on the phone with consultant regarding turning off system and conducting post remedial monitoring. Scheduled a meeting to discuss outstanding issues.

Action Type: Response Requested - Reports
Action Date: 4/30/2015
Received Issue Date: 4/13/2015
Action: Interim Remedial Action Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5844866
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 4/30/2015
Received Issue Date: 4/2/2015
Action: Monitoring Report - Quarterly - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5844864
Title Description Comments:

- Continued remediation required. Confirmation sampling required.

Action Type: Other Regulatory Actions
Action Date: 12/9/2014
Received Issue Date: 12/9/2014
Action: File review - #RCDEH uploaded site file 12/9/2014

Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6230061&temptable=ENFORCEMENT
Title Description Comments:

RCDEH uploaded site file 12/9/2014

Action Type: Response Requested - Reports
Action Date: 7/30/2014
Received Issue Date: 7/10/2014
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5816672
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 4/30/2014
Received Issue Date: 3/20/2014
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5801192
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 1/30/2013
Received Issue Date: 1/11/2013
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5772333
Title Description Comments:

Action Type: Other Regulatory Actions
Action Date: 3/13/2012
Received Issue Date: 3/13/2012
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6394166&temptable=ENFORCEMENT
Title Description Comments:

Five Year Review, 2011

Action Type: Response Requested - Reports
Action Date: 1/30/2012
Received Issue Date: 1/10/2012
Action: Remedial Progress Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5729428
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 1/30/2012
Received Issue Date: 1/6/2012
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5729427
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 4/30/2011
Received Issue Date: 3/24/2011
Action: Monitoring Report - Quarterly - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5709484
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 4/28/2011
Received Issue Date: 3/24/2011
Action: Soil and Water Investigation Report - Regulator Responded

Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5707981
Title Description Comments:

Action Type: Other Regulatory Actions
Action Date: 4/19/2011
Received Issue Date: 4/19/2011
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6083957&temptable=ENFORCEMENT
Title Description Comments:

Access Request Letter

Action Type: Response Requested - Other
Action Date: 3/28/2011
Received Issue Date: 3/28/2011
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5709350
Title Description Comments:

RCDEH complete site file as of transfer to RWQCB for oversight

Action Type: Other Regulatory Actions
Action Date: 1/13/2011
Received Issue Date: 1/13/2011
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6074614&temptable=ENFORCEMENT
Title Description Comments:

Staff Letter responding to workplan for additional wells.

Action Type: Other Regulatory Actions
Action Date: 1/11/2011
Received Issue Date: 1/11/2011
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

Verbal Authorization to proceed with proposed work. Official Letter pending review.

Action Type: Other Regulatory Actions
Action Date: 12/30/2010
Received Issue Date: 12/30/2010
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6073110&temptable=ENFORCEMENT
Title Description Comments:

Third Quarter 2010 Report review

Action Type: Response Requested - Reports
Action Date: 10/30/2010
Received Issue Date: 10/11/2010
Action: Remedial Progress Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5702769
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 10/30/2010
Received Issue Date: 9/24/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5702770
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 7/30/2010
Received Issue Date: 7/15/2010
Action: Remedial Progress Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5702774
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 7/30/2010
Received Issue Date: 7/12/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5702772
Title Description Comments:

Action Type: Enforcement/Orders
Action Date: 4/30/2010
Received Issue Date: 4/30/2010
Action: Verbal Enforcement
Doc Link:
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 4/30/2010
Received Issue Date: 4/23/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5668660
Title Description Comments:

Action Type: Response Requested - Workplans
Action Date: 1/30/2010
Received Issue Date: 1/11/2010
Action: Well Installation Workplan
Doc Link:
Title Description Comments:

Action Type: Other Regulatory Actions
Action Date: 11/19/2009
Received Issue Date: 11/19/2009
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6037644&temptable=ENFORCEMENT
Title Description Comments:

Review of Remedial Action Progress

Action Type: Other Regulatory Actions
Action Date: 7/28/2009
Received Issue Date: 7/28/2009
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6027191&temptable=ENFORCEMENT
Title Description Comments:

Quarterly Groundwater Monitoring Requirement - SB resolution 2009-0042

Action Type: Other Regulatory Actions
Action Date: 3/26/2009
Received Issue Date: 3/26/2009
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6007868&temptable=ENFORCEMENT
Title Description Comments:

Workplan approval letter

Action Type: Other Regulatory Actions
Action Date: 2/27/2009
Received Issue Date: 2/27/2009
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6004821&temptable=ENFORCEMENT
Title Description Comments:

Comments on Assessment and Remediation Reports

Action Type: Other Regulatory Actions
Action Date: 12/2/2008
Received Issue Date: 12/2/2008
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=5995080&temptable=ENFORCEMENT
Title Description Comments:

Remedial Progress Report review

Action Type: Response Requested - Reports
Action Date: 7/30/2008
Received Issue Date: 8/22/2008
Action: Remedial Progress Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5598530
Title Description Comments:

Remedial Progress Report

Action Type: Response Requested - Reports
Action Date: 7/30/2008
Received Issue Date: 6/18/2008
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5598531
Title Description Comments:

Monitoring Report - Quarterly

Action Type: Response Requested - Other
Action Date: 7/8/2008
Received Issue Date: 8/22/2008
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606599142&doc_id=5598529
Title Description Comments:

Technical Report - full-scale system installation report

Action Type: Response Requested - Workplans
Action Date: *6/30/2008
Received Issue Date: 6/20/2008
Action: Other Workplan
Doc Link:
Title Description Comments:

Other Workplan - well cluster diagram

Action Type: Response Requested - Reports
Action Date: *5/30/2008
Received Issue Date: 5/19/2008
Action: Well Installation Report
Doc Link:

Title Description Comments:

Well Installation Report - partial report due to access issues for remaining wells

Action Type: Response Requested - Reports
Action Date: 5/12/2008
Received Issue Date: 3/24/2008
Action: Interim Remedial Action Report
Doc Link:
Title Description Comments:

Interim Remedial Action Report - final report of 30 day VES/AS

Action Type: Other Regulatory Actions
Action Date: 5/7/2008
Received Issue Date: 5/7/2008
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=5962907&temptable=ENFORCEMENT
Title Description Comments:

review of interim remedial progress

Action Type: Response Requested - Reports
Action Date: 4/30/2008
Received Issue Date: 4/8/2008
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly

Action Type: Response Requested - Reports
Action Date: 2/18/2008
Received Issue Date: 2/12/2008
Action: Interim Remedial Action Report
Doc Link:
Title Description Comments:

Interim Remedial Action Report - remedial progress report

Action Type: Other Regulatory Actions
Action Date: 1/25/2008
Received Issue Date: 1/25/2008
Action: Staff Letter
Doc Link:
Title Description Comments:

Action Type: Other Regulatory Actions
Action Date: 1/23/2008
Received Issue Date: 1/23/2008
Action: Meeting
Doc Link:
Title Description Comments:

Met to discuss compliance concerns.

Action Type: Other Regulatory Actions
Action Date: 10/2/2007
Received Issue Date: 10/2/2007
Action: Staff Letter
Doc Link:
Title Description Comments:

work plan comments

Action Type: Response Requested - Workplans
Action Date: *2/28/2007
Received Issue Date: 1/25/2008
Action: Interim Remedial Action Plan
Doc Link:
Title Description Comments:

Interim Remedial Action Plan

Action Type: Response Requested - Reports
Action Date: 1/30/2007
Received Issue Date: 1/22/2007
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly

Action Type: Response Requested - Workplans
Action Date: 9/29/2006
Received Issue Date: 1/22/2007
Action: Soil and Water Investigation Workplan
Doc Link:
Title Description Comments:

MTBE Investigation Workplan

Action Type: Other Regulatory Actions
Action Date: 8/16/2006
Received Issue Date: 8/16/2006
Action: Staff Letter
Doc Link:
Title Description Comments:

request mtbe investigation

Action Type: Cleanup Action
Action Date: 1/1/2011
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 10/1/2010
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 7/1/2010
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 4/1/2010
Received Issue Date:
Action: Soil Vapor Extraction (SVE)

Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 1/1/2010
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 10/1/2009
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 7/1/2009
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 4/1/2009
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 1/1/2009
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 10/1/2008
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 9/1/2008
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 8/1/2008
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 7/8/2008

Received Issue Date:
Action: In Situ Physical/Chemical Treatment (other than SVE)
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 7/8/2008
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

SVE using an IC engine with thermal oxidation.

Action Type: Leak Action
Action Date: 9/14/1999
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 9/13/1999
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 8/19/1999
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Site Maps (as of May 29, 2021)

Title: BORING LOG (6/17/08) (VE1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/4333511590/T0606599142.PDF
Size : 91 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (10/7/05) (MW-5)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2777462899/T0606599142.PDF
Size : 33 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (9/6/05) (MW-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3470533907/T0606599142.PDF
Size : 36 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (4/22/08) (MW-6)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2689544916/T0606599142.PDF
Size : 59 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (3/11/11) (MW-12)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5211180269/T0606599142.PDF
Size : 106 KB

Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (3/18/09) (MW-9)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/9680566608/T0606599142.PDF
Size : 113 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (3/18/09) (VE2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2804516732/T0606599142.PDF
Size : 108 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (3/17/09) (AS2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/8626153767/T0606599142.PDF
Size : 116 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (3/17/09) (AS3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/4549008309/T0606599142.PDF
Size : 114 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (9/9/05) (MW-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/6083593964/T0606599142.PDF
Size : 35 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (4/22/08) (MW-7)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3846679925/T0606599142.PDF
Size : 59 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (6/7/11) (MW-13)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/6206140339/T0606599142.PDF
Size : 104 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (9/7/05) (MW-4)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/7060263514/T0606599142.PDF
Size : 36 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (3/10/11) (MW-11)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/8059073090/T0606599142.PDF
Size : 108 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (9/6/05) (MW-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/7745315790/T0606599142.PDF
Size : 35 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (4/29/09) (MW-8)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/7792978107/T0606599142.PDF
Size : 112 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (4/29/09) (MW-10)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/1449737787/T0606599142.PDF
Size : 113 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (3/17/09) (AS4)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/9421005487/T0606599142.PDF
Size : 115 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: BORING LOG (3/7/08) (AS1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/4412573456/T0606599142.PDF
Size : 51 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 4/6/2018

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/4822015345/T0606599142.PDF
Size : 84 KB
Submitted By: DAVE SCHULTZ (AUTH_RP)
Submitted: 1/11/2011

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents
Document Date: 2/27/2019
Type: CLOSURE/NO FURTHER ACTION LETTER
Title: NO FURTHER ACTION LETTER AND CASE SUMMARY
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6398905
Size :
Submitted By: ROSE SCOTT (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 12/31/2018*
Type: WELL DESTRUCTION REPORT
Title: WELL DESTRUCTION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1944863379/T0606599142.PDF
Size : 13,500 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted:

Document Type: Site Documents
Document Date: 9/28/2018
Type: STAFF LETTER
Title: CLOSURE REQUIREMENTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6372759
Size :
Submitted By: ROSE SCOTT (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 5/23/2018
Type: NOTIFICATION - PRECLOSURE
Title: NOTIFICATION OF CASE CLOSURE REVIEW FOR PUBLIC COMMENT
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6359095
Size :
Submitted By: ROSE SCOTT (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 3/13/2018
Type: CORRESPONDENCE
Title: SUPPORTING CLOSURE SUMMARY DOCUMENTATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5855832040/T0606599142.PDF
Size : 580 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted:

Document Type: Site Documents
Document Date: 2/16/2018
Type: EMAIL CORRESPONDENCE
Title: REQUEST MAPS AND CONTACTS FOR NOTIFICATION
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6349050
Size :
Submitted By: ROSE SCOTT (REGULATOR)
Submitted:

Document Type: Monitoring Reports
Document Date: 12/22/2016*
Type: MONITORING REPORT - QUARTERLY
Title: FOURTH QUARTER 2016 GROUNDWATER MONITORING REPORT
Size : 6,979 KB
Submitted By: DAVE SCHULTZ (AUTH_RP)
Submitted:

Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9085715949/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 3,704 KB
Document Date: 9/16/2016* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2016 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1325876593/T0606599142.PDF

Document Type: Site Documents **Size :**
Document Date: 8/11/2016 **Submitted By:** (REGULATOR)
Type: CLEAN UP FUND - CASE CLOSURE REVIEW SUMMARY REPORT (RSR) **Submitted:**
Title: 3RD RSR RATIONALE FOR ADDITIONAL WORK AUGUST 2016
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6388970

Document Type: Monitoring Reports **Size :** 4,977 KB
Document Date: 6/30/2016* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2016 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8700026094/T0606599142.PDF

Document Type: Site Documents **Size :** 1,754 KB
Document Date: 5/12/2016* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FIRST QUARTER 2016 REPORT, REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER, VAPOR EXTRACTION AND AIR SPARGING, AND 30-DAY SOIL VAPOR REBOUND TEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6702162325/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 5,641 KB
Document Date: 4/11/2016 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FIRST QUARTER 2016 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2331560134/T0606599142.PDF

Document Type: Site Documents **Size :**
Document Date: 2/17/2016 **Submitted By:** ROSE SCOTT (REGULATOR)
Type: EMAIL CORRESPONDENCE **Submitted:**
Title: REQUEST TO RE-START SYSTEM AND APPROVAL FOR SHORT-TERM REBOUND TEST.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6276106

Document Type: Monitoring Reports **Size :** 2,170 KB
Document Date: 1/12/2016 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2015 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2148191988/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 55,452 KB
Document Date: 10/22/2015* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2015 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7506736516/T0606599142.PDF

Document Type: Site Documents **Size :** 26,535 KB
Document Date: 10/19/2015* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: THIRD QUARTER 2015 REPORT, REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1313056707/T0606599142.PDF

Document Type: Site Documents **Size :**
Document Date: 8/14/2015 **Submitted By:** CARYL SHEEHAN (REGULATOR)
Type: CLEAN UP FUND - CASE CLOSURE REVIEW SUMMARY REPORT (RSR) **Submitted:**
Title: 15419 2ND RSR RATIONALE ADDTIONAL WORK AUG 2015
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6256690

Document Type: Site Documents **Size :** 4,070 KB
Document Date: 7/20/2015 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: SECOND QUARTER 2015 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER

VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2192282140/T0606599142.PDF

Document Type: Site Documents ***Size :*** 5,398 KB
Document Date: 7/20/2015 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REQUEST FOR CLOSURE ***Submitted:***
Title: SECOND QUARTER 2015 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1774131119/T0606599142.PDF

Document Type: Site Documents ***Size :*** 4,090 KB
Document Date: 4/13/2015* ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: FIRST QUARTER 2015 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9155004918/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 2,331 KB
Document Date: 3/31/2015* ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: FIRST QUARTER 2015 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7598710536/T0606599142.PDF

Document Type: Site Documents ***Size :*** 2,117 KB
Document Date: 1/9/2015* ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: FOURTH QUARTER 2014 REPORT, REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER, VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3696831881/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 2,636 KB
Document Date: 1/2/2015* ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: FOURTH QUARTER 2014 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1147756993/T0606599142.PDF

Document Type: Site Documents ***Size :***
Document Date: 12/9/2014 ***Submitted By:*** LINDA SHURLOW (REGULATOR)
Type: FILE REVIEW ***Submitted:***
Title: RCDEH UPLOADED SITE FILE 12/9/2014
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6230061

Document Type: Site Documents ***Size :*** 1,963 KB
Document Date: 10/3/2014* ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: THIRD QUARTER 2013 REPORT REMEDIATION OF PETROLEUM-IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4191057324/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 2,479 KB
Document Date: 9/29/2014* ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: THIRD QUARTER 2014 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9369056463/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 2,598 KB
Document Date: 7/10/2014 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: SECOND QUARTER 2014 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1701209366/T0606599142.PDF

Document Type: Site Documents ***Size :*** 1,914 KB
Document Date: 7/10/2014 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: SECOND QUARTER 2014 REPORT, REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2688330948/T0606599142.PDF

Document Type: Site Documents ***Size :*** 1,963 KB
Document Date: 4/2/2014 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***

Title: FIRST QUARTER 2014 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9872087597/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,469 KB
Document Date: 3/20/2014 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FIRST QUARTER 2014 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6379259228/T0606599142.PDF

Document Type: Site Documents **Size :** 1,861 KB
Document Date: 1/3/2014* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FOURTH QUARTER 2013 REPORT, REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER, VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6545998752/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,516 KB
Document Date: 12/18/2013* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2013 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7089937329/T0606599142.PDF

Document Type: Site Documents **Size :** 1,816 KB
Document Date: 10/7/2013* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: THIRD QUARTER 2013 REPORT REMEDIATION OF PETROLEUM-IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2728639721/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,380 KB
Document Date: 9/19/2013 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8966096401/T0606599142.PDF

Document Type: Site Documents **Size :** 1,767 KB
Document Date: 7/3/2013* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: SECOND QUARTER 2013 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3035825610/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,700 KB
Document Date: 6/20/2013* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2013 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4673928439/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,954 KB
Document Date: 4/2/2013 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FIRST QUARTER 2013 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7673841357/T0606599142.PDF

Document Type: Site Documents **Size :** 1,783 KB
Document Date: 4/1/2013 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FIRST QUARTER 2013 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6415632128/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,287 KB
Document Date: 1/10/2013* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2012 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5141677796/T0606599142.PDF

Document Type: Site Documents **Size :** 1,737 KB

Document Date: 1/4/2013* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FOURTH QUARTER 2012 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5485090136/T0606599142.PDF

Document Type: Site Documents **Size :** 1,695 KB
Document Date: 10/2/2012 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: THIRD QUARTER 2012 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6159931242/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,028 KB
Document Date: 9/20/2012 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2012 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8705855607/T0606599142.PDF

Document Type: Site Documents **Size :** 1,622 KB
Document Date: 6/30/2012 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: SECOND QUARTER 2012 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6342620790/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,090 KB
Document Date: 6/20/2012 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2012 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2844512224/T0606599142.PDF

Document Type: Site Documents **Size :** 1,583 KB
Document Date: 4/4/2012 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FIRST QUARTER 2012 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8486815690/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,782 KB
Document Date: 3/30/2012 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FIRST QUARTER 2012 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7458634853/T0606599142.PDF

Document Type: Site Documents **Size :**
Document Date: 3/13/2012 **Submitted By:** KIRK T. LARSON (REGULATOR)
Type: CLEAN UP FUND - CASE CLOSURE REVIEW SUMMARY REPORT (RSR) **Submitted:**
Title: FIVE YEAR REVIEW, 2011
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6394166

Document Type: Site Documents **Size :** 1,612 KB
Document Date: 1/6/2012 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FOURTH QUARTER 2011 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2170258522/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,006 KB
Document Date: 1/4/2012 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2011 GROUNDWATER MONITORING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3443708062/T0606599142.PDF

Document Type: Site Documents **Size :** 1,693 KB
Document Date: 10/12/2011* **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: THIRD QUARTER 2011 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER

VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6952191948/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,656 KB
Document Date: 10/6/2011* ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: THIRD QUARTER 2011 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2262815117/T0606599142.PDF

Document Type: Site Documents ***Size :*** 2,094 KB
Document Date: 7/12/2011 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: SECOND QUARTER 2011 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4913404107/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,850 KB
Document Date: 7/8/2011 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: SECOND QUARTER 2011 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7226795971/T0606599142.PDF

Document Type: Site Documents ***Size :*** 1,707 KB
Document Date: 6/27/2011 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: WELL INSTALLATION REPORT ***Submitted:***
Title: REPORT FOR GROUNDWATER MONITORING WELL INSTALLATION MW13
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1797479212/T0606599142.PDF

Document Type: Site Documents ***Size :***
Document Date: 4/19/2011 ***Submitted By:*** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER ***Submitted:***
Title: ACCESS REQUEST LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6083957

Document Type: Site Documents ***Size :*** 2,675 KB
Document Date: 4/4/2011 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: FIRST QUARTER 2011 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7387322962/T0606599142.PDF

Document Type: Site Documents ***Size :***
Document Date: 3/28/2011 ***Submitted By:*** STEVEN COOK (REGULATOR)
Type: OTHER REPORT / DOCUMENT ***Submitted:***
Title: RCDEH COMPLETE SITE FILE AS OF TRANSFER TO RWQCB FOR OVERSIGHT - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&document_id=5709350

Document Type: Site Documents ***Size :*** 1,475 KB
Document Date: 3/23/2011 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: WELL INSTALLATION REPORT ***Submitted:***
Title: REPORT FOR GROUNDWATER MONITORING WELL INSTALLATION MW11 AND MW12
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4628586769/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 2,241 KB
Document Date: 3/23/2011 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: FIRST QUARTER 2011 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6648694634/T0606599142.PDF

Document Type: Site Documents ***Size :***
Document Date: 1/13/2011 ***Submitted By:*** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER ***Submitted:***
Title: STAFF LETTER RESPONDING TO WORKPLAN FOR ADDITIONAL WELLS.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6074614

Document Type: Site Documents ***Size :*** 708 KB
Document Date: 1/10/2011 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: WELL INSTALLATION WORKPLAN ***Submitted:***
Title: WORK PLAN FOR INSTALLATION OF ADDITIONAL GROUNDWATER MONITORING WELLS
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5383344292/T0606599142.PDF

Document Type: Site Documents **Size :** 2,494 KB
Document Date: 1/4/2011 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FOURTH QUARTER 2010 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2577035367/T0606599142.PDF

Document Type: Site Documents **Size :**
Document Date: 12/30/2010 **Submitted By:** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: THIRD QUARTER 2010 REPORT REVIEW
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6073110

Document Type: Monitoring Reports **Size :** 1,845 KB
Document Date: 12/28/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2010 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6076791346/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,461 KB
Document Date: 10/11/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2010 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4533139824/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,601 KB
Document Date: 9/24/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2010 GROUNDWATER MONITORING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4421540617/T0606599142.PDF

Document Type: Site Documents **Size :** 2,449 KB
Document Date: 7/12/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: PROGRESS REPORT (SOIL/GW/ UPDATES) **Submitted:**
Title: SECOND QUARTER 2010 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6410843849/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,655 KB
Document Date: 6/14/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2010 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1285996437/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,648 KB
Document Date: 6/14/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2010 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2553315520/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,582 KB
Document Date: 4/13/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FIRST QUARTER 2010 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8377604186/T0606599142.PDF

Document Type: Site Documents **Size :** 2,509 KB
Document Date: 4/12/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FIRST QUARTER 2010 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7177414894/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,550 KB
Document Date: 1/6/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2009 GROUNDWATER MONITORING REPORT

Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4602486729/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 2,443 KB
Document Date: 1/6/2010 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2009 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5570730924/T0606599142.PDF

Document Type: Site Documents **Size :**
Document Date: 11/19/2009 **Submitted By:** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: REVIEW OF REMEDIAL ACTION PROGRESS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6037644

Document Type: Monitoring Reports **Size :** 1,307 KB
Document Date: 10/9/2009 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2009 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1369675993/T0606599142.PDF

Document Type: Site Documents **Size :** 2,130 KB
Document Date: 10/8/2009 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: PROGRESS REPORT (SOIL/GW/ UPDATES) **Submitted:**
Title: THIRD QUARTER 2009 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1450060188/T0606599142.PDF

Document Type: Site Documents **Size :**
Document Date: 7/28/2009 **Submitted By:** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: QUARTERLY GROUNDWATER MONITORING REQUIREMENT - SB RESOLUTION 2009-0042
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6027191

Document Type: Site Documents **Size :** 2,280 KB
Document Date: 7/2/2009 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: SECOND QUARTER 2009 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2923464119/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,265 KB
Document Date: 6/25/2009 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2009 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2349814176/T0606599142.PDF

Document Type: Site Documents **Size :** 2,243 KB
Document Date: 5/12/2009 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: WELL INSTALLATION REPORT **Submitted:**
Title: REPORT FOR GROUNDWATER MONITORING WELL INSTALLATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2686159431/T0606599142.PDF

Document Type: Monitoring Reports **Size :** 1,433 KB
Document Date: 4/3/2009 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FIRST QUARTER 2009 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5180217921/T0606599142.PDF

Document Type: Site Documents **Size :** 2,577 KB
Document Date: 4/3/2009 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: FIRST QUARTER 2009 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8398226082/T0606599142.PDF

Document Type: Site Documents **Size :** 2,169 KB
Document Date: 3/30/2009 **Submitted By:** DAVE SCHULTZ (AUTH_RP)
Type: WELL INSTALLATION REPORT **Submitted:**
Title: REPORT FOR INSTALLATION OF AIR SPARGE WELLS AS2, AS3 AND AS4 NESTED VAPOR EXTRACTION

WELL VE2 GROUNDWATER MONITORING WELL MW9
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2893426060/T0606599142.PDF

Document Type: Site Documents ***Size :***
Document Date: 3/26/2009 ***Submitted By:*** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER ***Submitted:***
Title: WORKPLAN APPROVAL LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6007868

Document Type: Site Documents ***Size :***
Document Date: 2/27/2009 ***Submitted By:*** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER ***Submitted:***
Title: COMMENTS ON ASSESSMENT AND REMEDIATION REPORTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=6004821

Document Type: Site Documents ***Size :*** 2,465 KB
Document Date: 1/9/2009 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: FOURTH QUARTER 2008 REPORT REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER VAPOR EXTRACTION AND AIR SPARGING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8840188145/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,293 KB
Document Date: 1/7/2009 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: FOURTH QUARTER 2008 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3566648721/T0606599142.PDF

Document Type: Site Documents ***Size :***
Document Date: 12/2/2008 ***Submitted By:*** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER ***Submitted:***
Title: REMEDIAL PROGRESS REPORT REVIEW
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=5995080

Document Type: Site Documents ***Size :*** 1,439 KB
Document Date: 10/2/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER INITIATION OF VAPOR EXTRACTION AND AIR SPARGE SYSTEM
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6745819568/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,062 KB
Document Date: 9/26/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: THIRD QUARTER 2008 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4246841907/T0606599142.PDF

Document Type: Site Documents ***Size :*** 1,611 KB
Document Date: 8/4/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REMEDIAL PROGRESS REPORT ***Submitted:***
Title: REMEDIATION OF PETROLEUM IMPACTED SOIL AND GROUNDWATER INITIATION OF VAPOR EXTRACTION AND AIR SPARGE SYSTEM
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1471404135/T0606599142.PDF

Document Type: Site Documents ***Size :*** 704 KB
Document Date: 6/20/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REPORTS - REMEDIAL ACTION RPT. ***Submitted:***
Title: REPORT FOR INSTALLATION OF NESTED VAPOR EXTRACTION WELL VE1
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4719485223/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 716 KB
Document Date: 6/18/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: SECOND QUARTER 2008 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4474339365/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 728 KB
Document Date: 5/19/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***

Title: REPORT FOR GROUNDWATER MONITORING WELL INSTALLATION 5/12/08
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4798216104/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 379 KB
Document Date: 5/14/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7497267782/T0606599142.PDF

Document Type: Site Documents ***Size :*** 327 KB
Document Date: 5/14/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REPORTS - OTHER ***Submitted:***
Title: REPORT FOR INSTALLATION OF AIR SPARGE WELL AS1
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2849240958/T0606599142.PDF

Document Type: Site Documents ***Size :*** 1,448 KB
Document Date: 5/14/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: REPORTS - REMEDIAL ACTION RPT. ***Submitted:***
Title: REPORT FOR 30-DAY VAPOR EXTRACTION AND AIR SPARGE PILOT TEST AND RECOMMENDATIONS FOR FULL-SCALE VE/AS REMEDIATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8110676646/T0606599142.PDF

Document Type: Site Documents ***Size :*** 198 KB
Document Date: 5/12/2008 ***Submitted By:*** DAVE SCHULTZ (AUTH_RP)
Type: WELL INSTALLATION REPORT ***Submitted:***
Title: WORKPLAN FOR INSTALLATION OF VAPOR EXTRACTION WELLS VE1S AND VE1D
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6317627429/T0606599142.PDF

Document Type: Site Documents ***Size :***
Document Date: 5/7/2008 ***Submitted By:*** ROSE SCOTT (REGULATOR)
Type: STAFF LETTER ***Submitted:***
Title: REVIEW OF INTERIM REMEDIAL PROGRESS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606599142&enforcement_id=5962907

Document Type: Monitoring Reports ***Size :*** 1,121 KB
Document Date: 3/31/2008 ***Submitted By:*** J. TIM HERSCH (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: GROUNDWATER MONITORING REPORT 6/5/06
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6859923422/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,121 KB
Document Date: 3/31/2008 ***Submitted By:*** J. TIM HERSCH (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: GROUNDWATER MONITORING REPORT 6/5/06
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3862139642/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,121 KB
Document Date: 3/31/2008 ***Submitted By:*** J. TIM HERSCH (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: GROUNDWATER MONITORING REPORT 6/5/06
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3992506265/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,302 KB
Document Date: 3/31/2008 ***Submitted By:*** J. TIM HERSCH (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: GROUNDWATER MONITORING REPORT 10/24/06
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1503100335/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,310 KB
Document Date: 3/24/2008 ***Submitted By:*** J. TIM HERSCH (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: GROUNDWATER MONITORING REPORT 1/16/07
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5441424310/T0606599142.PDF

Document Type: Monitoring Reports ***Size :*** 1,643 KB
Document Date: 3/24/2008 ***Submitted By:*** J. TIM HERSCH (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: GROUNDWATER MONITORING REPORT 4/30/07
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2061205804/T0606599142.PDF

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Document Type: Monitoring Reports
Document Date: 3/7/2008
Type: MONITORING REPORT - QUARTERLY
Title: GROUNDWATER MONITORING REPORT 7/27/07
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5819672107/T0606599142.PDF
Size : 1,666 KB
Submitted By: J. TIM HERSCH (AUTH_RP)
Submitted:

Document Type: Site Documents
Document Date: 3/7/2008
Type: REPORTS - INVESTIGATION RPT.
Title: GROUNDWATER INVESTIGATION GEOLOGIC REPORT 4/7/06
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8422413706/T0606599142.PDF
Size : 2,282 KB
Submitted By: J. TIM HERSCH (AUTH_RP)
Submitted:

9	5 of 7	NNE	0.16 / 844.33	1,559.54 / 7	FLITE CHIEF 22144 ALESSANDRO PEPPER EDGEMONT CA 92508	HHSS

County: Riverside
Tank Details Microfiche: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001f689.pdf

---

9	6 of 7	NNE	0.16 / 844.33	1,559.54 / 7	FLITE CHIEF 22144 ALESSANDRO EDGEMONT CA	HIST TANK

Owner Name: FLITE CHIEF, INC.
Owner Street: 1664 COTEAU DR.
Owner City: RIVERSIDE
Owner State: CA
Owner Zip: 92504
No of Containers: 3
County: RIVERSIDE
Facility State: CA
Facility Zip: 92508

9	7 of 7	NNE	0.16 / 844.33	1,559.54 / 7	FLITE CHIEF 22144 ALESSANDRO BLVD MORENO VALLEY CA	UST SWEEPS

C C: A33-000-56844
BOE: 44-018385
Comp: 56844
Status: ACTIVE
No of Tanks: 3
Jurisdict: RIVERSIDE COUNTY
Agency: ENVIRONMENTAL HEALTH - U.S.T.
Phone:
D Filename: SITE16A
Page No: 58
County: RIVERSIDE
State : CA
Zip: 92508
Latitude: 33.916896
Longitude: -117.276653
Georesult: S5HPNTSC-A

Tank Details

Tank ID: 000003
O Tank ID: 000503
SWRCB No: 33-000-056844-000003
Removed:
Installed:
A Date: 10-29-92
Capac: 7500
Tank Use: M.V. FUEL
S Contain:
Stg: P
Storage :
Storag Type: PRODUCT
P Contain:
Content: REG UNLEADED
ONA:
D File Name: TANK16A

Tank Details

Tank ID: 000002
O Tank ID: 000503
SWRCB No: 33-000-056844-000002
Removed:
Installed:
A Date: 10-29-92
S Contain:
Stg: P
Storage :
Storag Type: PRODUCT
P Contain:
Content: REG UNLEADED

Capac:	9940	**ONA:**	
Tank Use:	M.V. FUEL	**D File Name:**	TANK16A

Tank Details

Tank ID:	000001	**S Contain:**	
O Tank ID:	000503	**Stg:**	P
SWRCB No:	33-000-056844-000001	**Storage :**	
Removed:		**Storag Type:**	PRODUCT
Installed:		**P Contain:**	
A Date:	10-29-92	**Content:**	LEADED
Capac:	9940	**ONA:**	
Tank Use:	M.V. FUEL	**D File Name:**	TANK16A

10	1 of 1	NW	0.17 / 892.36	1,546.49 / -6	**INDUSTRIAL PARTS INC** **21921 ALLESANDRO** **MORENO VALLEY CA 92553**	RCRA SQG

EPA Handler ID:	CAD981970502
Gen Status Universe:	Small Quantity Generator
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	21921 ALLESANDRO , , MORENO VALLEY , CA, 92360 , US
Contact Phone No and Ext:	714-656-3585
Contact Email:	
Contact Country:	US
County Name:	RIVERSIDE
EPA Region:	09
Land Type:	Other
Receive Date:	19870521
Location Latitude:	33.916733
Location Longitude:	-117.280422

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	19870521
Handler Name:	INDUSTRIAL PARTS INC
Federal Waste Generator Code:	2
Generator Code Description:	Small Quantity Generator
Source Type:	Notification

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Private	***Street 1:***	NOT REQUIRED
Name:	INDUSTRIAL PARTS	***Street 2:***	
Date Became Current:		***City:***	NOT REQUIRED
Date Ended Current:		***State:***	ME
Phone:	415-555-1212	***Country:***	
Source Type:	Notification	***Zip Code:***	99999
Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Private	***Street 1:***	NOT REQUIRED
Name:	NOT REQUIRED	***Street 2:***	
Date Became Current:		***City:***	NOT REQUIRED
Date Ended Current:		***State:***	ME
Phone:	415-555-1212	***Country:***	
Source Type:	Notification	***Zip Code:***	99999

11	*1 of 1*	*NNE*	*0.17 / 921.49*	*1,559.51 / 7*	***AILENE & EDMUND KOTERWAS*** ***13965 PEPPER STREET*** ***MORENO VALLEY CA 92553***	***RCRA NON GEN***

EPA Handler ID:	CAC003123787
Gen Status Universe:	No Report
Contact Name:	STEVE WILKINSON
Contact Address:	14177 FREDERICK ST. , , MORENO VALLEY , CA, 92552 ,
Contact Phone No and Ext:	951-413-3357
Contact Email:	AMBERMARIE.GREENAWALT@CALBAPTIST.EDU
Contact Country:	
County Name:	RIVERSIDE
EPA Region:	09
Land Type:	
Receive Date:	20210609
Location Latitude:	
Location Longitude:	

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Receive Date: 20210609
Handler Name: AILENE & EDMUND KOTERWAS
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: STEVE WILKINSON
Date Became Current:
Date Ended Current:
Phone: 951-413-3357
Source Type: Implementer
Street No:
Street 1: 14177 FREDERICK ST.
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92552

Owner/Operator Ind: Current Owner
Type: Other
Name: AILENE & EDMUND KOTERWAS
Date Became Current:
Date Ended Current:
Phone: 951-413-3357
Source Type: Implementer
Street No:
Street 1: 13965 PEPPER STREET
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553

12	1 of 5	SE	0.18 / 930.52	1,553.52 / 1	Collision Center of Moreno Valley 14441 Commerce Center Dr Moreno Valley CA 92553	DELISTED COUNTY

Original Source Facility ID:
Original Source Name: Riverside County Disclosure Facility List
Record Date: 10-JUN-2015

12	2 of 5	SE	0.18 / 930.52	1,553.52 / 1	COLLISION CENTER OF M30ENO VALLEY 14441 COMMERCE CENTER DR BLDG 'B' M30ENO VALLEY CA 92553	EMISSIONS

2015 Criteria Data

Facility ID: 151491
Facility SIC Code: 7532
CO: 33
Air Basin: SC
District: SC
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TOGT: .2543933788824779836015791071970847251746
ROGT: .25150562
COT:
NOXT:
SOXT:
PMT:
PM10T:

2015 Toxic Data

Facility ID: 151491
Facility SIC Code: 7532
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
12	3 of 5	SE	0.18 / 930.52	1,553.52 / 1	FIX AUTO MORENO VALLEY 14441 COMMERCE CENTER DR BLDG B MORENO VALLEY CA 92553	EMISSIONS

2016 Toxic Data

Facility ID:	151491	**TS:**	
Facility SIC Code:	7532	**HRA:**	
CERR CODE:		**CH Index:**	
COID:	RIV	**AH Index:**	
CO:	33	**Air Basin:**	SC
DISN:	SOUTH COAST AQMD	**District:**	SC
CHAPIS:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
12	4 of 5	SE	0.18 / 930.52	1,553.52 / 1	FIX AUTO MORENO VALLEY 14441 COMMERCE CENTER DR STE B MORENO VALLEY CA 92553	RCRA NON GEN

EPA Handler ID:	CAL000318605
Gen Status Universe:	No Report
Contact Name:	SELVI RIZK PRESIDENT
Contact Address:	14441 COMMERCE CTR DR STE B , , MORENO VALLEY , CA, 92553 ,
Contact Phone No and Ext:	951-656-3600
Contact Email:	TCALEY@GMAIL.COM
Contact Country:	
County Name:	RIVERSIDE
EPA Region:	09
Land Type:	
Receive Date:	20070413
Location Latitude:	33.911179
Location Longitude:	-117.274465

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20070413

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Handler Name: FIX AUTO MORENO VALLEY
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: SELVI RIZK PRESIDENT
Date Became Current:
Date Ended Current:
Phone: 951-656-3600
Source Type: Implementer
Street No:
Street 1: 14441 COMMERCE CTR DR STE B
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553

Owner/Operator Ind: Current Owner
Type: Other
Name: SELVI RIZK
Date Became Current:
Date Ended Current:
Phone: 951-656-3600
Source Type: Implementer
Street No:
Street 1: 14441 COMMERCE CTR DR STE B
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553-0000

12	5 of 5	SE	0.18 / 930.52	1,553.52 / 1	FIX AUTO MORENO VALLEY 14441 COMMERCE CENTER DR BLDG 'B' MORENO VALLEY CA 92553	EMISSIONS

2017 Toxic Data

Facility ID: 151491
Facility SIC Code: 7532
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2018 Toxic Data

Facility ID: 151491
Facility SIC Code: 7532
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2019 Toxic Data

CO: 33
Air Basin: SC
Faccility ID: 151491
District: SC
Facility SIC Code: 7532
COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:
TS:
Health Risk Asmt:
NonCncrChrnicHazInd:
NonCncrActeHazInd:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
13	1 of 4	NW	0.18 / 944.09	1,545.60 / -7	BALDWINS AUTOMOTIVE 21891 ALESSANDRO BLVD MORENO VALLEY CA 92553	RCRA SQG

EPA Handler ID: CAR000078865
Gen Status Universe: Small Quantity Generator
Contact Name: STEVE BARRON
Contact Address: 21891 ALESSANDRO BLVD , , MORENO VALLEY , CA, 92388 , US
Contact Phone No and Ext: 909-653-7355
Contact Email:
Contact Country: US
County Name: RIVERSIDE
EPA Region: 09
Land Type: Private
Receive Date: 20000727
Location Latitude: 33.916722
Location Longitude: -117.281194

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20000727
Handler Name: BALDWINS AUTOMOTIVE
Federal Waste Generator Code: 2
Generator Code Description: Small Quantity Generator
Source Type: Notification

Waste Code Details

Hazardous Waste Code: D000
Waste Code Description: DESCRIPTION

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D039
Waste Code Description: TETRACHLOROETHYLENE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Private	***Street 1:***	21891 ALESSANDRO BLVD
Name:	BALDWINS AUTOMOTIVE	***Street 2:***	
Date Became Current:		***City:***	MORENO VALLEY
Date Ended Current:		***State:***	CA
Phone:	909-653-7355	***Country:***	
Source Type:	Notification	***Zip Code:***	92388

13	*2 of 4*	*NW*	*0.18 / 944.09*	*1,545.60 / -7*	***Baldwin Automotive*** ***21891 Alessandro Blvd*** ***Moreno Valley CA 92553***	***DELISTED COUNTY***

Original Source Facility ID:
Original Source Name: Riverside County Disclosure Facility List
Record Date: 10-JUN-2015

13	*3 of 4*	*NW*	*0.18 / 944.09*	*1,545.60 / -7*	***MY TRAN E SHOP LLC*** ***21891 ALESSANDRO BLVD*** ***MORENO VALLEY CA 92553***	***RCRA NON GEN***

EPA Handler ID: CAL000412568
Gen Status Universe: No Report
Contact Name: MICHELLE REY
Contact Address: 21891 ALESSANDRO BLVD , , MORENO VALLEY , CA, 92553 ,
Contact Phone No and Ext: 951-243-7675
Contact Email: MYTRANESHOP@YAHOO.COM
Contact Country:
County Name: RIVERSIDE
EPA Region: 09
Land Type:
Receive Date: 20151120
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Receive Date: 20151120
Handler Name: MY TRAN E SHOP LLC
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: MICHELLE REY
Date Became Current:
Date Ended Current:
Phone: 951-243-7675
Source Type: Implementer
Street No:
Street 1: 14205 CRYSTAL VIEW TERR
Street 2:
City: RIVERSIDE
State: CA
Country:
Zip Code: 92508

Owner/Operator Ind: Current Operator
Type: Other
Name: MICHELLE REY
Date Became Current:
Date Ended Current:
Phone: 951-243-7675
Source Type: Implementer
Street No:
Street 1: 21891 ALESSANDRO BLVD
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553

13	4 of 4	NW	0.18 / 944.09	1,545.60 / -7	BALDWIN AUTO INC 21891 ALESSANDRO BLVD MORENO VALLEY CA	UST SWEEPS

C C: A33-000-1837
BOE:
Comp: 1837
Status: ACTIVE
No of Tanks: 1
Jurisdict: RIVERSIDE COUNTY
Agency: ENVIRONMENTAL HEALTH - U.S.T.
Phone:
D Filename: SITE16A
Page No: 58
County: RIVERSIDE
State : CA
Zip: 92388
Latitude: 33.916694
Longitude: -117.280715
Georesult: S5HPNTSC-A

Tank Details

Tank ID: 000001
O Tank ID:
SWRCB No: 33-000-001837-000001
Removed:
Installed:
A Date: 10-21-92
Capac: 10
Tank Use: UNKNOWN
S Contain:
Stg: P
Storage :
Storag Type: PRODUCT
P Contain:
Content: UNKNOWN CONT
ONA:
D File Name: TANK16A

14	1 of 2	NW	0.19 / 1,028.76	1,546.40 / -6	Barons Auto Service 21866 Alessandro Blvd Moreno Valley CA 92553	DELISTED COUNTY

Original Source Facility ID:
Original Source Name: Riverside County Disclosure Facility List
Record Date: 08-Jul-2014

14	2 of 2	NW	0.19 / 1,028.76	1,546.40 / -6	MOJICA SMOG & TIRES 21866 ALESSANDRO BLVD STE.B MORENO VALLEY CA 92553	RCRA NON GEN

EPA Handler ID: CAC003050054
Gen Status Universe: No Report
Contact Name: IVAN MOJICA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Contact Address: 21866 ALESANDRO BLVD STE.B , , MORENO VALLEY , CA, 92553 ,
Contact Phone No and Ext: 951-379-0006
Contact Email: IVANAIRCO2323@GMAIL.COM
Contact Country:
County Name: RIVERSIDE
EPA Region: 09
Land Type:
Receive Date: 20200108
Location Latitude:
Location Longitude:

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20200108
Handler Name: MOJICA SMOG & TIRES
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: VIRGINIA MOJICA
Date Became Current:
Date Ended Current:
Phone: 951-436-8789
Source Type: Implementer
Street No:
Street 1: 21866 ALESANDRO BLVD STE.B
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553

Owner/Operator Ind: Current Operator
Type: Other
Name: IVAN MOJICA
Date Became Current:
Date Ended Current:
Phone: 951-379-0006
Source Type: Implementer
Street No:
Street 1: 21866 ALESANDRO BLVD STE.B
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92553

15	1 of 4	NW	0.22 / 1,135.75	1,545.53 / -7	Charlebois Liquors 21840 Alessandro Blvd	LOP RIVERSIDE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					Moreno Valley CA	

Site ID: 89200
Status Code: 0
Status Desc:
Case Type Code: G
Case Type Desc: GROUNDWATER IS IMPACTED
Closed Code: R
Closed Desc: Case referred to RWQCB or oversight
Employee: Bunchek

---

15 | **2 of 4** | **NW** | **0.22 / 1,135.75** | **1,545.53 / -7** | **CHARLEBOIS LIQUORS**
21840 ALESSANDRO BLVD
MORENO VALLEY CA 92388 | **LUST**

Global ID: T0606500010
Status: COMPLETED - CASE CLOSED
Status Date: 2/28/2013
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download
County: RIVERSIDE
Latitude: 33.9168671
Longitude: -117.2818281

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 083300088T
Local Case No: 89200
Begin Date: 9/26/1986
Lead Agency: SANTA ANA RWQCB (REGION 8)
Local Agency:
CUF Case: NO
Potential Media of Concern: Aquifer used for drinking water supply
How Discovered Description:
Calwater Watershed Name: Santa Ana River - Middle Santa Ana River - Riverside (801.27)
DWR GW Subbasin Name: San Jacinto (8-005)
Disadvantaged Community: Disadvantaged Community
Calenviroscreen Score: 96-100% (highest scores)
Site History:
Potential COC: Gasoline
How Discovered: Nuisance Conditions
Stop Method:
Stop Description:
Case Worker: RS
File Location:

The site is located on Alessandro Boulevard in Moreno Valley near Interstate 215. The water divide between the San Jacinto and Upper Santa Ana watersheds is located immediately to the southwest of the site. The nearest drinking water well is about 4500 feet to the north and upgradient of the site. On September 21, 1986, gasoline was observed seeping out of pavement cracks at the surface near the fuel dispensers. On October 1, 1986, an unauthorized release report was filed for a regular unleaded gasoline line leak and the system was shut down for repairs. A January 15, 1987 report prepared by Pioneer Consultants documented the drilling of one slant boring beneath the leaking dispenser. The soil sample at approximately 20 feet below ground surface had the highest concentration of total petroleum hydrocarbons as gasoline (6,600 milligrams per kilogram [mg/kg]) but it was not analyzed for aromatic hydrocarbons. The soil sample at approximately 40 feet contained 3.0 mg/kg of benzene, 24 mg/kg toluene, 11 mg/kg ethyl benzene and 72 mg/kg of xylenes. The boring was backfilled with soil cuttings. On March 21, 1990, Riverside County transferred the case to the Regional Board due to failure to submit reports. On March 30, 1990, ICG Hydrotech, Inc. submitted a report documenting a soil and groundwater contamination investigation that was completed in September 1989. The investigation consisted of drilling five borings (B1 through BS) and converting three of the borings into groundwater monitoring wells (MW1 through MW3). The report stated that water was first encountered at 70 feet and rose approximately 20 feet indicating confined or semi-confined conditions. Borings B2 and B3 were backfilled with bentonite. Depth to water measurements on October 23, 1989 ranged from 58.84 to 59.44 feet below the tops of the casings. According to the boring logs in the March 30, 1990 ICG report, for MW1 the well screen was placed from 69.5 to 99.5 feet below surface, and for MW2 and MW3, the well screens were set from 60 to 90 feet below surface. Therefore, static water levels have always been above the well screens at this site. On March 29, 1990, two 10,000-gallon tanks were removed and appeared in good condition with no petroleum contaminants detected in soil samples from beneath tanks. On April 2, 1990 the fuel lines were removed and a 2 foot by 10 foot area of contaminated soil, based on elevated photo-ionization detector (PI D) readings was observed. However, no samples were collected from the fuel line area and no soil was removed. The tank removal is documented in the ICG Hydrotech, Inc. report, Summary Report of Findings, Underground Fuel Tanks Removal Soils Observation and Analyses, dated April 20, 1990. A July 11, 1990 report documented the detection of low concentrations of petroleum hydrocarbons in two offsite wells located on a property downgradient and south of the site across Alessandro Boulevard during a third party investigation. The October 5, 1990 Revised Preliminary Draft RAP, prepared by ICG Hydrotech, referenced the installation of an additional well MW4 in September 1990, but did not provide a well log or well completion diagram. The report stated that the well was completed below the confining layer at 70 feet. The static water level in MW4 was measured to be 58 feet below ground surface. An aquifer test report and an informational review of surrounding properties were submitted on February 1, 1991. UV/Peroxide treatment of the 3,100 gallons of groundwater used in the aquifer tests were discharged to the gutter on Alessandro Boulevard. Five rounds of groundwater monitoring were conducted without presenting water level measurement data or maps. The wells were sampled April 5, June 20, and December 6 of 1991, and April 10 and August 18 of 1992. The initial groundwater sample results from October 1989, identified in the table in Section Ill above, remained the highest concentrations detected in samples from wells at the site. After 1992, the wells were not sampled again until December 17, 1998. The results from a groundwater sample collected from well MW2 in 1998 indicated that concentrations of petroleum hydrocarbons had decreased significantly at the site. Benzene had decreased from 7,200 micrograms per liter in October 1989 to 1.9 micrograms per liter in December 1998. However, the sample results were submitted without a professional report. In February 2011, the groundwater levels measured at the site ranged from 28.84 to 29.76 feet below casing reference

points. The well screens for all four wells (70 to 100 feet for MW1 and MW4, and 60 to 90 feet for MW2 and MW3) are far below the current groundwater potentiometric surface. In February 2011, the highest concentrations were generally detected in well MW4, considered the most downgradient well. Due to the significant rise in groundwater elevations over time in this area, the concentrations identified on the table above may not be representative of the worst-case conditions at the site. Therefore, additional assessment was conducted on September 20, 2011, to obtain groundwater data representative of the worstcase conditions and to define the current limits of contamination. The water table was found at 35 to 40 feet below surface during the assessment and groundwater grab samples were collected from the water table using the hydropunch sampling method. The highest concentrations detected are shown on the table of Maximum Documented Concentrations in the After column of the table in Section II above. HP5 was drilled between wells MW1 and MW4 in the vicinity of the former pump island and excavation. Tertiary butyl alcohol (TBA) was detected at the highest concentration in boring HP2, approximately 40 feet west of the dispenser. MtBE was detected at a concentration of 75.2 IJg/1 in HP2. In the three borings 80 feet or more from the center of the plume, benzene did not exceed 15 IJg/1 and MtBE was not detected above laboratory reporting limits.

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 2/28/2013
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 2/28/2013
Action: Closure/No Further Action Letter

Action Type: ENFORCEMENT
Date : 12/17/2012
Action: Notification - Preclosure

Action Type: ENFORCEMENT
Date : 12/17/2012
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 11/14/2012
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 4/27/2012
Action: File Review - Closure

Action Type: RESPONSE
Date : 10/30/2011
Action: Site Assessment Report

Action Type: ENFORCEMENT
Date : 9/13/2011
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 7/12/2011
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 5/11/2011
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 3/29/2011
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 1/13/2011
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 1/4/2011
Action: Staff Letter

Action Type: ENFORCEMENT
Date : 9/9/2010

Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 3/3/2010
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 5/19/2009
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 11/10/2008
Action: File review

Action Type: RESPONSE
Date : 12/31/1998
Action: Correspondence

Action Type: ENFORCEMENT
Date : 6/27/1996
Action: File review

Action Type: Other
Date : 10/1/1986
Action: Leak Reported

Action Type: Other
Date : 9/26/1986
Action: Leak Discovery

Action Type: Other
Date : 9/26/1986
Action: Leak Stopped

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
City: RIVERSIDE
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
Email: rose.scott@waterboards.ca.gov
Phone No: 9513206375

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 2/28/2013

Status: Open - Eligible for Closure
Status Date: 9/25/2012

Status: Open - Site Assessment
Status Date: 8/12/1996

Status: Open - Site Assessment
Status Date: 9/12/1989

Status: Open - Case Begin Date
Status Date: 9/26/1986

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: CHARLEBOIS LIQUORS
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 21840 ALESSANDRO BLVD
City: MORENO VALLEY

WDR File:		**Zip:**	92388
WDR Order:		**County:**	RIVERSIDE
CUF Priority Assig:		**CUF Claim:**	
CUF Amount Paid:			
File Location:			
Designated Beneficial Use:	MUN - Note: Area outside basins not specified-Pot MUN stated.		
Project Oversight Agencies:			
Report Link:	https://geotracker.waterboards.ca.gov/profile_report?global_id=T0606500010		
Cleanup Status Detail:	COMPLETED - CASE CLOSED AS OF 2/28/2013		
Cleanup History Link:	https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0606500010&tabname=regulatoryhistory		
Potential Media of Concern:	AQUIFER USED FOR DRINKING WATER SUPPLY		
User Defined Beneficial Use:			
DWR GW Sub Basin:	San Jacinto (8-005)		
Calwater Watershed Name:	Santa Ana River - Middle Santa Ana River - Riverside (801.27)		
Post Closure Site Management:			
Future Land Use:			
Cleanup Oversight Agencies:	SANTA ANA RWQCB (REGION 8) (LEAD) - CASE #: 083300088T CASEWORKER: ROSE SCOTT RIVERSIDE COUNTY LOP - CASE #: 89200		
Gndwater Monitoring Freque:			
Designated Beneficial Use Desc:	Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply stated.		
Site History:			

The site is located on Alessandro Boulevard in Moreno Valley near Interstate 215. The water divide between the San Jacinto and Upper Santa Ana watersheds is located immediately to the southwest of the site. The nearest drinking water well is about 4500 feet to the north and upgradient of the site.
On September 21, 1986, gasoline was observed seeping out of pavement cracks at the surface near the fuel dispensers. On October 1, 1986, an unauthorized release report was filed for a regular unleaded gasoline line leak and the system was shut down for repairs. A January 15, 1987 report prepared by Pioneer Consultants documented the drilling of one slant boring beneath the leaking dispenser. The soil sample at approximately 20 feet below ground surface had the highest concentration of total petroleum hydrocarbons as gasoline (6,600 milligrams per kilogram [mg/kg]) but it was not analyzed for aromatic hydrocarbons. The soil sample at approximately 40 feet contained 3.0 mg/kg of benzene, 24 mg/kg toluene, 11 mg/kg ethyl benzene and 72 mg/kg of xylenes. The boring was backfilled with soil cuttings.
On March 21, 1990, Riverside County transferred the case to the Regional Board due to failure to submit reports. On March 30, 1990, ICG Hydrotech, Inc. submitted a report documenting a soil and groundwater contamination investigation that was completed in September 1989. The investigation consisted of drilling five borings (B1 through BS) and converting three of the borings into groundwater monitoring wells (MW1 through MW3). The report stated that water was first encountered at 70 feet and rose approximately 20 feet indicating confined or semi-confined conditions. Borings B2 and B3 were backfilled with bentonite. Depth to water measurements on October 23, 1989 ranged from 58.84 to 59.44 feet below the tops of the casings. According to the boring logs in the March 30, 1990 ICG report, for MW1 the well screen was placed from 69.5 to 99.5 feet below surface, and for MW2 and MW3, the well screens were set from 60 to 90 feet below surface. Therefore, static water levels have always been above the well screens at this site.
On March 29, 1990, two 10,000-gallon tanks were removed and appeared in good condition with no petroleum contaminants detected in soil samples from beneath tanks. On April 2, 1990 the fuel lines were removed and a 2 foot by 10 foot area of contaminated soil, based on elevated photo-ionization detector (PI D) readings was observed. However, no samples were collected from the fuel line area and no soil was removed. The tank removal is documented in the ICG Hydrotech, Inc. report, Summary Report of Findings, Underground Fuel Tanks Removal Soils Observation and Analyses, dated April 20, 1990.
A July 11, 1990 report documented the detection of low concentrations of petroleum hydrocarbons in two offsite wells located on a property downgradient and south of the site across Alessandro Boulevard during a third party investigation. The October 5, 1990 Revised Preliminary Draft RAP, prepared by ICG Hydrotech, referenced the installation of an additional well MW4 in September 1990, but did not provide a well log or well completion diagram. The report stated that the well was completed below the confining layer at 70 feet. The static water level in MW4 was measured to be 58 feet below ground surface.
An aquifer test report and an informational review of surrounding properties were submitted on February 1, 1991. UV/Peroxide treatment of the 3,100 gallons of groundwater used in the aquifer tests were discharged to the gutter on Alessandro Boulevard. Five rounds of groundwater monitoring were conducted without presenting water level measurement data or maps. The wells were sampled April 5, June 20, and December 6 of 1991, and April 10 and August 18 of 1992. The initial groundwater sample results from October 1989, identified in the table in Section Ill above, remained the highest concentrations detected in samples from wells at the site.
After 1992, the wells were not sampled again until December 17, 1998. The results from a groundwater sample collected from well MW2 in 1998 indicated that concentrations of petroleum hydrocarbons had decreased significantly at the site. Benzene had decreased from 7,200 micrograms per liter in October 1989 to 1.9 micrograms per liter in December 1998. However, the sample results were submitted without a professional report.
In February 2011, the groundwater levels measured at the site ranged from 28.84 to 29.76 feet below casing

reference points. The well screens for all four wells (70 to 100 feet for MW1 and MW4, and 60 to 90 feet for MW2 and MW3) are far below the current groundwater potentiometric surface. In February 2011, the highest concentrations were generally detected in well MW4, considered the most downgradient well.
Due to the significant rise in groundwater elevations over time in this area, the concentrations identified on the table above may not be representative of the worst-case conditions at the site. Therefore, additional assessment was conducted on September 20, 2011, to obtain groundwater data representative of the worstcase conditions and to define the current limits of contamination. The water table was found at 35 to 40 feet below surface during the assessment and groundwater grab samples were collected from the water table using the hydropunch sampling method. The highest concentrations detected are shown on the table of Maximum Documented Concentrations in the After column of the table in Section II above.
HP5 was drilled between wells MW1 and MW4 in the vicinity of the former pump island and excavation. Tertiary butyl alcohol (TBA) was detected at the highest concentration in boring HP2, approximately 40 feet west of the dispenser. MtBE was detected at a concentration of 75.2 IJg/1 in HP2. In the three borings 80 feet or more from the center of the plume, benzene did not exceed 15 IJg/1 and MtBE was not detected above laboratory reporting limits.

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 2/28/2013

Status: Open - Eligible for Closure
Date : 9/25/2012

Status: Open - Site Assessment
Date : 8/12/1996

Status: Open - Site Assessment
Date : 9/12/1989

Status: Open - Case Begin Date
Date : 9/26/1986

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 2/28/2013
Received Issue Date: 2/28/2013
Action: Closure/No Further Action Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6150738&temptable=ENFORCEMENT
Title Description Comments:

No Further Action Letter

Action Type: Other Regulatory Actions
Action Date: 2/28/2013
Received Issue Date: 2/28/2013
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6150734&temptable=ENFORCEMENT
Title Description Comments:

Closure requirements

Action Type: Other Regulatory Actions
Action Date: 12/17/2012
Received Issue Date: 12/17/2012
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6145173&temptable=ENFORCEMENT
Title Description Comments:

Request for Comments on Draft Closure Summary

Action Type: Notices
Action Date: 12/17/2012
Received Issue Date: 12/17/2012
Action: Notification - Preclosure
Doc Link:
Title Description Comments:

Pre Closure Notification

Action Type: Other Regulatory Actions
Action Date: 11/14/2012
Received Issue Date: 11/14/2012
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

Approval of draft closure summary

Action Type: Other Regulatory Actions
Action Date: 4/27/2012
Received Issue Date: 4/27/2012
Action: File Review - Closure
Doc Link:
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 10/30/2011
Received Issue Date: 10/19/2011
Action: Site Assessment Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500010&doc_id=5728399
Title Description Comments:

Action Type: Other Regulatory Actions
Action Date: 9/13/2011
Received Issue Date: 9/13/2011
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6098425&temptable=ENFORCEMENT
Title Description Comments:

Staff Letter 09/13/2011 Workplan Approval

Action Type: Other Regulatory Actions
Action Date: 7/12/2011
Received Issue Date: 7/12/2011
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

Email correspondence regarding request for groundwater assessment.

Action Type: Other Regulatory Actions
Action Date: 5/11/2011
Received Issue Date: 5/11/2011
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6086631&temptable=ENFORCEMENT
Title Description Comments:

Staff Letter May 11, 2011

Action Type: Other Regulatory Actions

Action Date: 3/29/2011
Received Issue Date: 3/29/2011
Action: Technical Correspondence / Assistance / Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6082119&temptable=ENFORCEMENT
Title Description Comments:

Boring Logs for September 1989 Assessment, Well Construction Details for MW1-MW3 and survey data

Action Type: Other Regulatory Actions
Action Date: 1/13/2011
Received Issue Date: 1/13/2011
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

Spoke with RP on the phone and forwarded emails.

Action Type: Other Regulatory Actions
Action Date: 1/4/2011
Received Issue Date: 1/4/2011
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6073800&temptable=ENFORCEMENT
Title Description Comments:

Staff Letter January 4, 2011

Action Type: Other Regulatory Actions
Action Date: 9/9/2010
Received Issue Date: 9/9/2010
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

Email correspondence to potential consultant

Action Type: Other Regulatory Actions
Action Date: 3/3/2010
Received Issue Date: 3/3/2010
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

Case review summary

Action Type: Other Regulatory Actions
Action Date: 5/19/2009
Received Issue Date: 5/19/2009
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

request for final round of sampling

Action Type: Other Regulatory Actions
Action Date: 11/10/2008
Received Issue Date: 11/10/2008
Action: File review
Doc Link:
Title Description Comments:

Review for closure - request final monitoring event from RP

Action Type: Response Requested - Other
Action Date: 12/31/1998
Received Issue Date: 12/31/1998
Action: Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500010&doc_id=5703143
Title Description Comments:

Charlebois Liquor Groundwater Analytical Results and Background Data

Action Type: Other Regulatory Actions
Action Date: 6/27/1996
Received Issue Date: 6/27/1996
Action: File review
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6381627&temptable=ENFORCEMENT
Title Description Comments:

File Review

Action Type: Leak Action
Action Date: 10/1/1986
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 9/26/1986
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 9/26/1986
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Site Maps (as of May 29, 2021)

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/1819104790/T0606500010.PDF
Size : 200 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Submitted: 10/19/2011*

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents
Document Date: 3/15/2013
Size : 2,596 KB
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Type: WELL DESTRUCTION REPORT
Submitted:
Title: WELL ABANDONMENT REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9063892424/T0606500010.PDF

Document Type: Site Documents
Document Date: 2/28/2013
Size :
Submitted By: ROSE SCOTT (REGULATOR)
Type: CLOSURE/NO FURTHER ACTION LETTER
Submitted:
Title: NO FURTHER ACTION LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6150738

Document Type: Site Documents
Size :
Document Date: 2/28/2013
Submitted By: ROSE SCOTT (REGULATOR)
Type: STAFF LETTER
Submitted:
Title: CLOSURE REQUIREMENTS
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6150734

Document Type: Site Documents
Size :
Document Date: 12/17/2012
Submitted By: ROSE SCOTT (REGULATOR)
Type: STAFF LETTER
Submitted:
Title: REQUEST FOR COMMENTS ON DRAFT CLOSURE SUMMARY
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6145173

Document Type: Site Documents
Size : 1,494 KB
Document Date: 10/12/2011*
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Type: SITE ASSESSMENT REPORT
Submitted:
Title: 10.12.11 GW INVESTIGATION REPORT AND REQUEST FOR LOW RISK CASE CLOSURE
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5326298534/T0606500010.PDF

Document Type: Site Documents
Size :
Document Date: 9/13/2011
Submitted By: ROSE SCOTT (REGULATOR)
Type: STAFF LETTER
Submitted:
Title: STAFF LETTER 09/13/2011 WORKPLAN APPROVAL
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6098425

Document Type: Site Documents
Size : 3,667 KB
Document Date: 8/26/2011
Submitted By: THE REYNOLDS GROUP - TUSTIN (AUTH_RP)
Type: SOIL AND WATER INVESTIGATION WORKPLAN
Submitted:
Title: WORKPLAN FOR ADDITIONAL GROUNDWATER INVESTIGATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8883387267/T0606500010.PDF

Document Type: Site Documents
Size :
Document Date: 5/11/2011
Submitted By: ROSE SCOTT (REGULATOR)
Type: STAFF LETTER
Submitted:
Title: STAFF LETTER MAY 11, 2011
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6086631

Document Type: Site Documents
Size :
Document Date: 3/29/2011
Submitted By: ROSE SCOTT (REGULATOR)
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER
Submitted:
Title: BORING LOGS FOR SEPTEMBER 1989 ASSESSMENT, WELL CONSTRUCTION DETAILS FOR MW1-MW3 AND SURVEY DATA
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6082119

Document Type: Monitoring Reports
Size : 2,084 KB
Document Date: 2/16/2011
Submitted By: ROBERT HANSEN (AUTH_RP)
Type: MONITORING REPORT - OTHER
Submitted:
Title: 11.02.16 GROUNDWATER SAMPLING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2134485900/T0606500010.PDF

Document Type: Site Documents
Size :
Document Date: 1/4/2011
Submitted By: ROSE SCOTT (REGULATOR)
Type: STAFF LETTER
Submitted:
Title: STAFF LETTER JANUARY 4, 2011
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6073800

Document Type: Site Documents
Size :
Document Date: 12/31/1998
Submitted By: ROSE SCOTT (REGULATOR)
Type: CORRESPONDENCE
Submitted:
Title: CHARLEBOIS LIQUOR GROUNDWATER ANALYTICAL RESULTS AND BACKGROUND DATA
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&document_id=5703143

Document Type: Site Documents
Size :
Document Date: 6/27/1996
Submitted By: ZACHARY RICCIARDULLI (REGULATOR)
Type: FILE REVIEW
Submitted:
Title: FILE REVIEW

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Title Link:		https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500010&enforcement_id=6381627				
15	3 of 4	NW	0.22 / 1,135.75	1,545.53 / -7	CHARLEBOIS LIOUORS 21840 ALESSANDRO BLVD MORENO VALLEY CA 92508	HHSS

County: Riverside
Tank Details Microfiche: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001f9de.pdf

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
15	4 of 4	NW	0.22 / 1,135.75	1,545.53 / -7	CHARLEBOIS LIQUORS 21840 ALESSANDRO BLVD. MORENO VALLEY CA	HIST TANK

Owner Name: TAE HYUN & YOUNG SOOK LEE
Owner Street: 5030 PEAR BLOSSOM DR.
Owner City: RIVERSIDE
Owner State: CA
Owner Zip: 92507
No of Containers: 2
County: RIVERSIDE
Facility State: CA
Facility Zip: 92508

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
16	1 of 2	SE	0.22 / 1,139.95	1,553.52 / 1	ALL MAGIC PAINT & BODY 14461 COMMERCE CENTER DR. MORENO VALLEY CA 92860	RCRA NON GEN

EPA Handler ID: CAL000437371
Gen Status Universe: No Report
Contact Name: RAFFI AVERYAN
Contact Address: 1461 HAMMER AVE , , NORCO , CA, 92860 ,
Contact Phone No and Ext: 951-300-5909
Contact Email: RAFFI@ALLMAGICAUTO.COM
Contact Country:
County Name: RIVERSIDE
EPA Region: 09
Land Type:
Receive Date: 20180706
Location Latitude: 33.910645
Location Longitude: -117.274456

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Sequence No: 1
Receive Date: 20180706
Handler Name: ALL MAGIC PAINT & BODY
Source Type: Implementer
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind: Current Owner
Type: Other
Name: ALL MAGIC MV (CORP)
Date Became Current:
Date Ended Current:
Phone: 951-300-8909
Source Type: Implementer

Street No:
Street 1: 14461 COMMERCE CENTER DR.
Street 2:
City: MORENO VALLEY
State: CA
Country:
Zip Code: 92860

Owner/Operator Ind: Current Operator
Type: Other
Name: RAFFI AVERYAN
Date Became Current:
Date Ended Current:
Phone: 951-300-5909
Source Type: Implementer

Street No:
Street 1: 1461 HAMMER AVE
Street 2:
City: NORCO
State: CA
Country:
Zip Code: 92860

16	2 of 2	SE	0.22 / 1,139.95	1,553.52 / 1	ALL MAGIC PAINT & BODY 14461 COMMERCE CENTER DR MORENO VALLEY CA 92553	EMISSIONS

2018 Toxic Data

Facility ID: 187471
Facility SIC Code: 7535
CO: 33
Air Basin: SC
District: SC
TS:
Health Risk Asmt:
Non-Cancer Chronic Haz Ind:
Non-Cancer Acute Haz Ind:

COID: RIV
DISN: SOUTH COAST AQMD
CHAPIS:
CERR Code:

2019 Toxic Data

CO: 33
Air Basin: SC
Faccility ID: 187471
District: SC
Facility SIC Code: 7535

COID: RIV
DISN: SOUTH COAST AQMD

CHAPIS:
CERR Code:
TS:
Health Risk Asmt:
NonCncrChrnicHazInd :
NonCncrActeHazInd:

17	1 of 1	WNW	0.23 / 1,203.03	1,542.52 / -10	ANDLAND PROPERTIES 14044 OLD 215 FRONTAGE RD MORENO VALLEY CA 92553	RCRA SQG

EPA Handler ID: CAP000319004
Gen Status Universe: Small Quantity Generator
Contact Name: TERESA ARMSTRONG
Contact Address: P.O. BOX 1232 , , SOLANA BEACH , CA, 92075 , US
Contact Phone No and Ext: 703-577-0949
Contact Email: TERESAMARMSTRONG@COMCAST.NET

Contact Country:	US
County Name:	RIVERSIDE
EPA Region:	09
Land Type:	Private
Receive Date:	20210204
Location Latitude:	33.916552
Location Longitude:	-117.280722

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20210204
Handler Name:	ANDLAND PROPERTIES
Federal Waste Generator Code:	2
Generator Code Description:	Small Quantity Generator
Source Type:	Notification

Waste Code Details

Hazardous Waste Code:	343
Waste Code Description:	Unspecified organic liquid mixture
Hazardous Waste Code:	D039
Waste Code Description:	TETRACHLOROETHYLENE

Owner/Operator Details

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Private	***Street 1:***	P.O. BOX 1232
Name:	ANDLAND PROPERTIES, LLC.	***Street 2:***	
Date Became Current:	20210127	***City:***	SOLANA BEACH
Date Ended Current:		***State:***	CA
Phone:	703-577-0949	***Country:***	US
Source Type:	Notification	***Zip Code:***	92075
Owner/Operator Ind:	Current Owner	***Street No:***	21921
Type:	Private	***Street 1:***	ALESSANDRO BLVD
Name:	C5 PROPERTIES, LLC	***Street 2:***	
Date Became Current:	20210127	***City:***	MORENO VALLEY
Date Ended Current:		***State:***	CA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Phone: 951-257-3687
Source Type: Notification
Country: US
Zip Code: 92553

---

18 *1 of 4* *WNW* *0.23 / 1,208.64* *1,543.92 / -9*

MORENO VALLEY RECYCLING 4
21801 ALESSANDRO BLVD
MORENO VALLEY CA 92553

RECYCLING

Cert ID: RC13093
Operation: 08/18/06
Rural:
Organization:
Aluminium:
Glass:
Plastic:
Bimetal:
Agency:
Grand Fath:
Cert Status: INVALID
Operatione: 11/01/06
Monday Hou:
Tuesday Ho:
Wednesday:
Thursday H:
Friday Hou:
Saturday H:
Sunday Hou:
Mailing Ad:
Mailing Ci:
Mailing St:
Mailing Zi:
Phone No:
Website:
Email:
Hours of Ope:
County: RIVERSIDE

---

18 *2 of 4* *WNW* *0.23 / 1,208.64* *1,543.92 / -9*

MORENO VALLEY RECYCLING #4
21801 ALESSANDRO BLVD
MORENO VALLEY CA 92553

RECYCLING

Cert ID: RC13558
Operation: 11/16/07
Rural:
Organization:
Aluminium:
Glass:
Plastic:
Bimetal:
Agency:
Grand Fath:
Cert Status: INVALID
Operatione: 01/17/08
Monday Hou:
Tuesday Ho:
Wednesday:
Thursday H:
Friday Hou:
Saturday H:
Sunday Hou:
Mailing Ad:
Mailing Ci:
Mailing St:
Mailing Zi:
Phone No:
Website:
Email:
Hours of Ope:
County: RIVERSIDE

---

18 *3 of 4* *WNW* *0.23 / 1,208.64* *1,543.92 / -9*

MORENO VALLEY RECYCLING CENTER #4
21801 ALESSANDRO BLVD
MORENO VALLEY CA 92553

RECYCLING

Cert ID: RC14669
Operation: 12/16/09
Rural:
Organization:
Aluminium:
Glass:
Plastic:
Bimetal:
Agency:
Grand Fath:
Cert Status: CERTIFIED
Operatione:
Monday Hou:
Tuesday Ho:
Wednesday:
Thursday H:
Friday Hou:
Saturday H:
Sunday Hou:
Mailing Ad:
Mailing Ci:
Mailing St:
Mailing Zi:
Phone No:
Website:
Email:
Hours of Ope:
County: RIVERSIDE

---

18 *4 of 4* *WNW* *0.23 /* *1,543.92 /* ***MORENO VALLEY RECYCLING #4*** ***RECYCLING***

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
			1,208.64	-9	21801 ALESSANDRO BLVD MORENO VALLEY CA 92553	

Cert ID:	RC13217	**Wednesday:**	
Operation:	01/22/07	**Thursday H:**	
Rural:		**Friday Hou:**	
Organization:		**Saturday H:**	
Aluminium:		**Sunday Hou:**	
Glass:		**Mailing Ad:**	
Plastic:		**Mailing Ci:**	
Bimetal:		**Mailing St:**	
Agency:		**Mailing Zi:**	
Grand Fath:		**Phone No:**	
Cert Status:	CERTIFIED	**Website:**	
Operatione:		**Email:**	
Monday Hou:		**Hours of Ope:**	
Tuesday Ho:		**County:**	RIVERSIDE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
19	1 of 1	SSE	0.25 / 1,295.96	1,551.48 / -1	ARCO AM/PM TESORO REFINING & MARKETING C 22330 CACTUS AVE MORENO VALLEY CA 92553	EMISSIONS

2018 Toxic Data

Facility ID:	187538	**COID:**	RIV
Facility SIC Code:	9999	**DISN:**	SOUTH COAST AQMD
CO:	33	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
20	1 of 4	ENE	0.25 / 1,319.48	1,562.40 / 10	BEN CLYMER'S 'THE BODY SHOP' 22335 ALESSANDRO MORENO VALLEY CA 92553	EMISSIONS

2015 Toxic Data

Facility ID:	143444	**COID:**	RIV
Facility SIC Code:	9999	**DISN:**	SOUTH COAST AQMD
CO:	33	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2016 Criteria Data

Facility ID:	143444	**CERR CODE:**	
Facility SIC Code:	7532	**TOGT:**	.19342755476839427577860431989277482629 15
CO:	33	**ROGT:**	.171094
Air Basin:	SC	**COT:**	.00458
District:	SC	**NOXT:**	.017
COID:	RIV	**SOXT:**	.0000784

DISN:	SOUTH COAST AQMD	***PMT:***	.00220426
CHAPIS:		***PM10T:***	.0021062896

2016 Toxic Data

Facility ID:	143444	***TS:***	
Facility SIC Code:	7532	***HRA:***	
CERR CODE:		***CH Index:***	
COID:	RIV	***AH Index:***	
CO:	33	***Air Basin:***	SC
DISN:	SOUTH COAST AQMD	***District:***	SC
CHAPIS:			

2017 Criteria Data

Facility ID:	143444	***CERR Code:***	
Facility SIC Code:	7532	***TOGT:***	.5077293924589960113241600901676462247582
CO:	33	***ROGT:***	.481378
Air Basin:	SC	***COT:***	.0069
District:	SC	***NOXT:***	.02
COID:	RIV	***SOXT:***	.0001182
DISN:	SOUTH COAST AQMD	***PMT:***	.004781
CHAPIS:		***PM10T:***	.004575

2017 Toxic Data

Facility ID:	143444	***COID:***	RIV
Facility SIC Code:	7532	***DISN:***	SOUTH COAST AQMD
CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2018 Criteria Data

Facility ID:	143444	***CERR Code:***	
Facility SIC Code:	9999	***TOGT:***	.6800176224599813358951772179778656399036
CO:	33	***ROGT:***	.64591665
Air Basin:	SC	***COT:***	.00645074
District:	SC	***NOXT:***	.0239599
COID:	RIV	***SOXT:***	.000110584
DISN:	SOUTH COAST AQMD	***PMT:***	.00571093
CHAPIS:		***PM10T:***	.0055377848

2018 Toxic Data

Facility ID:	143444	***COID:***	RIV
Facility SIC Code:	9999	***DISN:***	SOUTH COAST AQMD
CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

2019 Toxic Data

CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
Faccility ID:	143444	***TS:***	
District:	SC	***Health Risk Asmt:***	
Facility SIC Code:	9999	***NonCncrChrnicHazInd :***	
COID:	RIV	***NonCncrActeHazInd:***	
DISN:	SOUTH COAST AQMD		

20	*2 of 4*	*ENE*	*0.25 / 1,319.48*	*1,562.40 / 10*	***BEN CLYMER'S THE BODY SHOP 22335 ALESSANDRO MORENO VALLEY CA 92553***	***EMISSIONS***

20	*3 of 4*	*ENE*	*0.25 / 1,319.48*	*1,562.40 / 10*	***BEN CLYMER'STHE BODY SHOP 22335 ALESSANDRO MORENO VALLEY CA 92553***	***EMISSIONS***

2006 Criteria Data

Facility ID:	143444	***CERR Code:***	
Facility SIC Code:	7532	***TOGT:***	2.025360675497292879410446443651049298 37
CO:	33	***ROGT:***	1.84
Air Basin:	SC	***COT:***	.008
District:	SC	***NOXT:***	.031
COID:	RIV	***SOXT:***	0
DISN:	SOUTH COAST AQMD	***PMT:***	.002
CHAPIS:		***PM10T:***	.002

2006 Toxic Data

Facility ID:	143444	***COID:***	RIV
Facility SIC Code:	7532	***DISN:***	SOUTH COAST AQMD
CO:	33	***CHAPIS:***	
Air Basin:	SC	***CERR Code:***	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2007 Criteria Data

Facility ID:	143444	***CERR Code:***	
Facility SIC Code:	7532	***TOGT:***	2.025360675497292879410446443651049298 37
CO:	33	***ROGT:***	1.84
Air Basin:	SC	***COT:***	.008
District:	SC	***NOXT:***	.031
COID:	RIV	***SOXT:***	0
DISN:	SOUTH COAST AQMD	***PMT:***	.002
CHAPIS:		***PM10T:***	.002

2007 Toxic Data

Facility ID:	143444	***COID:***	RIV
Facility SIC Code:	7532	***DISN:***	SOUTH COAST AQMD

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

CO:	33	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

2012 Criteria Data

Facility ID:	143444	**CERR Code:**	
Facility SIC Code:	7532	**TOGT:**	. 24153418365826692462452712400817298118 22
CO:	33	**ROGT:**	.19672
Air Basin:	SC	**COT:**	.00514
District:	SC	**NOXT:**	.01912
COID:	RIV	**SOXT:**	.00012
DISN:	SOUTH COAST AQMD	**PMT:**	.06305
CHAPIS:		**PM10T:**	.060572

2012 Toxic Data

Facility ID:	143444	**COID:**	RIV
Facility SIC Code:	7532	**DISN:**	SOUTH COAST AQMD
CO:	33	**CHAPIS:**	
Air Basin:	SC	**CERR Code:**	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

20	*4 of 4*	*ENE*	*0.25 / 1,319.48*	*1,562.40 / 10*	***BEN CLYMERS THE BODYSHOP MV INC 22335 ALESSANDRO BLVD MORENO VALLEY CA 92553-8300***	***RCRA NON GEN***

EPA Handler ID:	CAL000296565
Gen Status Universe:	No Report
Contact Name:	LORENZO DANIELS
Contact Address:	12295 MAGNOLIA AVENUE , , RIVERSIDE , CA, 92503-0000 ,
Contact Phone No and Ext:	951-734-4373
Contact Email:	LORENZO@BENCLYMERS.COM
Contact Country:	
County Name:	RIVERSIDE
EPA Region:	09
Land Type:	
Receive Date:	20050715
Location Latitude:	33.916854
Location Longitude:	-117.272641

Violation/Evaluation Summary

Note:	NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No

Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20050715
Handler Name:	BEN CLYMERS THE BODYSHOP MV INC
Source Type:	Implementer
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	32247 DUNLAP BLVD
Name:	BEN CLYMER	***Street 2:***	
Date Became Current:		***City:***	YUCAIPA
Date Ended Current:		***State:***	CA
Phone:	909-795-6699	***Country:***	
Source Type:	Implementer	***Zip Code:***	92399-0000
Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	12295 MAGNOLIA AVENUE
Name:	LORENZO DANIELS	***Street 2:***	
Date Became Current:		***City:***	RIVERSIDE
Date Ended Current:		***State:***	CA
Phone:	951-734-4373	***Country:***	
Source Type:	Implementer	***Zip Code:***	92503-0000

21	***1 of 2***	***ESE***	***0.31 / 1,615.31***	***1,555.61 / 3***	***MENLO RECYCLING CENTER 22405 GOLDEN CREST DR BLDG A MORENO VALLEY CA 92553***	***RECYCLING***

Cert ID:	RC248793.001	***Wednesday:***	8:00 am - 5:00 pm
Operation:	8/3/2016	***Thursday H:***	8:00 am - 5:00 pm
Rural:	N	***Friday Hou:***	8:00 am - 5:00 pm
Organization:	D & N MENLO NATIONAL CORPORATION	***Saturday H:***	8:00 am - 3:00 pm
Aluminium:	Yes	***Sunday Hou:***	CLOSED
Glass:	Yes	***Mailing Ad:***	23325 WESTWOOD ST
Plastic:	Yes	***Mailing Ci:***	GRAND TERRACE
Bimetal:	Yes	***Mailing St:***	CA
Agency:	N/A	***Mailing Zi:***	92313-5314
Grand Fath:	N	***Phone No:***	(951) 766-8520
Cert Status:		***Website:***	
Operatione:		***Email:***	dnmenlo@yahoo.com
Monday Hou:	8:00 am - 5:00 pm	***Hours of Ope:***	MON - FRI 8:00 AM - 5:00 PM; SAT 8:00 AM - 3:00 PM; SUN CLOSED
Tuesday Ho:	8:00 am - 5:00 pm	***County:***	RIVERSIDE

21	***2 of 2***	***ESE***	***0.31 / 1,615.31***	***1,555.61 / 3***	***MENLO RECYCLE CENTER 22405 GOLDENCREST DR BLDG A MORENO VALLEY CA 92553***	***RECYCLING***

Cert ID:	RC144806.001	***Wednesday:***	8:00 am - 5:00 pm

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Operation:	09/23/11	**Thursday H:**	8:00 am - 5:00 pm
Rural:	N	**Friday Hou:**	8:00 am - 5:00 pm
Organization:	MENLO RECYCLE CENTER	**Saturday H:**	8:00 am - 4:00 pm
Aluminium:	Yes	**Sunday Hou:**	CLOSED
Glass:	Yes	**Mailing Ad:**	23325 WESTWOOD ST
Plastic:	Yes	**Mailing Ci:**	GRAND TERRACE
Bimetal:	Yes	**Mailing St:**	CA
Agency:	N/A	**Mailing Zi:**	92313
Grand Fath:	N	**Phone No:**	(951) 347-6897
Cert Status:	OPERATIONAL	**Website:**	
Operatione:		**Email:**	
Monday Hou:	8:00 am - 5:00 pm	**Hours of Ope:**	
Tuesday Ho:	8:00 am - 5:00 pm	**County:**	RIVERSIDE

22	1 of 2	ESE	0.41 / 2,141.40	1,552.52 / 0	TEXACO (SHELL) CACTUS AVE 22470 CACTUS AVE MORENO VALLEY CA	LOP RIVERSIDE

Site ID:	200219022	**Closed Code:**	Y
Status Code:	9	**Closed Desc:**	CLOSED SITE
Status Desc:	CLOSED/ACTION COMPLETED	**Employee:**	Shurlow-LOP
Case Type Code:	A		
Case Type Desc:	AN AQUIFER USED FOR DRINKING WATER SUPPLY HAS BEEN CONTAMINATED		

22	2 of 2	ESE	0.41 / 2,141.40	1,552.52 / 0	TEXACO (SHELL) CACTUS AVE 22470 CACTUS AVE MORENO VALLEY CA 92553	LUST

Global ID:	T0606566676	**County:**	RIVERSIDE
Status:	COMPLETED - CASE CLOSED	**Latitude:**	33.910583575
Status Date:	10/15/2013	**Longitude:**	-117.270751973
Case Type:	LUST CLEANUP SITE		
Date Source:	LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download		

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No:		**Potential COC:**	Gasoline
Local Case No:	200219022	**How Discovered:**	Tank Closure
Begin Date:	10/3/2002	**Stop Method:**	Close and Remove Tank
Lead Agency:	RIVERSIDE COUNTY LOP	**Stop Description:**	
Local Agency:		**Case Worker:**	
CUF Case:	YES	**File Location:**	Local Agency
Potential Media of Concern:	Aquifer used for drinking water supply		
How Discovered Description:			
Calwater Watershed Name:	San Jacinto Valley - Perris - Perris Valley (802.11)		
DWR GW Subbasin Name:	San Jacinto (8-005)		
Disadvantaged Community:			
Calenviroscreen Score:	91-95%		
Site History:			

Data prior to 2005 does not appear in GeoTracker. Consult agency files for all site data 3 UST's removed October 3, 2002. Up to 1800 ppm TPHg, 61 ppm MTBE and 2.4 ppm TBA was detected. The east end of T1, dispenser D5 and dispenser D2 were overexcavated. 243.97 tons of soil was taken to TPS for recycling. The site was entered into LOP October 22, 2002 4 gw mon wells (MW-1 through MW-4) were installed in April 2003. MW-1, MW-2, MW-3 were screened 20-50 ft bgs and MW-4 from 15-45 ft bgs. GW was not encountered in MW-4 at the time of installation, however, gw was present some time later. Wells MW-1, MW-2, and MW-3 remained dry after installation. MTBE & other constituents were detected in the soil from MW-2 (5 to 50') and in the bottom of MW-4 (35-50'). The gw was impacted in MW-4 (2300 ppb TPHg, ND<0.5 ppb B, 3900 ppb MTBE, 450 ppb TBA). 12 CPT soil borings were drilled in February 2004. Soil samples were collected only from CPT1 and CPT9, however, gw samples were collected from all CPT locations and the new wells. Pore pressure dissipation test were conducted in 6 of the CPT borings. TPHg in the groundwater ranged from 84 ppb to 1700 ppb. MTBE ranged from 1.2 to 42 ppb. 3 gw mon wells (MW-5 through MW-7) were installed in August 2004. No TPHg or BTEX were detected in any soil sample. No oxygenates were detected in MW-5 and MW-6. MW-7 had 0.098 ppm at 20'. MW-3 was destroyed in September 2004. A Batch Extraction Pilot Test was conducted in February 2006. 1332 gallons of gw and 12.4 lbs of hydrocarbons were extracted during the two events. The pneumatic and hydraulic ROI were interpreted to be <30'. 2 monitoring wells (MW-8 and MW-9) were installed in January 2006. No TPHg, BTEX or fuel oxygenates were detected in the soil of MW-9 and MW-9. 1 extraction well MW-2R) was installed in June 2006. MW-2R had MTBE and TBA at 55 and 60'. The groundwater extraction system was started October 12, 2006 using MW-2R and MW-7. Soil vapor extraction well SVE-1 was installed in

November 2006. Two days of SVE testing were completed December 5 and 6, 2006. TPHg removal rate was 7 lb/day (2 lb were removed during the 7-hr extended test), 0.37 lb/day MTBE (0.11 lb removed) and 0.004 lb/day B (0.001 lb removed). MTBE concentrations increased during the test and the final concentration at the end of the test was 32 ppmV MTBE. 2 monitoring wells (MW-10 and MW-11) were installed in March 2007. A 5-day SVE test was conducted using SVE-1 in March 2007. 21.91 lb TPHg, 1.73 lb MTBE, and 0.021 lb B were removed. The max MTBE vapor concentration was 18 ppmV and decreased to 5.6 ppmV. No further SVE remediation was recommended and RCDEH concurred. 3 confirmation borings (SB-1 through SB-3) were drilled to 60' in July 2007. GW was encountered at 55-55.5 ft bgs. SB-2 and SB-3 were ND for all constituents. SB-1 detections: 0.24 ppm TPHg (15'), 0.011 ppm M (25'), 0.0093 ppm M (30'). BTXE, oxygenates and ethanol were all ND. The groundwater extraction system was shut down Sept. 6, 2007. A total of 182650 gallons of groundwater, 4.546 lbs of TPHg, 15.32 lbs of MTBE and 5.77 lbs of TBA were recovered. MW-12 was installed in April 2008 to replace MW-2R which could not be sampled due to a pump lodged in its casing. Up to 0.69 ppm MTBE and 3.1 ppm TBA was detected in the soil. ~50 gallons of 3% hydrogen peroxide was added to MW-2R on August 12, 19, and 26, 2010 for a total of 165 gallons. Water samples were taken August 19, 2010 during hydrogen peroxide infiltration. Post-infiltration groundwater samples were taken September 10 and October 7, 2010. MW-2R TPHg went from 110 to <50 to 52 to <50 ppb. MTBE went from 8.8 to <1 to 6.1 to 6.5 ppb. TBA went from 1500 to <10 to 770 to 700 ppb. Chromium hexavalent went from <10 to 72 to 4.1 to 1.7 ppb 3 wells (MW-13 through MW-15) were installed March 18 and 22, 2011. TPHg was detected in only one soil sample at 222 ppm (MW-13@50'). MTBE was detected in all the samples from MW-13 ranging from 1.6J to 203 ppb. TBA was detected from 40-50' in MW-13 ranging from 39.2J to 971 ppb. The RCDEH approved closure in April 2013 and the SARWQCB concurred with closure in May 2013. The 60 day public comment period for comments on site closure ended on August 2013 with no comments. The wells were destroyed September 9-13, 2013. The site was closed October 13, 2013.

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 10/15/2013
Action: Closure/No Further Action Letter - #RCDEH Closure Documents

Action Type: ENFORCEMENT
Date : 10/14/2013
Action: Other Report - #UST Sample Analytical Report

Action Type: RESPONSE
Date : 10/4/2013
Action: Well Destruction Report

Action Type: RESPONSE
Date : 8/19/2013
Action: Verbal Communication

Action Type: RESPONSE
Date : 6/21/2013
Action: Other Report / Document

Action Type: ENFORCEMENT
Date : 6/17/2013
Action: Notification - Public Notice of Case Closure - #RCDEH 061713

Action Type: ENFORCEMENT
Date : 5/30/2013
Action: Staff Letter - #RCDEH 053013

Action Type: ENFORCEMENT
Date : 4/25/2013
Action: LOP Case Closure Summary to RB

Action Type: RESPONSE
Date : 4/15/2013
Action: Monitoring Report - Annually

Action Type: RESPONSE
Date : 1/15/2013
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2012
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/15/2012
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 7/10/2012
Action: Technical Correspondence / Assistance / Other - #RCDEH 071012

Action Type: ENFORCEMENT
Date : 5/1/2012
Action: Meeting

Action Type: RESPONSE
Date : 4/15/2012
Action: Monitoring Report - Annually

Action Type: RESPONSE
Date : 1/15/2012
Action: Monitoring Report - Quarterly

Action Type: REMEDIATION
Date : 11/1/2011
Action: In Situ Physical/Chemical Treatment (other than SVE)

Action Type: RESPONSE
Date : 10/15/2011
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 9/21/2011
Action: Meeting

Action Type: ENFORCEMENT
Date : 9/15/2011
Action: Technical Correspondence / Assistance / Other - #RCDEH 091511

Action Type: RESPONSE
Date : 7/15/2011
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/21/2011
Action: Well Installation Report

Action Type: RESPONSE
Date : 4/15/2011
Action: Monitoring Report - Annually

Action Type: ENFORCEMENT
Date : 3/28/2011
Action: Technical Correspondence / Assistance / Other - #RCDEH 032811

Action Type: ENFORCEMENT
Date : 2/23/2011
Action: Staff Letter - #RCDEH 022311

Action Type: ENFORCEMENT
Date : 2/23/2011
Action: Meeting

Action Type: RESPONSE
Date : 1/15/2011
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 11/1/2010
Action: Letter - Notice - #RCDEH 110110

Action Type: RESPONSE
Date : 10/15/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/8/2010
Action: Pilot Study/ Treatability Report

Action Type: REMEDIATION
Date : 8/12/2010
Action: In Situ Physical/Chemical Treatment (other than SVE)

Action Type: ENFORCEMENT
Date : 7/20/2010
Action: Staff Letter - #RCDEH 072010

Action Type: RESPONSE
Date : 7/15/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/15/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/15/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2009
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 8/13/2009
Action: Staff Letter - #RCDEH081309

Action Type: RESPONSE
Date : 7/15/2009
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 5/26/2009
Action: Staff Letter - #RCDEH 052609

Action Type: RESPONSE
Date : 4/15/2009
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/15/2009
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/15/2009
Action: Other Report / Document

Action Type: ENFORCEMENT
Date : 11/14/2008
Action: File review

Action Type: RESPONSE
Date : 10/7/2008
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 10/2/2008
Action: File review

Action Type: RESPONSE
Date : 7/15/2008
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT

Date : 6/5/2008
Action: Staff Letter - #RCDEH060508

Action Type: RESPONSE
Date : 5/2/2008
Action: Other Report / Document

Action Type: RESPONSE
Date : 4/15/2008
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 3/3/2008
Action: Staff Letter - #RCDEH030308

Action Type: RESPONSE
Date : 1/15/2008
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 11/1/2007
Action: File review - #RCDEH110107

Action Type: RESPONSE
Date : 10/15/2007
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/31/2007
Action: Other Report / Document

Action Type: ENFORCEMENT
Date : 6/6/2007
Action: Staff Letter - #RCDEH 060607

Action Type: RESPONSE
Date : 5/18/2007
Action: Other Workplan

Action Type: ENFORCEMENT
Date : 4/16/2007
Action: Staff Letter - #04162007

Action Type: REMEDIATION
Date : 3/13/2007
Action: Soil Vapor Extraction (SVE)

Action Type: REMEDIATION
Date : 12/5/2006
Action: Soil Vapor Extraction (SVE)

Action Type: REMEDIATION
Date : 10/12/2006
Action: Pump & Treat (P&T) Groundwater

Action Type: ENFORCEMENT
Date : 1/23/2004
Action: File review

Action Type: Other
Date : 10/23/2002
Action: Leak Reported

Action Type: Other
Date : 10/21/2002
Action: Leak Discovery

Action Type: REMEDIATION
Date : 10/3/2002

Action: Excavation

Action Type: Other
Date : 10/3/2002
Action: Leak Stopped

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
City: RIVERSIDE
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
Email: carl.bernhardt@waterboards.ca.gov
Phone No: 9517824495

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 10/15/2013

Status: Open - Eligible for Closure
Status Date: 5/30/2013

Status: Open - Remediation
Status Date: 7/20/2010

Status: Open - Verification Monitoring
Status Date: 9/6/2007

Status: Open - Remediation
Status Date: 10/12/2006

Status: Open - Site Assessment
Status Date: 10/22/2002

Status: Open - Case Begin Date
Status Date: 10/3/2002

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: TEXACO (SHELL) CACTUS AVE
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig: D
CUF Amount Paid:
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 22470 CACTUS AVE
City: MORENO VALLEY
Zip: 92553
County: RIVERSIDE
CUF Claim: 19728
File Location: LOCAL AGENCY
Designated Beneficial Use: MUN, AGR, IND, PROC
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0606566676
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 10/15/2013
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0606566676&tabname=regulatoryhistory
Potential Media of Concern: AQUIFER USED FOR DRINKING WATER SUPPLY
User Defined Beneficial Use:
DWR GW Sub Basin: San Jacinto (8-005)
Calwater Watershed Name: San Jacinto Valley - Perris - Perris Valley (802.11)
Post Closure Site Management: NOTIFY PRIOR TO CHANGE IN LAND USE
Future Land Use: COMMERCIAL
Cleanup Oversight Agencies: RIVERSIDE COUNTY LOP (LEAD) - CASE #: 200219022
SANTA ANA RWQCB (REGION 8)
CASEWORKER: CARL BERNHARDT
Gndwater Monitoring Freque: # OF WELLS MONITORED - QUARTERLY : 8, SEMI-ANNUALLY : 3, ANNUALLY : 4

REASONS FOR QUARTERLY OR MONTHLY OR OTHER GROUNDWATER MONITORING:
Well Being Sampled Within First Year of Being Installed - MW-13, MW-14, MW-15

Well Being Sampled for Post-Remedial Action Verification Monitoring - Post remediation monitoring
Well Has Not Shown Reliable Consistency Yet To Warrant Reduction in Sampling Frequency - Unstable trends

Designated Beneficial Use Desc: Municipal and Domestic Supply, Agricultural Supply, Industrial Service Supply, Industrial Process Supply

Site History:

Data prior to 2005 does not appear in GeoTracker. Consult agency files for all site data
3 UST's removed October 3, 2002. Up to 1800 ppm TPHg, 61 ppm MTBE and 2.4 ppm TBA was detected. The east end of T1, dispenser D5 and dispenser D2 were overexcavated. 243.97 tons of soil was taken to TPS for recycling. The site was entered into LOP October 22, 2002
4 gw mon wells (MW-1 through MW-4) were installed in April 2003. MW-1, MW-2, MW-3 were screened 20-50 ft bgs and MW-4 from 15-45 ft bgs. GW was not encountered in MW-4 at the time of installation, however, gw was present some time later. Wells MW-1, MW-2, and MW-3 remained dry after installation. MTBE & other constituents were detected in the soil from MW-2 (5 to 50') and in the bottom of MW-4 (35-50'). The gw was impacted in MW-4 (2300 ppb TPHg, ND<0.5 ppb B, 3900 ppb MTBE, 450 ppb TBA).
12 CPT soil borings were drilled in February 2004. Soil samples were collected only from CPT1 and CPT9, however, gw samples were collected from all CPT locations and the new wells. Pore pressure dissipation test were conducted in 6 of the CPT borings. TPHg in the groundwater ranged from 84 ppb to 1700 ppb. MTBE ranged from 1.2 to 42 ppb.
3 gw mon wells (MW-5 through MW-7) were installed in August 2004. No TPHg or BTEX were detected in any soil sample. No oxygenates were detected in MW-5 and MW-6. MW-7 had 0.098 ppm at 20'.
MW-3 was destroyed in September 2004.
A Batch Extraction Pilot Test was conducted in February 2006. 1332 gallons of gw and 12.4 lbs of hydrocarbons were extracted during the two events. The pneumatic and hydraulic ROI were interpreted to be <30'.
2 monitoring wells (MW-8 and MW-9) were installed in January 2006. No TPHg, BTEX or fuel oxygenates were detected in the soil of MW-9 and MW-9.
1 extraction well MW-2R) was installed in June 2006. MW-2R had MTBE and TBA at 55 and 60'. The groundwater extraction system was started October 12, 2006 using MW-2R and MW-7.
Soil vapor extraction well SVE-1 was installed in November 2006. Two days of SVE testing were completed December 5 and 6, 2006. TPHg removal rate was 7 lb/day (2 lb were removed during the 7-hr extended test), 0.37 lb/day MTBE (0.11 lb removed) and 0.004 lb/day B (0.001 lb removed). MTBE concentrations increased during the test and the final concentration at the end of the test was 32 ppmV MTBE.
2 monitoring wells (MW-10 and MW-11) were installed in March 2007.
A 5-day SVE test was conducted using SVE-1 in March 2007. 21.91 lb TPHg, 1.73 lb MTBE, and 0.021 lb B were removed. The max MTBE vapor concentration was 18 ppmV and decreased to 5.6 ppmV. No further SVE remediation was recommended and RCDEH concurred.
3 confirmation borings (SB-1 through SB-3) were drilled to 60' in July 2007. GW was encountered at 55-55.5 ft bgs. SB-2 and SB-3 were ND for all constituents. SB-1 detections: 0.24 ppm TPHg (15'), 0.011 ppm M (25'), 0.0093 ppm M (30'). BTXE, oxygenates and ethanol were all ND.
The groundwater extraction system was shut down Sept. 6, 2007. A total of 182650 gallons of groundwater, 4.546 lbs of TPHg, 15.32 lbs of MTBE and 5.77 lbs of TBA were recovered.
MW-12 was installed in April 2008 to replace MW-2R which could not be sampled due to a pump lodged in its casing. Up to 0.69 ppm MTBE and 3.1 ppm TBA was detected in the soil.
~50 gallons of 3% hydrogen peroxide was added to MW-2R on August 12, 19, and 26, 2010 for a total of 165 gallons. Water samples were taken August 19, 2010 during hydrogen peroxide infiltration. Post-infiltration groundwater samples were taken September 10 and October 7, 2010. MW-2R TPHg went from 110 to <50 to 52 to <50 ppb. MTBE went from 8.8 to <1 to 6.1 to 6.5 ppb. TBA went from 1500 to <10 to 770 to 700 ppb. Chromium hexavalent went from <10 to 72 to 4.1 to 1.7 ppb
3 wells (MW-13 through MW-15) were installed March 18 and 22, 2011. TPHg was detected in only one soil sample at 222 ppm ('). MTBE was detected in all the samples from MW-13 ranging from 1.6J to 203 ppb. TBA was detected from 40-50' in MW-13 ranging from 39.2J to 971 ppb.
The RCDEH approved closure in April 2013 and the SARWQCB concurred with closure in May 2013. The 60 day public comment period for comments on site closure ended on August 2013 with no comments.
The wells were destroyed September 9-13, 2013. The site was closed October 13, 2013.

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 10/15/2013

Status: Open - Eligible for Closure
Date : 5/30/2013

Status: Open - Remediation
Date : 7/20/2010

Status: Open - Verification Monitoring
Date : 9/6/2007

Status: Open - Remediation
Date : 10/12/2006

Status: Open - Site Assessment
Date : 10/22/2002

Status: Open - Case Begin Date

Date : 10/3/2002

LUST Sites from GeoTracker Search - Cleanup Action Report (as of May 29, 2021)

Action Type: IN SITU PHYSICAL/CHEMICAL TREATMENT (OTHER THAN SVE) ***Begin Date:*** 11/1/2011
Phase: ***End Date:*** 12/31/2011
Contaminant Mass Removed:
Description: 280 gal 3% hydrogen peroxide injected by gravity feed in well MW-13

Action Type: IN SITU PHYSICAL/CHEMICAL TREATMENT (OTHER THAN SVE) ***Begin Date:*** 8/12/2010
Phase: ***End Date:*** 8/26/2010
Contaminant Mass Removed:
Description: 165 gallons of 3% hydrogen peroxide injected into MW-2R

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 3/13/2007
Phase: Other (See Description) ***End Date:*** 3/18/2007
Contaminant Mass Removed: 24 Pounds
Description: SVE pilot testing

Action Type: SOIL VAPOR EXTRACTION (SVE) ***Begin Date:*** 12/5/2006
Phase: Soil, Soil ***End Date:*** 12/6/2006
Contaminant Mass Removed: 7 Pounds
Description: SVE pilot testing conducted

Action Type: PUMP & TREAT (P&T) GROUNDWATER ***Begin Date:*** 10/12/2006
Phase: Water, Water, Water, Water ***End Date:*** 9/6/2007
Contaminant Mass Removed: 15 Pounds
Description: 4.46 lb TPHg, 15.32 lb MTBE & 5.77 lb TBA removed from water

Action Type: EXCAVATION ***Begin Date:*** 10/3/2002
Phase: Soil ***End Date:*** 10/10/2002
Contaminant Mass Removed: 244 Tons
Description:

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 10/15/2013
Received Issue Date: 10/15/2013
Action: Closure/No Further Action Letter - #RCDEH Closure Documents
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6182064&temptable=ENFORCEMENT
Title Description Comments:

Case closure

Action Type: Reports
Action Date: 10/14/2013
Received Issue Date: 10/14/2013
Action: Other Report - #UST Sample Analytical Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6302150&temptable=ENFORCEMENT
Title Description Comments:

UST Sample Analytical Report 7/30/2012

Action Type: Response Requested - Reports
Action Date: 10/4/2013
Received Issue Date: 10/7/2013
Action: Well Destruction Report
Doc Link:
Title Description Comments:

Action Type: Response Requested - Other
Action Date: 8/19/2013
Received Issue Date: 8/19/2013
Action: Verbal Communication
Doc Link:
Title Description Comments:

60 day public comment period over

Action Type: Response Requested - Other
Action Date: 6/21/2013
Received Issue Date: 6/21/2013
Action: Other Report / Document
Doc Link:
Title Description Comments:

documentation of delivery of 60 day public notices

Action Type: Notices
Action Date: 6/17/2013
Received Issue Date: 6/17/2013
Action: Notification - Public Notice of Case Closure - #RCDEH 061713
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6160731&temptable=ENFORCEMENT
Title Description Comments:

60-day public comment notification

Action Type: Other Regulatory Actions
Action Date: 5/30/2013
Received Issue Date: 5/30/2013
Action: Staff Letter - #RCDEH 053013
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6160729&temptable=ENFORCEMENT
Title Description Comments:

directive

Action Type: Other Regulatory Actions
Action Date: 4/25/2013
Received Issue Date: 4/25/2013
Action: LOP Case Closure Summary to RB
Doc Link:
Title Description Comments:

LOP case closure summary to RB

Action Type: Response Requested - Reports
Action Date: 4/15/2013
Received Issue Date: 4/15/2013
Action: Monitoring Report - Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5770084
Title Description Comments:

- RCDEH reviewed first quarter 2013 annual report

Action Type: Response Requested - Reports
Action Date: 1/15/2013
Received Issue Date: 1/15/2013
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5760580
Title Description Comments:

- RCDEH reviewed fourth quarter status report

Action Type: Response Requested - Reports
Action Date: 1/15/2013
Received Issue Date: 1/14/2013
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5760528
Title Description Comments:

- RCDEH reviewed fourth quarter 2012 status report

Action Type: Response Requested - Reports
Action Date: 10/15/2012
Received Issue Date: 10/15/2012
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5755218
Title Description Comments:

- RCDEH reviewed third quarter 2012 status report

Action Type: Response Requested - Reports
Action Date: 7/15/2012
Received Issue Date: 7/11/2012
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5743860
Title Description Comments:

- RCDEH reviewed second quarter 2012 status report

Action Type: Other Regulatory Actions
Action Date: 7/10/2012
Received Issue Date: 7/10/2012
Action: Technical Correspondence / Assistance / Other - #RCDEH 071012
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6129493&temptable=ENFORCEMENT
Title Description Comments:

technical correspondence RCDEH accepts one additional year of gw monitoring to determine if hydrogen peroxide injection successful

Action Type: Other Regulatory Actions
Action Date: 7/10/2012
Received Issue Date: 7/10/2012
Action: Technical Correspondence / Assistance / Other - #RCDEH 071012
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6129492&temptable=ENFORCEMENT
Title Description Comments:

technical correspondence RCDEH accepted reducing running full scan analyses to annually

Action Type: Other Regulatory Actions
Action Date: 5/1/2012
Received Issue Date: 5/1/2012
Action: Meeting
Doc Link:
Title Description Comments:

meeting with Shell, their consultants and the SARWQCB

Action Type: Response Requested - Reports
Action Date: 4/15/2012
Received Issue Date: 4/16/2012
Action: Monitoring Report - Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5735810
Title Description Comments:

- RCDEH reviewed first quarter 2012 annual report

Action Type: Response Requested - Reports
Action Date: 1/15/2012
Received Issue Date: 1/17/2012
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5730809
Title Description Comments:

- RCDEH reviewed fourth quarter 2012 status report

Action Type: Response Requested - Reports
Action Date: 10/15/2011
Received Issue Date: 10/11/2011
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5723306
Title Description Comments:

- RCDEH reviewed third quarter 2011 status report

Action Type: Other Regulatory Actions
Action Date: 9/21/2011
Received Issue Date: 9/21/2011
Action: Meeting
Doc Link:
Title Description Comments:

meeting with Shell, their consultants and the SARWQCB

Action Type: Other Regulatory Actions
Action Date: 9/15/2011
Received Issue Date: 9/15/2011
Action: Technical Correspondence / Assistance / Other - #RCDEH 091511
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6098771&temptable=ENFORCEMENT
Title Description Comments:

technical correspondence RCDEH accepted implementing 3 hydrogen peroxide infiltration events starting immediately

Action Type: Response Requested - Reports
Action Date: 7/15/2011
Received Issue Date: 7/18/2011
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5719938
Title Description Comments:

- RCDEH reviewed second quarter 2011 status report

Action Type: Response Requested - Reports
Action Date: 4/21/2011
Received Issue Date: 4/26/2011
Action: Well Installation Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5707303
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 4/15/2011
Received Issue Date: 4/26/2011
Action: Monitoring Report - Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5712277
Title Description Comments:

- RCDEH reviewed first quarter 2011 Annual status report

Action Type: Other Regulatory Actions
Action Date: 3/28/2011
Received Issue Date: 3/28/2011
Action: Technical Correspondence / Assistance / Other - #RCDEH 032811
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6082598&temptable=ENFORCEMENT
Title Description Comments:

correspondence RCDEH accepted discontinuance of lead analysis for gw.

Action Type: Other Regulatory Actions
Action Date: 2/23/2011
Received Issue Date: 2/23/2011
Action: Staff Letter - #RCDEH 022311
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6078735&temptable=ENFORCEMENT
Title Description Comments:

directive RCDEH sent letter accepting workplan to install wells and hydrogen peroxide infiltration and gave until April 21, 2011 to complete work and submit report.

Action Type: Other Regulatory Actions
Action Date: 2/23/2011
Received Issue Date: 2/23/2011
Action: Meeting
Doc Link:
Title Description Comments:

meeting with Shell, their consultants and the SARWQCB

Action Type: Response Requested - Reports
Action Date: 1/15/2011
Received Issue Date: 1/25/2011
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5706028
Title Description Comments:

- RCDEH reviewed fourth quarter 2010 status report

Action Type: Notices
Action Date: 11/1/2010
Received Issue Date: 11/1/2010
Action: Letter - Notice - #RCDEH 110110
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6068028&temptable=ENFORCEMENT
Title Description Comments:

new LOP oversight lead RCDEH sent e-mail that LDS is new LOP lead

Action Type: Response Requested - Reports
Action Date: 10/15/2010
Received Issue Date: 10/6/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=100004
Title Description Comments:

Qtrly GW Monitoring Report - Q3-10 GW Mon (Qtrly & semiannual wells)

Action Type: Response Requested - Reports
Action Date: 10/8/2010
Received Issue Date: 10/28/2010
Action: Pilot Study/ Treatability Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5672735

Title Description Comments:

Action Type: Other Regulatory Actions
Action Date: 7/20/2010
Received Issue Date: 7/20/2010
Action: Staff Letter - #RCDEH 072010
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6058030&temptable=ENFORCEMENT
Title Description Comments:

Workplan acceptance letter RCDEH accepted plans for peroxide injection

Action Type: Response Requested - Reports
Action Date: 7/15/2010
Received Issue Date: 7/10/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=100003
Title Description Comments:

Qtrly GW Monitoring Report - Q2-10 GW Mon Report (Qtrly wells)

Action Type: Response Requested - Reports
Action Date: 4/15/2010
Received Issue Date: 4/15/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=100002
Title Description Comments:

Annual Evaluation & GW Mon - Annual Cleanup Evaluation Report & GW Mon (all wells)

Action Type: Response Requested - Reports
Action Date: 1/15/2010
Received Issue Date: 1/7/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=100001
Title Description Comments:

Qtrly GW Monitoring Report - Q4-09 GW Mon Report (Qtrly wells)

Action Type: Response Requested - Reports
Action Date: 10/15/2009
Received Issue Date: 10/8/2009
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5650070
Title Description Comments:

- Q3-09 GW Monitoring Report

Action Type: Other Regulatory Actions
Action Date: 8/13/2009
Received Issue Date: 8/13/2009
Action: Staff Letter - #RCDEH081309
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6028210&temptable=ENFORCEMENT
Title Description Comments:

GW Monitoring Frequency Letter

Action Type: Response Requested - Reports
Action Date: 7/15/2009
Received Issue Date: 7/7/2009
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

- Q2-09 GW Monitoring Report

Action Type: Other Regulatory Actions
Action Date: 5/26/2009
Received Issue Date: 5/26/2009
Action: Staff Letter - #RCDEH 052609
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6014690&temptable=ENFORCEMENT
Title Description Comments:

Directive RCDEH sent letter requiring further gw monitoring and MNA evaluation prior to considering the site for closure.

Action Type: Response Requested - Reports
Action Date: 4/15/2009
Received Issue Date: 4/3/2009
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5635702
Title Description Comments:

- Q1-09 GW Monitoring Report

Action Type: Response Requested - Other
Action Date: 1/15/2009
Received Issue Date: 1/15/2009
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5592056
Title Description Comments:

Other Report / Document - Report for MNA evaluation due 1/15/09

Action Type: Response Requested - Reports
Action Date: 1/15/2009
Received Issue Date: 1/12/2009
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606566676&doc_id=5628497
Title Description Comments:

- Q4-08 GW Monitoring Report

Action Type: Other Regulatory Actions
Action Date: 11/14/2008
Received Issue Date: 11/14/2008
Action: File review
Doc Link:
Title Description Comments:

RCDEH reviewed third quarter 2008 status report

Action Type: Response Requested - Reports
Action Date: 10/7/2008
Received Issue Date: 10/7/2008
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

- Q3-08 GW Monitoring Report

Action Type: Other Regulatory Actions
Action Date: 10/2/2008
Received Issue Date: 10/2/2008
Action: File review
Doc Link:
Title Description Comments:

RCDEH reviewed second quarter 2008 status report

Action Type: Response Requested - Reports
Action Date: 7/15/2008
Received Issue Date: 7/15/2008
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Q2-08 GW Monitoring Report - Q2-08 GW Mon. Report

Action Type: Other Regulatory Actions
Action Date: 6/5/2008
Received Issue Date: 6/5/2008
Action: Staff Letter - #RCDEH060508
Doc Link:
Title Description Comments:

RCDEH issued letter accepting report for replacement well MW-12 and plans for MNA with conditions

Action Type: Response Requested - Other
Action Date: 5/2/2008
Received Issue Date: 4/29/2008
Action: Other Report / Document
Doc Link:
Title Description Comments:

Other Report / Document - Report for well replacement due 5/2/08.

Action Type: Response Requested - Reports
Action Date: 4/15/2008
Received Issue Date: 4/14/2008
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - Q1-08 Quarterly gw monitoring

Action Type: Other Regulatory Actions
Action Date: 3/3/2008
Received Issue Date: 3/3/2008
Action: Staff Letter - #RCDEH030308
Doc Link:
Title Description Comments:

RCDEH sent letter accepting plans to replace MW-2R

Action Type: Response Requested - Reports
Action Date: 1/15/2008
Received Issue Date: 1/15/2008
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - Q4-07 Quarterly gw monitoring

Action Type: Other Regulatory Actions
Action Date: 11/1/2007
Received Issue Date: 11/1/2007
Action: File review - #RCDEH110107
Doc Link:
Title Description Comments:

Quarterly gw monitoring

Action Type: Response Requested - Reports
Action Date: 10/15/2007
Received Issue Date: 10/10/2007
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - Q3-07 Quarterly gw monitoring

Action Type: Response Requested - Other
Action Date: 7/31/2007
Received Issue Date: 7/30/2007
Action: Other Report / Document
Doc Link:
Title Description Comments:

Other Report / Document - Report for further soil plume characterization due 7/31/07

Action Type: Other Regulatory Actions
Action Date: 6/6/2007
Received Issue Date: 6/6/2007
Action: Staff Letter - #RCDEH 060607
Doc Link:
Title Description Comments:

RCDEH sent letter accepting wp for further plume characterization Report due 7/31/07

Action Type: Response Requested - Workplans
Action Date: 5/18/2007
Received Issue Date: 5/17/2007
Action: Other Workplan
Doc Link:
Title Description Comments:

Additional Information Workplan - Plans for feasibility testing and definitive plume delineation due 5/18/2007

Action Type: Other Regulatory Actions
Action Date: 4/16/2007
Received Issue Date: 4/16/2007
Action: Staff Letter - #04162007
Doc Link:
Title Description Comments:

RCDEH sent letter accepting report and requesting more work

Action Type: Other Regulatory Actions
Action Date: 1/23/2004
Received Issue Date: 1/23/2004
Action: File review
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6383997&temptable=ENFORCEMENT
Title Description Comments:

File review

Action Type: Cleanup Action
Action Date: 11/1/2011
Received Issue Date:
Action: In Situ Physical/Chemical Treatment (other than SVE)
Doc Link:
Title Description Comments:

280 gal 3% hydrogen peroxide injected by gravity feed in well MW-13

Action Type: Cleanup Action
Action Date: 8/12/2010
Received Issue Date:
Action: In Situ Physical/Chemical Treatment (other than SVE)
Doc Link:
Title Description Comments:

165 gallons of 3% hydrogen peroxide injected into MW-2R

Action Type: Cleanup Action
Action Date: 3/13/2007
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

SVE pilot testing

Action Type: Cleanup Action
Action Date: 12/5/2006
Received Issue Date:
Action: Soil Vapor Extraction (SVE)
Doc Link:
Title Description Comments:

SVE pilot testing conducted

Action Type: Cleanup Action
Action Date: 10/12/2006
Received Issue Date:
Action: Pump & Treat (P&T) Groundwater
Doc Link:
Title Description Comments:

4.46 lb TPHg, 15.32 lb MTBE & 5.77 lb TBA removed from water

Action Type: Leak Action
Action Date: 10/23/2002
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 10/21/2002
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 10/3/2002
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

Action Type: Cleanup Action
Action Date: 10/3/2002
Received Issue Date:
Action: Excavation

Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Site Maps (as of May 29, 2021)

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/8003308892/T0606566676.PDF
Size : 70 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 6/8/2011

Title: MW-13 (MW-13)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2365125298/T0606566676.PDF
Size : 80 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 5/20/2011

Title: MW-15 (MW-15)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5459360778/T0606566676.PDF
Size : 75 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 5/20/2011

Title: MW-14 (MW-14)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/6520291924/T0606566676.PDF
Size : 78 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 5/20/2011

Title: MW-2R (MW-2R)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/8385981261/T0606566676.PDF
Size : 35 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 4/7/2011

Title: MW-8 (MW-8)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/4184260070/T0606566676.PDF
Size : 49 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted: 4/7/2011

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/8405641853/T0606566676.PDF
Size : 201 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 10/12/2009

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/6555756092/T0606566676.PDF
Size : 204 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 7/2/2009

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/3462343513/T0606566676.PDF
Size : 205 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 3/31/2009

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/9112135171/T0606566676.PDF
Size : 91 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 1/8/2009

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/5257307291/T0606566676.PDF

Size : 263 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 10/7/2008

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/6126327991/T0606566676.PDF
Size : 734 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 8/13/2008

Title: GEO_BORE (MW-12)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/4580096185/T0606566676.pdf
Size : 103 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 5/21/2008

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/9786972522/T0606566676.pdf
Size : 52 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 4/17/2008

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/8260694742/T0606566676.pdf
Size : 24 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 9/18/2007

Title: GEO_BORE (SB-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/6508746087/T0606566676.pdf
Size : 74 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 9/18/2007

Title: GEO_BORE (SB-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5219500482/T0606566676.pdf
Size : 80 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 9/18/2007

Title: GEO_BORE (SB-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3885210931/T0606566676.pdf
Size : 70 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 9/18/2007

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/1783938348/T0606566676.pdf
Size : 677 KB
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Submitted: 10/5/2006

Title: GEO_BORE (MW-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2049573600/T0606566676.pdf
Size : 45 KB
Submitted By: NORTHSHORE ENGINEERING (CONTRACTOR)
Submitted: 6/28/2005

Title: GEO_BORE (MW-6)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5594116032/T0606566676.pdf
Size : 183 KB
Submitted By: NORTHSHORE ENGINEERING (CONTRACTOR)
Submitted: 6/28/2005

Title: GEO_BORE (MW-5)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5819767594/T0606566676.pdf
Size : 162 KB
Submitted By: NORTHSHORE ENGINEERING (CONTRACTOR)
Submitted: 6/28/2005

Title: GEO_BORE (MW-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/4221021354/T0606566676.pdf
Size : 52 KB
Submitted By: NORTHSHORE ENGINEERING (CONTRACTOR)
Submitted: 6/28/2005

Title: GEO_BORE (MW-4)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2323682487/T0606566676.pdf
Size : 48 KB
Submitted By: NORTHSHORE ENGINEERING (CONTRACTOR)
Submitted: 6/28/2005

Title: GEO_BORE (MW-7)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/7802976310/T0606566676.pdf
Size : 189 KB
Submitted By: NORTHSHORE ENGINEERING (CONTRACTOR)
Submitted: 6/28/2005

Title: GEO_BORE (MW-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3924939811/T0606566676.pdf
Size : 49 KB
Submitted By: NORTHSHORE ENGINEERING (CONTRACTOR)
Submitted: 6/28/2005

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/6884519279/T0606566676.pdf
Size : 44 KB
Submitted By: NORTHSHORE ENGINEERING (CONTRACTOR)
Submitted: 7/15/2004*

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents
Document Date: 10/15/2013
Type: CLOSURE/NO FURTHER ACTION LETTER
Title: CASE CLOSURE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6182064
Size :
Submitted By: SHARON BOLTINGHOUSE (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 10/15/2013
Type: OTHER REPORT / DOCUMENT
Title: WASTE MANIFESTS
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8274781703/T0606566676.PDF
Size : 265 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted:

Document Type: Site Documents
Document Date: 10/14/2013
Type: OTHER REPORT
Title: UST SAMPLE ANALYTICAL REPORT 7/30/2012
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6302150
Size :
Submitted By: LINDA SHURLOW (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 6/17/2013
Type: NOTIFICATION - PUBLIC NOTICE OF CASE CLOSURE
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6160731
Size :
Submitted By: LINDA SHURLOW (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 5/30/2013
Type: STAFF LETTER
Title: DIRECTIVE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6160729
Size :
Submitted By: LINDA SHURLOW (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 5/28/2013
Type: CORRESPONDENCE
Title: CHANGE IN SHELL PROJECT MANAGER
Size : 40 KB
Submitted By: WAYNE PERRY, INC. (CONTRACTOR)
Submitted:

Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3707370817/T0606566676.PDF

Document Type: Site Documents | **Size :** 134 KB
Document Date: 4/24/2013 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT | **Submitted:**
Title: PLUME CHANGE OVER TIME (COLOR) MAP
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7094999194/T0606566676.PDF

Document Type: Monitoring Reports | **Size :** 11,800 KB
Document Date: 4/8/2013 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - OTHER | **Submitted:**
Title: 1Q2013-ANNUAL CLEANUP EVALUATION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1067768156/T0606566676.PDF

Document Type: Monitoring Reports | **Size :** 5,558 KB
Document Date: 1/10/2013 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 4Q2012-GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8430255949/T0606566676.PDF

Document Type: Site Documents | **Size :** 5,651 KB
Document Date: 10/23/2012 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: REQUEST FOR CLOSURE | **Submitted:**
Title: LOW-THREAT CLOSURE POLICY CLOSURE REQUEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2740753114/T0606566676.PDF

Document Type: Monitoring Reports | **Size :** 5,832 KB
Document Date: 10/12/2012 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 3Q2012-GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1995742738/T0606566676.PDF

Document Type: Site Documents | **Size :**
Document Date: 7/10/2012 | **Submitted By:** LINDA SHURLOW (REGULATOR)
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER | **Submitted:**
Title: TECHNICAL CORRESPONDENCE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6129493

Document Type: Site Documents | **Size :**
Document Date: 7/10/2012 | **Submitted By:** LINDA SHURLOW (REGULATOR)
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER | **Submitted:**
Title: TECHNICAL CORRESPONDENCE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6129492

Document Type: Monitoring Reports | **Size :** 5,502 KB
Document Date: 7/9/2012 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 2Q2012-GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9773892998/T0606566676.PDF

Document Type: Site Documents | **Size :** 46 KB
Document Date: 6/19/2012 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT | **Submitted:**
Title: REQUEST FOR APPROVAL TO REDUCE FREQUENCY OF FULL SCAN ANALYSIS
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5677350878/T0606566676.PDF

Document Type: Site Documents | **Size :** 14,172 KB
Document Date: 5/23/2012 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: REMEDIAL PROGRESS REPORT | **Submitted:**
Title: HYDROGEN PEROXIDE INJECTION EVENTS
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9980509459/T0606566676.PDF

Document Type: Monitoring Reports | **Size :** 13,516 KB
Document Date: 4/11/2012 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 1Q2012-ANNUAL CLEANUP EVALUATION REPORT AND GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9848433732/T0606566676.PDF

Document Type: Monitoring Reports | **Size :** 8,652 KB
Document Date: 1/11/2012 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 4Q2011-GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9753568291/T0606566676.PDF

Document Type: Monitoring Reports | **Size :** 6,186 KB
Document Date: 10/6/2011 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 3Q2011-GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5805566370/T0606566676.PDF

Document Type: Site Documents | **Size :**
Document Date: 9/15/2011 | **Submitted By:** LINDA SHURLOW (REGULATOR)
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER | **Submitted:**
Title: TECHNICAL CORRESPONDENCE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6098771

Document Type: Monitoring Reports | **Size :** 5,523 KB
Document Date: 7/14/2011 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 2Q2011-GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2126587867/T0606566676.PDF

Document Type: Site Documents | **Size :** 11,637 KB
Document Date: 4/21/2011 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: SITE ASSESSMENT REPORT | **Submitted:**
Title: ADDITIONAL SITE ASSESSMENT REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5613581359/T0606566676.PDF

Document Type: Monitoring Reports | **Size :** 9,607 KB
Document Date: 4/14/2011 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - OTHER | **Submitted:**
Title: ANNUAL CLEANUP EVALUATION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7586822450/T0606566676.PDF

Document Type: Site Documents | **Size :**
Document Date: 3/28/2011 | **Submitted By:** LINDA SHURLOW (REGULATOR)
Type: TECHNICAL CORRESPONDENCE / ASSISTANCE / OTHER | **Submitted:**
Title: CORRESPONDENCE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6082598

Document Type: Site Documents | **Size :** 46 KB
Document Date: 3/2/2011 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: CORRESPONDENCE | **Submitted:**
Title: REVISED REQUEST FOR APPROVAL TO DISCONTINUE LEAD ANALYSIS
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1242185235/T0606566676.PDF

Document Type: Site Documents | **Size :**
Document Date: 2/23/2011 | **Submitted By:** LINDA SHURLOW (REGULATOR)
Type: STAFF LETTER | **Submitted:**
Title: DIRECTIVE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6078735

Document Type: Monitoring Reports | **Size :** 5,811 KB
Document Date: 1/14/2011 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 4Q10-GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8818917691/T0606566676.PDF

Document Type: Site Documents | **Size :** 571 KB
Document Date: 11/24/2010 | **Submitted By:** WAYNE PERRY, INC. (CONTRACTOR)
Type: SITE ASSESSMENT REPORT | **Submitted:**
Title: WORK PLAN FOR ADDITIONAL SITE ASSESSMENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3066401183/T0606566676.PDF

Document Type: Site Documents
Size :
Document Date: 11/1/2010
Submitted By: LINDA SHURLOW (REGULATOR)
Type: LETTER - NOTICE
Submitted:
Title: NEW LOP OVERSIGHT LEAD
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6068028

Document Type: Site Documents
Size : 15,142 KB
Document Date: 10/27/2010
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT
Submitted:
Title: HYDROGEN PEROXIDE INFILTRATION SUMMARY REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1079794645/T0606566676.PDF

Document Type: Monitoring Reports
Size : 13,449 KB
Document Date: 10/5/2010
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: THIRD QUARTER 2010 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4694025695/T0606566676.PDF

Document Type: Site Documents
Size :
Document Date: 7/20/2010
Submitted By: SHARON BOLTINGHOUSE (REGULATOR)
Type: STAFF LETTER
Submitted:
Title: WORKPLAN ACCEPTANCE LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6058030

Document Type: Monitoring Reports
Size : 13,207 KB
Document Date: 7/2/2010
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: SECOND QUARTER 2010 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7006784021/T0606566676.PDF

Document Type: Monitoring Reports
Size : 9,960 KB
Document Date: 4/14/2010
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: ANNUAL CLEANUP EVALUATION AND FIRST QUARTER 2010 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7826203703/T0606566676.PDF

Document Type: Site Documents
Size : 3,918 KB
Document Date: 2/3/2010
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Type: OTHER WORKPLAN
Submitted:
Title: WORK PLAN FOR HYDROGEN PEROXIDE INJECTION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5912133753/T0606566676.PDF

Document Type: Monitoring Reports
Size : 8,798 KB
Document Date: 1/4/2010
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 2009-01-04 22470 CATUS AVE 4Q09 GWM REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8233043849/T0606566676.PDF

Document Type: Monitoring Reports
Size : 12,588 KB
Document Date: 10/6/2009
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: THIRD QUARTER 2009 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7543526768/T0606566676.PDF

Document Type: Site Documents
Size :
Document Date: 8/13/2009
Submitted By: SHARON BOLTINGHOUSE (REGULATOR)
Type: STAFF LETTER
Submitted:
Title: GW MONITORING FREQUENCY LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6028210

Document Type: Monitoring Reports
Size : 12,084 KB
Document Date: 7/1/2009
Submitted By: DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: SECOND QUARTER 2009 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1079483509/T0606566676.PDF

Document Type: Site Documents
Size :
Document Date: 5/26/2009
Submitted By: SHARON BOLTINGHOUSE (REGULATOR)
Type: STAFF LETTER
Submitted:

Title: DIRECTIVE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6014690

Document Type: Monitoring Reports — **Size :** 10,711 KB
Document Date: 4/1/2009 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY — **Submitted:**
Title: FIRST QUARTER 2009 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9092187047/T0606566676.PDF

Document Type: Site Documents — **Size :** 8,060 KB
Document Date: 1/14/2009 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: FINAL REMEDIAL ACTION REPORT / CORRECTIVE ACTION REPORT — **Submitted:**
Title: UPDATE TO THE FINAL CORRECTIVE ACTION PLAN AND REQUEST FOR NO FURTHER ACTION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1999451160/T0606566676.PDF

Document Type: Monitoring Reports — **Size :** 10,003 KB
Document Date: 1/7/2009 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY — **Submitted:**
Title: FOURTH QUARTER 2008 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4317653834/T0606566676.PDF

Document Type: Monitoring Reports — **Size :** 9,540 KB
Document Date: 10/6/2008 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY — **Submitted:**
Title: THIRD QUARTER 2008 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4933075428/T0606566676.PDF

Document Type: Monitoring Reports — **Size :** 14,970 KB
Document Date: 7/11/2008 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY — **Submitted:**
Title: SECOND QUARTER 2008 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1725298821/T0606566676.PDF

Document Type: Site Documents — **Size :** 67 KB
Document Date: 6/6/2008 — **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: LETTER — **Submitted:**
Title: RCDEH 060508 LETTER
Title Link: https://geotracker.waterboards.ca.gov/site_documents/3763538956/Texaco%20Cactus%20060508%20Letter%2Epdf

Document Type: Site Documents — **Size :** 11,739 KB
Document Date: 4/28/2008 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER — **Submitted:**
Title: GROUNDWATER MONITORING WELL INSTALLATION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7749775767/T0606566676.PDF

Document Type: Monitoring Reports — **Size :** 9,216 KB
Document Date: 4/11/2008 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY — **Submitted:**
Title: FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9905058920/T0606566676.PDF

Document Type: Site Documents — **Size :** 69 KB
Document Date: 3/3/2008 — **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: LETTER — **Submitted:**
Title: RCDEH 030308
Title Link: https://geotracker.waterboards.ca.gov/site_documents/8183338761/Texaco%20Cactus%20030308%20Letter%2Epdf

Document Type: Monitoring Reports — **Size :** 10,202 KB
Document Date: 1/10/2008 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY — **Submitted:**
Title: FOURTH QUARTER 2007 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3243733286/T0606566676.PDF

Document Type: Site Documents — **Size :** 12,970 KB
Document Date: 12/31/2007 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER — **Submitted:**

Title: GROUNDWATER EXTRACTION (GWE) PILOT TEST REPORT AND FINAL CORRECTIVE ACTION PLAN (FCAP)
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8458531260/T0606566676.PDF

Document Type: Site Documents — **Size :** 2,920 KB
Document Date: 12/28/2007 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: WORKPLANS - OTHER WP — **Submitted:**
Title: WORK PLAN FOR WELL REPLACEMENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3180287241/T0606566676.PDF

Document Type: Site Documents — **Size :** 56 KB
Document Date: 11/1/2007 — **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: LETTER — **Submitted:**
Title: RCDEH 110107 LETTER
Title Link: https://geotracker.waterboards.ca.gov/site_documents/4188023209/Texaco%20Cactus%20110107%20Letter%2Epdf

Document Type: Monitoring Reports — **Size :** 14,568 KB
Document Date: 10/9/2007 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY — **Submitted:**
Title: THIRD QUARTER 2007 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1471143424/T0606566676.PDF

Document Type: Site Documents — **Size :** 13,357 KB
Document Date: 8/7/2007 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER — **Submitted:**
Title: CONFIRMATION SOIL BORING ASSESSMENT REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9666395425/T0606566676.PDF

Document Type: Site Documents — **Size :** 14,421 KB
Document Date: 7/12/2007 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - QUARTERLY STATUS REPORT — **Submitted:**
Title: SECOND QUARTER 2007 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9030012369/T0606566676.PDF

Document Type: Site Documents — **Size :** 8,260 KB
Document Date: 7/12/2007 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - QUARTERLY STATUS REPORT — **Submitted:**
Title: SECOND QUARTER 2007 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2078398764/T0606566676.PDF

Document Type: Site Documents — **Size :** 170 KB
Document Date: 7/5/2007 — **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: LETTER — **Submitted:**
Title: RCDEH 060607 LETTER
Title Link: https://geotracker.waterboards.ca.gov/site_documents/4842533707/Texaco%20Cactus%20060607%20Letter%2Epdf

Document Type: Site Documents — **Size :** 1,801 KB
Document Date: 5/16/2007 — **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: WORKPLANS - OTHER WP — **Submitted:**
Title: WORK PLAN FOR ADDITIONAL SITE ASSESSMENT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6231203973/T0606566676.PDF

Document Type: Site Documents — **Size :** 68 KB
Document Date: 4/17/2007 — **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: OTHER — **Submitted:**
Title: 10/23/2002 URR
Title Link: https://geotracker.waterboards.ca.gov/site_documents/2968266129/Texaco%20Cactus%2010232002%20URR%2Epdf

Document Type: Site Documents — **Size :** 88 KB
Document Date: 4/17/2007 — **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: LETTER — **Submitted:**
Title: RIV CO 041607 LETTER
Title Link: https://geotracker.waterboards.ca.gov/site_documents/2431721329/Texaco%20Cactus%20041607%20Letter%2Epdf

Document Type: Site Documents — **Size :** 7,908 KB

Document Date: 4/15/2007 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - QUARTERLY STATUS REPORT **Submitted:**
Title: FIRST QUARTER 2007 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7162020623/T0606566676.PDF

Document Type: Site Documents **Size :** 8,839 KB
Document Date: 4/15/2007 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - QUARTERLY STATUS REPORT **Submitted:**
Title: FIRST QUARTER 2007 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8522521793/T0606566676.PDF

Document Type: Site Documents **Size :** 11,448 KB
Document Date: 4/12/2007 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: GROUNDWATER MONITORING WELL INSTALLATION AND SOIL VAPOR EXTRACTION EXTENDED PILOT TEST REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6615079581/T0606566676.PDF

Document Type: Site Documents **Size :** 8,278 KB
Document Date: 2/14/2007 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: GROUNDWATER EXTRACTION PILOT TEST UPDATE AND INTERIM REMEDIAL ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5560488641/T0606566676.PDF

Document Type: Site Documents **Size :** 3,876 KB
Document Date: 1/10/2007 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - QUARTERLY STATUS REPORT **Submitted:**
Title: FOURTH QUARTER 2006 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6978452384/T0606566676.PDF

Document Type: Site Documents **Size :** 9,573 KB
Document Date: 12/21/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: RESULTS OF SOIL VAPOR EXTRACTION WELL INSTALLATION AND PILOT TESTING ACTIVITES
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6146238029/T0606566676.PDF

Document Type: Site Documents **Size :** 3,533 KB
Document Date: 12/20/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: WORKPLANS - OTHER WP **Submitted:**
Title: WORK PLAN FOR ADDITIONAL SITE ASSESSMENT AND WELL INSTALLATION
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7279006779/T0606566676.PDF

Document Type: Site Documents **Size :** 20 KB
Document Date: 12/18/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: CORRESPONDENCE - OTHER **Submitted:**
Title: LIST OF LANDOWNERS FORM
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3501652359/T0606566676.PDF

Document Type: Site Documents **Size :** 42 KB
Document Date: 10/30/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: CORRESPONDENCE - OTHER **Submitted:**
Title: CONFIRMATION OF VERBAL AGREEMENT LETTER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2643110513/T0606566676.PDF

Document Type: Monitoring Reports **Size :** 3,431 KB
Document Date: 10/18/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: ADDENDUM TO THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1237821817/T0606566676.PDF

Document Type: Site Documents **Size :** 65 KB
Document Date: 10/18/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: CORRESPONDENCE - OTHER **Submitted:**
Title: ADDENDUM TO THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2950823724/T0606566676.PDF

Document Type: Monitoring Reports **Size :** 3,431 KB
Document Date: 10/18/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**

Title: ADDENDUM TO THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5706057488/T0606566676.PDF

Document Type: Monitoring Reports **Size :** 5,574 KB
Document Date: 10/12/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3082838296/T0606566676.PDF

Document Type: Site Documents **Size :** 64 KB
Document Date: 10/12/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: SYSTEM START-UP REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5210065543/T0606566676.PDF

Document Type: Site Documents **Size :** 13,035 KB
Document Date: 10/5/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: GROUNDWATER MONITORING / EXTRACTION WELL INSTALLATION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4619001090/T0606566676.PDF

Document Type: Site Documents **Size :** 1,685 KB
Document Date: 9/28/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: WORK PLAN FOR SOIL VAPOR (SVE) WELL INSTALLATION AND SVE PILOT TESTING ACTIVITIES
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6840514957/T0606566676.PDF

Document Type: Site Documents **Size :** 10,581 KB
Document Date: 8/25/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: REPORTS - REMEDIAL ACTION RPT. **Submitted:**
Title: GROUNDWATER EXTRACTION INTERIM REMEDIAL ACTION PLAN (IRAP)
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6738126993/T0606566676.PDF

Document Type: Monitoring Reports **Size :** 3,630 KB
Document Date: 8/15/2006 **Submitted By:** DELTA CONSULTANTS (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2006 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6836316764/T0606566676.PDF

Document Type: Site Documents **Size :** 3,784 KB
Document Date: 6/19/2006 **Submitted By:** NORTHSHORE ENGINEERING (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: BATCH EXTRACTION PILOT TEST AND INTERIM REMIDIAL ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3394259393/T0606566676.PDF

Document Type: Monitoring Reports **Size :** 1,552 KB
Document Date: 5/12/2006 **Submitted By:** NORTHSHORE ENGINEERING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2005 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4064976334/T0606566676.PDF

Document Type: Monitoring Reports **Size :** 1,207 KB
Document Date: 7/12/2005 **Submitted By:** NORTHSHORE ENGINEERING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2005 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7690091788/T0606566676.PDF

Document Type: Site Documents **Size :** 4,519 KB
Document Date: 6/28/2005 **Submitted By:** NORTHSHORE ENGINEERING (CONTRACTOR)
Type: REPORTS - OTHER **Submitted:**
Title: ADDITIONAL SITE ASSESSMENT REPORT ADDENDUM, FIRST QUARTER 2005 GROUNDWATER MONITORING REPORT, AND INTERIM REMEDIAL ACTION PLAN
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3143262565/T0606566676.PDF

Document Type: Monitoring Reports **Size :** 1,468 KB

Document Date: 6/28/2005 **Submitted By:** NORTHSHORE ENGINEERING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FIRST QUARTER 2005 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8198170304/T0606566676.PDF

Document Type: Monitoring Reports **Size :** 1,297 KB
Document Date: 6/27/2005 **Submitted By:** NORTHSHORE ENGINEERING (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2004 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9092300236/T0606566676.PDF

Document Type: Site Documents **Size :**
Document Date: 1/23/2004 **Submitted By:** ZACHARY RICCIARDULLI (REGULATOR)
Type: FILE REVIEW **Submitted:**
Title: FILE REVIEW
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606566676&enforcement_id=6383997

---

23 | **1 of 1** | **ESE** | **0.41 / 2,166.60** | **1,552.52 / 0** | **ALPER CLEANERS**
14420 ELSWORTH ST., SUITE 114
MORENO VALLEY CA 92553 | **ENVIROSTOR**

Estor/EPA ID: 33720002 **Assembly District:** 61
Site Code: **Senate District:** 31
Nat Priority List: NO **Permit Renewal Lead:**
APN: 297140026, 297150012 **Public Partici Spclst:**
Census Tract: 6065046700 **Project Manager:**
Site Type: EVALUATION **County:** RIVERSIDE
Address Description: 14420 ELSWORTH ST., SUITE 114 **Latitude:** 33.9111217208897
Office: CLEANUP CYPRESS **Longitude:** -117.269271944328
Special Program: **Acres:** 0 ACRES
Funding: NOT APPLICABLE **Supervisor:**
Cleanup Status: REFER: 1248 LOCAL AGENCY AS OF 6/7/2004
Cleanup Oversight Agencies: RIVERSIDE COUNTY - LEAD AGENCY
School District:
Past Use that Caused Contam: NONE SPECIFIED
Potential Media Affected: NONE SPECIFIED
Potential Contamin of Concern:

NONE SPECIFIED

Site History:

Status: REFER: 1248 LOCAL AGENCY
Program Type: EVALUATION
CalEnviroScreen Score: 96-100%
Summary Link: https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=33720002

---

24 | **1 of 1** | **WNW** | **0.41 / 2,182.11** | **1,532.07 / -20** | **SPOILED**
2634 E ALESSANDRO BLVD
RIVERSIDE CA 92508 | **C&D**
DEBRIS RECY

County: RIVERSIDE

Activity Type: USED OIL COLLECTION
Phone No: (951) 656-2300

---

25 | **1 of 1** | **ESE** | **0.45 / 2,366.39** | **1,554.70 / 2** | **Moreno Valley Regional Dialysis Ctr**
22620 GOLDENCREST DR STE 101
MORENO VALLEY CA 92553 | **DELISTED**
HAZ

Siteid: 136334
Latitude: 33.911370

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Longitude: -117.267990
Original Source: CHAZ
Record Date: 20-OCT-2017

---

26 | **1 of 3** | **WNW** | **0.45 / 2,389.60** | **1,525.43 / -27** | **ARCO #6345**
2624 E ALESSANDRO BLVD
RIVERSIDE CA | **LOP RIVERSIDE**

Site ID: 970696
Status Code: 9
Status Desc: CLOSED/ACTION COMPLETED
Case Type Code: A
Case Type Desc: AN AQUIFER USED FOR DRINKING WATER SUPPLY HAS BEEN CONTAMINATED
Closed Code: R
Closed Desc: Case referred to RWQCB or oversight
Employee: Briones-LOP

---

26 | **2 of 3** | **WNW** | **0.45 / 2,389.60** | **1,525.43 / -27** | **ARCO #6345**
2624 E ALESSANDRO BLVD
RIVERSIDE CA 92508 | **LUST**

Global ID: T0606500497
Status: OPEN - ELIGIBLE FOR CLOSURE
Status Date: 3/23/2021
Case Type: LUST CLEANUP SITE
Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download
County: RIVERSIDE
Latitude: 33.9172239662441
Longitude: -117.28568315506

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No: 083303023T
Local Case No:
Begin Date: 5/1/1997
Lead Agency: SANTA ANA RWQCB (REGION 8)
Local Agency:
CUF Case: NO
Potential Media of Concern: Aquifer used for drinking water supply
How Discovered Description: Subsurface investigation
Calwater Watershed Name: Santa Ana River - Middle Santa Ana River - Riverside (801.27)
DWR GW Subbasin Name: San Jacinto (8-005)
Disadvantaged Community: Severely Disadvantaged Community
Calenviroscreen Score: 96-100% (highest scores)
Site History:
Potential COC: Gasoline
How Discovered: Other Means
Stop Method: Replace product piping
Stop Description: Documentation of repairs/upgrades prior to 10/2002 unavailable
Case Worker:
File Location: Local Agency

Environmental reports pertaining to subsurface investigations/testing and site remediation performed in conjunction with this project, as well as the Regional Board case file, should be reviewed in their entirety to obtain further details regarding this cleanup effort. Regional Board staff are not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants working for the responsible party.

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 6/9/2021
Action: Notification - Public Notice of Case Closure

Action Type: ENFORCEMENT
Date : 2/24/2020
Action: Staff Letter

Action Type: RESPONSE
Date : 2/13/2020
Action: NPDES / WDR Reports

Action Type: ENFORCEMENT
Date : 2/3/2020

Action: Email Correspondence

Action Type: RESPONSE
Date : 10/31/2019
Action: Monitoring Report - Other

Action Type: RESPONSE
Date : 10/30/2019
Action: Site Assessment Report

Action Type: RESPONSE
Date : 10/2/2019
Action: Correspondence

Action Type: ENFORCEMENT
Date : 8/7/2019
Action: Staff Letter

Action Type: RESPONSE
Date : 6/30/2019
Action: Soil and Water Investigation Workplan - Regulator Responded

Action Type: ENFORCEMENT
Date : 6/3/2019
Action: Technical Correspondence / Assistance / Other

Action Type: RESPONSE
Date : 5/16/2019
Action: Remedial Progress Report - Regulator Responded

Action Type: ENFORCEMENT
Date : 4/22/2019
Action: Technical Correspondence / Assistance / Other

Action Type: ENFORCEMENT
Date : 3/18/2019
Action: File review

Action Type: RESPONSE
Date : 1/31/2019
Action: NPDES / WDR Reports

Action Type: RESPONSE
Date : 1/31/2019
Action: Monitoring Report - Other

Action Type: RESPONSE
Date : 10/30/2018
Action: NPDES / WDR Reports

Action Type: RESPONSE
Date : 10/30/2018
Action: Monitoring Report - Other

Action Type: RESPONSE
Date : 7/30/2018
Action: NPDES / WDR Reports

Action Type: RESPONSE
Date : 7/15/2018
Action: Monitoring Report - Other

Action Type: RESPONSE
Date : 6/26/2018
Action: Email Correspondence - Regulator Responded

Action Type: ENFORCEMENT
Date : 1/25/2018
Action: File review

Action Type: RESPONSE
Date : 1/22/2018
Action: NPDES / WDR Reports

Action Type: RESPONSE
Date : 1/12/2018
Action: Monitoring Report - Other

Action Type: ENFORCEMENT
Date : 11/16/2017
Action: File review

Action Type: RESPONSE
Date : 10/31/2017
Action: NPDES / WDR Reports

Action Type: RESPONSE
Date : 10/31/2017
Action: Monitoring Report - Other

Action Type: RESPONSE
Date : 8/30/2017
Action: Email Correspondence

Action Type: ENFORCEMENT
Date : 8/29/2017
Action: Verbal Communication

Action Type: ENFORCEMENT
Date : 8/7/2017
Action: Staff Letter

Action Type: RESPONSE
Date : 7/31/2017
Action: NPDES / WDR Reports

Action Type: RESPONSE
Date : 7/15/2017
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/1/2017
Action: Well Destruction Workplan - Regulator Responded

Action Type: ENFORCEMENT
Date : 7/1/2017
Action: File review - #RCDEH SITE SUMMARY

Action Type: ENFORCEMENT
Date : 7/1/2017
Action: Referral to Regional Board - #RCDEH notification letters

Action Type: RESPONSE
Date : 6/7/2017
Action: Other Report / Document - Regulator Responded

Action Type: ENFORCEMENT
Date : 5/16/2017
Action: File review

Action Type: RESPONSE
Date : 4/15/2017
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/15/2017
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2016
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2016
Action: Other Report / Document

Action Type: RESPONSE
Date : 7/15/2016
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/15/2016
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 2/15/2016
Action: Other Report / Document

Action Type: RESPONSE
Date : 1/15/2016
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2015
Action: Other Report / Document

Action Type: RESPONSE
Date : 10/15/2015
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 8/4/2015
Action: Other Report / Document

Action Type: RESPONSE
Date : 7/15/2015
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/1/2015
Action: Other Report / Document

Action Type: RESPONSE
Date : 4/15/2015
Action: Monitoring Report - Annually

Action Type: ENFORCEMENT
Date : 4/10/2015
Action: Staff Letter - #RCDEH#041015

Action Type: RESPONSE
Date : 3/30/2015
Action: Other Workplan - Regulator Responded

Action Type: ENFORCEMENT
Date : 3/5/2015
Action: Waste Discharge Requirements

Action Type: RESPONSE
Date : 2/27/2015
Action: Other Workplan

Action Type: ENFORCEMENT
Date : 1/22/2015
Action: Staff Letter - #RCDEH#012215

Action Type: RESPONSE

Date : 1/15/2015
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/15/2014
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 6/2/2014
Action: Pilot Study/ Treatability Report

Action Type: RESPONSE
Date : 5/15/2014
Action: Monitoring Report - Annually

Action Type: RESPONSE
Date : 3/31/2014
Action: Other Report / Document

Action Type: ENFORCEMENT
Date : 2/25/2014
Action: Staff Letter - #RCDEH#022514

Action Type: RESPONSE
Date : 2/10/2014
Action: Pilot Study / Treatability Workplan - Regulator Responded

Action Type: RESPONSE
Date : 1/21/2014
Action: Well Installation Workplan - Regulator Responded

Action Type: RESPONSE
Date : 10/15/2013
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/15/2013
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 5/13/2013
Action: Correspondence

Action Type: RESPONSE
Date : 4/15/2013
Action: Monitoring Report - Annually

Action Type: RESPONSE
Date : 1/15/2013
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2012
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/15/2012
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/15/2012
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/15/2012
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2011

Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/15/2011
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/15/2011
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/15/2011
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 7/15/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/15/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 1/15/2010
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2009
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 8/13/2009
Action: Staff Letter - #RCDEH081309

Action Type: RESPONSE
Date : 8/7/2009
Action: Other Report / Document

Action Type: RESPONSE
Date : 7/15/2009
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/15/2009
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 2/14/2009
Action: Interim Remedial Action Report

Action Type: RESPONSE
Date : 1/15/2009
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 10/15/2008
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 4/15/2008
Action: Monitoring Report - Quarterly

Action Type: ENFORCEMENT
Date : 2/27/2008
Action: Technical Correspondence / Assistance / Other - #RCDEH 022708

Action Type: RESPONSE
Date : 1/15/2008
Action: Monitoring Report - Quarterly

Action Type: REMEDIATION
Date : 12/3/2007
Action: Other (Use Description Field)

Action Type: ENFORCEMENT
Date : 12/3/2007
Action: Staff Letter - #RCDEH120307

Action Type: ENFORCEMENT
Date : 11/19/2007
Action: File review

Action Type: RESPONSE
Date : 10/15/2007
Action: Monitoring Report - Quarterly

Action Type: RESPONSE
Date : 8/24/2007
Action: Other Workplan

Action Type: ENFORCEMENT
Date : 7/13/2007
Action: Staff Letter - #RCDEH 071307

Action Type: Other
Date : 12/1/2002
Action: Leak Stopped

Action Type: Other
Date : 7/9/1997
Action: Leak Reported

Action Type: Other
Date : 7/1/1997
Action: Leak Discovery

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type: Regional Board Caseworker
Contact Name: KYLE WRIGHT
City: RIVERSIDE
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Ste. 500
Email: kyle.wright@waterboards.ca.gov
Phone No: 9513206370

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Open - Eligible for Closure
Status Date: 3/23/2021

Status: Open - Remediation
Status Date: 11/30/2007

Status: Open - Site Assessment
Status Date: 7/1/1997

Status: Open - Case Begin Date
Status Date: 5/1/1997

Status: Open - Site Assessment
Status Date: 5/1/1997

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name:	ARCO #6345	***Potential COC:***	GASOLINE
Site Facility Type:	LUST CLEANUP SITE	***Facility Type:***	
Cleanup Status:	OPEN - REMEDIATION	***Composting Method:***	
Project Status:		***Address:***	2624 E ALESSANDRO BLVD
WDR Place Type:		***City:***	RIVERSIDE
WDR File:		***Zip:***	92508
WDR Order:		***County:***	RIVERSIDE
CUF Priority Assig:		***CUF Claim:***	
CUF Amount Paid:			

File Location: LOCAL AGENCY
Designated Beneficial Use: MUN - Note: Area outside basins not specified-Pot MUN stated.
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0606500497
Cleanup Status Detail: OPEN - REMEDIATION AS OF 11/30/2007
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0606500497&tabname=regulatoryhistory
Potential Media of Concern: AQUIFER USED FOR DRINKING WATER SUPPLY
User Defined Beneficial Use:
DWR GW Sub Basin: San Jacinto (8-005)
Calwater Watershed Name: Santa Ana River - Middle Santa Ana River - Riverside (801.27)
Post Closure Site Management:
Future Land Use:
Cleanup Oversight Agencies: SANTA ANA RWQCB (REGION 8) (LEAD) - CASE #: 083303023T
CASEWORKER: KYLE WRIGHT
RIVERSIDE COUNTY LOP - CASE #: 970696
Gndwater Monitoring Freque: # OF WELLS MONITORED - QUARTERLY : 5, SEMI-ANNUALLY : 1, ANNUALLY : 6

REASONS FOR QUARTERLY OR MONTHLY OR OTHER GROUNDWATER MONITORING:
Well Being Sampled Within First Year of Being Installed - Well installed less than a year.
Well Has Not Shown Reliable Consistency Yet To Warrant Reduction in Sampling Frequency - No trend established.
Designated Beneficial Use Desc: Municipal and Domestic Supply - Note: Area outside basins not specified-Pot Municipal and Domestic Supply stated.
Site History:

Environmental reports pertaining to subsurface investigations/testing and site remediation performed in conjunction with this project, as well as the Regional Board case file, should be reviewed in their entirety to obtain further details regarding this cleanup effort. Regional Board staff are not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants working for the responsible party.

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Open - Remediation
Date : 11/30/2007

Status: Open - Site Assessment
Date : 7/1/1997

Status: Open - Case Begin Date
Date : 5/1/1997

Status: Open - Site Assessment
Date : 5/1/1997

LUST Sites from GeoTracker Search - Cleanup Action Report (as of May 29, 2021)

Action Type:	OTHER (USE DESCRIPTION FIELD)	***Begin Date:***	12/3/2007
Phase:	Water	***End Date:***	
Contaminant Mass Removed:			

Description: 90-day oxygen sparging test

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 2/24/2020

Received Issue Date: 2/24/2020
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6427945&temptable=ENFORCEMENT
Title Description Comments:

EO issued Notice of Termination for ISCO activities under R8-2013-0029

Action Type: Response Requested - Reports
Action Date: 2/13/2020
Received Issue Date: 2/13/2020
Action: NPDES / WDR Reports
Doc Link:
Title Description Comments:

Request for Termination of Permit Coverage under ISCO WDR (oxygen sparging)

Action Type: Other Regulatory Actions
Action Date: 2/3/2020
Received Issue Date: 2/3/2020
Action: Email Correspondence
Doc Link:
Title Description Comments:

Notified Orion of pending RB caseworker reassignment

Action Type: Response Requested - Other
Action Date: 10/2/2019
Received Issue Date: 10/2/2019
Action: Correspondence
Doc Link:
Title Description Comments:

Orion sent correspondence to notify RWQCB of consultant change

Action Type: Other Regulatory Actions
Action Date: 8/7/2019
Received Issue Date: 8/7/2019
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6411547&temptable=ENFORCEMENT
Title Description Comments:

issued conditional agency approval

Action Type: Response Requested - Workplans
Action Date: 6/30/2019
Received Issue Date: 6/28/2019
Action: Soil and Water Investigation Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6000994
Title Description Comments:

Work Plan for Confirmation Soil Borings

Action Type: Other Regulatory Actions
Action Date: 6/3/2019
Received Issue Date: 6/3/2019
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

VJB sent email to provide conditional approval for GWS scope and req'd submission of WP for CBS scope by June 30th.

Action Type: Response Requested - Reports

Action Date: 5/16/2019
Received Issue Date: 5/16/2019
Action: Remedial Progress Report - Regulator Responded
Doc Link:
Title Description Comments:

Project Update - Stratus provided email response to RB correspondence dated 4/22/19 - proposed scope for GWS, supplemental depth-discrete GWS & recommended CBS scope be postponed for now.

Action Type: Other Regulatory Actions
Action Date: 4/22/2019
Received Issue Date: 4/22/2019
Action: Technical Correspondence / Assistance / Other
Doc Link:
Title Description Comments:

Spoke w/RP rep. - Stratus (Henry Ames) - agency completed historical review, identified data gaps and add'l action items - prop. owner info., MW-6 thru MW-8 (status?), problematic GW data (MW-1 through MW-5, etc. - submerged well construction), CSBs req'd to gauge remedial success/quantify residual & vertical delineation issue of hot spots(e.g. MW-9 & OS-2). Sent follow up email to memorialize concerns, req'd follow up/recommendations to address above concerns.

Action Type: Other Regulatory Actions
Action Date: 3/18/2019
Received Issue Date: 3/18/2019
Action: File review
Doc Link:
Title Description Comments:

Rev'd 4th Qtr GH2O/Status Report and 4th Qtr ISCO WDR (oxygen sparge) - completed historical review, identified add'l agency requirements and project path, discussed w/KRW. VJB to follow up w/RP/consultant

Action Type: Response Requested - Reports
Action Date: 1/31/2019
Received Issue Date: 1/31/2019
Action: NPDES / WDR Reports
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5988510
Title Description Comments:

4th Qtr 2018 WDR Report (Oct-Dec) - Moderately elevated PHCs & MtBE persist in PZ-1, MW-9, MW-11, OS-3 & OS-6, rebound noted in OS-3/6 - further evaluation needed to see if increase warrants resumption of OS activities. Post remediation monitoring for plume stability will continue.

Action Type: Response Requested - Reports
Action Date: 1/31/2019
Received Issue Date: 1/14/2019
Action: Monitoring Report - Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5988508
Title Description Comments:

4th Qtr 2018 Groundwater Monitoring & Remedial Status Report - Moderately elevated PHCs & MtBE persist in PZ-1, MW-9, MW-11, OS-3 & OS-6, rebound noted in OS-3/6 - further evaluation needed to see if increase warrants resumption of OS activities. Post remediation monitoring for plume stability will continue.

Action Type: Response Requested - Reports
Action Date: 10/30/2018
Received Issue Date: 10/30/2018
Action: NPDES / WDR Reports
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5979293
Title Description Comments:

3rd Qtr 2018 WDR Report

Action Type: Response Requested - Reports
Action Date: 10/30/2018
Received Issue Date: 10/15/2018
Action: Monitoring Report - Other

Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5977624
Title Description Comments:

3rd Qtr 2018 Groundwater Monitoring/Remediation Status Report - OS activities suspended - post remediation monitoring is ongoing

Action Type: Response Requested - Reports
Action Date: 7/30/2018
Received Issue Date: 7/27/2018
Action: NPDES / WDR Reports
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5971802
Title Description Comments:

2nd Qtr 2018 Self Monitoring (WDR) Report - Apr thru June - Noted moderate/increasing PCE concentrations being reported in site wells analyzed for full scan VOCs per WDR - e.g. MW-1, MW-11 and PZ-1 - evaluate potential source

Action Type: Response Requested - Reports
Action Date: 7/15/2018
Received Issue Date: 7/12/2018
Action: Monitoring Report - Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5971801
Title Description Comments:

2nd Qtr 2018 Groundwater Monitoring Report - VJB already sent agency concurrence to terminate OS activities and commence with post-remediation monitoring

Action Type: Response Requested - Other
Action Date: 6/26/2018
Received Issue Date: 6/26/2018
Action: Email Correspondence - Regulator Responded
Doc Link:
Title Description Comments:

Project Update - Rec'd email from Stratus (Henry Ames) - based on most recent groundwater data, Stratus is requesting permission to terminate OS activities and commence with post-remediation monitoring. - VJB sent email response to provide conditional agency approval/concurrence

Action Type: Other Regulatory Actions
Action Date: 1/25/2018
Received Issue Date: 1/25/2018
Action: File review
Doc Link:
Title Description Comments:

Rev'd 4th Qtr GWS Report & WDR (oxygen sparging) - minor increases in MtBE noted in MW-3, OS-3 & VW-8, but decreased in MW-9 & PZ-1 - Stratus recommended continued oxygen sparging to further reduce MtBE.

Action Type: Response Requested - Reports
Action Date: 1/22/2018
Received Issue Date: 1/22/2018
Action: NPDES / WDR Reports
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5955087
Title Description Comments:

4th Qtr 2017 WDR Report - MRP No. R8-2013-0029-031

Action Type: Response Requested - Reports
Action Date: 1/12/2018
Received Issue Date: 1/12/2018
Action: Monitoring Report - Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5955084
Title Description Comments:

4th Quarter 2017 Groundwater Monitoring Report/Remedial Status Report

Action Type: Other Regulatory Actions

Action Date: 11/16/2017
Received Issue Date: 11/16/2017
Action: File review
Doc Link:
Title Description Comments:

Rev'd 3rd Qtr GWS Report & WDR (oxygen sparging) - elevated MtBE noted in MW-9 & PZ-1 - Stratus recommended continued oxygen sparging to reduce elevated MtBE.

Action Type: Response Requested - Reports
Action Date: 10/31/2017
Received Issue Date: 10/30/2017
Action: NPDES / WDR Reports
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5955074
Title Description Comments:

MRP No. R8-2013-0029-031 (oxygen sparging)

Action Type: Response Requested - Reports
Action Date: 10/31/2017
Received Issue Date: 10/12/2017
Action: Monitoring Report - Other
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5955071
Title Description Comments:

Groundwater Monitoring/Remediation Status Report

Action Type: Response Requested - Other
Action Date: 8/30/2017
Received Issue Date: 8/30/2017
Action: Email Correspondence
Doc Link:
Title Description Comments:

Progress Report - Follow-up RE: MW-13 - RP wishes to temporarily suspend the request to abandon offsite well MW-13, pending evaluation of the changing MTBE concentrations at wells PZ-1, MW-11, and OS-3 during next two quarterly monitoring events.

Action Type: Other Regulatory Actions
Action Date: 8/29/2017
Received Issue Date: 8/29/2017
Action: Verbal Communication
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6335101&temptable=ENFORCEMENT
Title Description Comments:

VJB rev'd 2nd Qtr 2017 GWS Report, 2nd Qtr WDR (R8-2013-0029-0031) & WP for Well Abandonment of MW-13 - called consultant (Stratus - Henry Ames), discussed current site data and WDR monitoring - MW-13 served as compliance point based upon injection via OS-1 & OS-4 thru OS-6 under historically NE gradient, but is less critical if more recent gradient trend to W persists such that GWS @ MW-12/14/15 may suffice. However, Stratus noted that trends show moderately elevated MtBE proximate OS-3/PZ-1 (northern site boundary). OS-3 was not originally incorporated into WDR/M&RP, but could be added via MRP revision. However, ISCO @ OS-3 would trigger need for MW-13 (replace) or alternative well for lateral compliance monitoring point. Henry will discuss options w/RP and follow-up.

Action Type: Other Regulatory Actions
Action Date: 8/7/2017
Received Issue Date: 8/7/2017
Action: Staff Letter
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6328939&temptable=ENFORCEMENT
Title Description Comments:

VJB sent agency correspondence to approve proposal to suspend soil gas testing.

Action Type: Response Requested - Reports
Action Date: 7/31/2017
Received Issue Date: 7/19/2017

Action: NPDES / WDR Reports
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5942235
Title Description Comments:

WDR (ISCO - oxygen sparging) - Monitoring & Reporting (R8-2013-0029-0031)

Action Type: Response Requested - Reports
Action Date: 7/15/2017
Received Issue Date: 7/13/2017
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6129657
Title Description Comments:

2nd Qtr 2017 Monitoring Report

Action Type: Referral to Other Agency
Action Date: 7/1/2017
Received Issue Date: 7/1/2017
Action: Referral to Regional Board - #RCDEH notification letters
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6325276&temptable=ENFORCEMENT
Title Description Comments:

RCDEH transferred regulatory oversight for this cleanup to the RWQCB. All future oversight will be conducted by RWQCB.

Action Type: Other Regulatory Actions
Action Date: 7/1/2017
Received Issue Date: 7/1/2017
Action: File review - #RCDEH SITE SUMMARY
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6185018&temptable=ENFORCEMENT
Title Description Comments:

RCDEH SITE SUMMARY as of transfer to RWQCB on 7/1/2017

Action Type: Response Requested - Workplans
Action Date: 7/1/2017
Received Issue Date: 5/23/2017
Action: Well Destruction Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5942468
Title Description Comments:

Well Abandonment Work Plan

Action Type: Response Requested - Other
Action Date: 6/7/2017
Received Issue Date: 6/2/2017
Action: Other Report / Document - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5933354
Title Description Comments:

Request to Suspend Soil Gas Testing

Action Type: Other Regulatory Actions
Action Date: 5/16/2017
Received Issue Date: 5/16/2017
Action: File review
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6320117&temptable=ENFORCEMENT
Title Description Comments:

RCDEH uploaded site file

Action Type: Response Requested - Reports

Action Date: 4/15/2017
Received Issue Date: 4/14/2017
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6129656
Title Description Comments:

1st Quarter 2017 Monitoring Report

Action Type: Response Requested - Reports
Action Date: 1/15/2017
Received Issue Date: 1/17/2017
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6129655
Title Description Comments:

4th Qrt. 2016 Groundwater Report - RCDEH reviewed 4th Qrt.2016 GW Monitoring Report

Action Type: Response Requested - Other
Action Date: 10/15/2016
Received Issue Date: 11/7/2016
Action: Other Report / Document
Doc Link:
Title Description Comments:

Oxygen Sparging Monitoring Report, - July -September 2016 - RCDEH reviewed Oxygen Sparging Monitoring Report

Action Type: Response Requested - Reports
Action Date: 10/15/2016
Received Issue Date: 10/15/2016
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

3rd Qrt. 2016 GW Monitoring Report - RCDEH reviewed 3rd Qtr.2016 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 7/15/2016
Received Issue Date: 7/18/2016
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6108606
Title Description Comments:

2nd Qrt. 2016 GW Monitoring Report - RCDEH reviewed 2nd Qrt 2016 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 4/15/2016
Received Issue Date: 4/19/2016
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

- RCDEH reviewed Annual Cleanup Evaluation Report and Quarterly Sampling Results - First Qrt. 2016

Action Type: Response Requested - Other
Action Date: 2/15/2016
Received Issue Date: 2/3/2016
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6114397
Title Description Comments:

Oxygen Sparging Monitoring Report, October - December 2015 - RCDEH reviewed Oxygen Sparging Monitoring Report

Action Type: Response Requested - Reports

Action Date: 1/15/2016
Received Issue Date: 1/19/2016
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

4th Qrt. 2015 GW Monitoring Report - RCDEH reviewed 4th Qrt.2015 GW Monitoring Report

Action Type: Response Requested - Other
Action Date: 10/15/2015
Received Issue Date: 11/5/2015
Action: Other Report / Document
Doc Link:
Title Description Comments:

Oxygen Sparging Monitoring Report, - July -September 2015 - RCDEH reviewed Oxygen Sparging Monitoring Report

Action Type: Response Requested - Reports
Action Date: 10/15/2015
Received Issue Date: 10/19/2015
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

3rd Qrt 2015 GW Monitoring Report - RCDEH reviewed 3rd Qrt. 2015 Groundwater Monitoring Report

Action Type: Response Requested - Other
Action Date: *8/4/2015
Received Issue Date: 8/4/2015
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5855235
Title Description Comments:

Oxygen Sparging Monitoring Report, April- June 2015

Action Type: Response Requested - Reports
Action Date: 7/15/2015
Received Issue Date: 7/17/2015
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6099728
Title Description Comments:

2nd Qrt. 2015 GW Monitoring

Action Type: Response Requested - Other
Action Date: *7/1/2015
Received Issue Date: 7/6/2015
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5827646
Title Description Comments:

Report documenting remediation startup and implementation of the RAP

Action Type: Response Requested - Reports
Action Date: 4/15/2015
Received Issue Date: 4/16/2015
Action: Monitoring Report - Annually
Doc Link:
Title Description Comments:

2015 Annual Cleanup Evaluation Report - RCDEH reviewed 2015 Annual Cleanup Evaluation Reort

Action Type: Other Regulatory Actions

Action Date: 4/10/2015
Received Issue Date: 4/10/2015
Action: Staff Letter - #RCDEH#041015
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6241535&temptable=ENFORCEMENT
Title Description Comments:

RCDEH response to Cleanup Implenmentation Plan and Workplan For Soil Gas Monitoring

Action Type: Response Requested - Workplans
Action Date: 3/30/2015
Received Issue Date: 3/30/2015
Action: Other Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5836860
Title Description Comments:

Workplan for Soil Gas Monitoring - RCDEH reviewed workplan

Action Type: Enforcement/Orders
Action Date: 3/5/2015
Received Issue Date: 3/5/2015
Action: Waste Discharge Requirements
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6238044&temptable=ENFORCEMENT
Title Description Comments:

RB issued In-situ WDR R8-2013-0029-031

Action Type: Response Requested - Workplans
Action Date: 2/27/2015
Received Issue Date: 3/2/2015
Action: Other Workplan
Doc Link:
Title Description Comments:

Workplan addendum addressing 1/22/15 RCDEH directive letter conditions in response to (Remedial Action Plan, 10/28/14) - RCDEH reviewed Cleanup Implementation Plan

Action Type: Other Regulatory Actions
Action Date: 1/22/2015
Received Issue Date: 1/22/2015
Action: Staff Letter - #RCDEH#012215
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6234324&temptable=ENFORCEMENT
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 1/15/2015
Received Issue Date: 1/28/2015
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

- RCDEH reviewed 4th Qrt. 2014 Status Report

Action Type: Response Requested - Reports
Action Date: 7/15/2014
Received Issue Date: 7/28/2014
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6094597
Title Description Comments:

2nd Qtr 2014 Quarterly Status Report - RCDEH reviewed 2nd Qrt. 2014 Status Report

Action Type: Response Requested - Reports
Action Date: *6/2/2014
Received Issue Date: 6/24/2014
Action: Pilot Study/ Treatability Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5798804
Title Description Comments:

- Report due documenting A/S well, GW well installation and A/S pilot test, RCDEH reviewed documents -Well Installation Report / Air Sparge Test Report

Action Type: Response Requested - Reports
Action Date: *5/15/2014
Received Issue Date: 5/15/2014
Action: Monitoring Report - Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6094044
Title Description Comments:

Annual Cleanup Evaluation Report - RCDEH reviewed 2014 Annual Evaluation Report

Action Type: Response Requested - Other
Action Date: 3/31/2014
Received Issue Date: 3/31/2014
Action: Other Report / Document
Doc Link:
Title Description Comments:

List of Landowner Form

Action Type: Other Regulatory Actions
Action Date: 2/25/2014
Received Issue Date: 2/25/2014
Action: Staff Letter - #RCDEH#022514
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6193767&temptable=ENFORCEMENT
Title Description Comments:

RCDEH directive letter approving A/S, GW well installation and A/S Pilot test with conditions

Action Type: Response Requested - Workplans
Action Date: 2/10/2014
Received Issue Date: 2/10/2014
Action: Pilot Study / Treatability Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5798252
Title Description Comments:

- RCDEH reviewed workplan for Air Sparge Pilot Testing

Action Type: Response Requested - Workplans
Action Date: 1/21/2014
Received Issue Date: 1/21/2014
Action: Well Installation Workplan - Regulator Responded
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5798239
Title Description Comments:

- RCDEH reviewed workplan to advance two air sparge wells and one GW well

Action Type: Response Requested - Reports
Action Date: 10/15/2013
Received Issue Date: 10/21/2013
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6090834
Title Description Comments:

Q3-2013 GW Monitoring Report - RCDEH reviewed Q3-2013 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 7/15/2013
Received Issue Date: 7/25/2013
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6081635
Title Description Comments:

Q2-2013 GW Monitoring Report - RCDEH reviewed Q2-2013 GW Monitoring Report

Action Type: Response Requested - Other
Action Date: 5/13/2013
Received Issue Date: 5/13/2013
Action: Correspondence
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5772928
Title Description Comments:

Notification of Transfer of Ownership - RCDEH reviewed notification of change in ownership

Action Type: Response Requested - Reports
Action Date: 4/15/2013
Received Issue Date: 4/22/2013
Action: Monitoring Report - Annually
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6081634
Title Description Comments:

Annual Cleanup Evaluation Report - 1st Qrt. 2013 - RCDEH reviewed Annual Cleanup Evaluation Report - 1st Qrt. 2013

Action Type: Response Requested - Reports
Action Date: 1/15/2013
Received Issue Date: 1/22/2013
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6081633
Title Description Comments:

4th Qrt. 2012 Status Report

Action Type: Response Requested - Reports
Action Date: 10/15/2012
Received Issue Date: 10/24/2012
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6081632
Title Description Comments:

Q3-2012 GW Monitoring Report - RCDEH reviewed Q3-2012 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 7/15/2012
Received Issue Date: 7/18/2012
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6076310
Title Description Comments:

Q2-2012 GW Monitoring Report - RCDEH reviewed Q2-2012 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 4/15/2012
Received Issue Date: 4/17/2012
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6076309
Title Description Comments:

Q1-2012 Annual Cleanup Evaluation Report

Action Type: Response Requested - Reports
Action Date: 1/15/2012
Received Issue Date: 1/24/2012
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6076308
Title Description Comments:

Q4-2011 GW Monitoring Report - RCDEH reviewed 4th Qrt. 2011 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 10/15/2011
Received Issue Date: 10/20/2011
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6076307
Title Description Comments:

Q3-2011 GW Monitoring Report - RCDEH reviewed 3rd Qrt. 2011 GW Monitoring Report.

Action Type: Response Requested - Reports
Action Date: 7/15/2011
Received Issue Date: 7/14/2011
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6076306
Title Description Comments:

Q2-2011 GW Monitoring Report - RCDEH reviewed 2nd Qrt 2011 GW Monitoring report

Action Type: Response Requested - Reports
Action Date: 4/15/2011
Received Issue Date: 4/18/2011
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6076305
Title Description Comments:

Q1-2011 Annual Cleanup Evaluation Report

Action Type: Response Requested - Reports
Action Date: 1/15/2011
Received Issue Date: 1/23/2011
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=6076304
Title Description Comments:

Q4-2010 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 10/15/2010
Received Issue Date: 10/19/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5650665
Title Description Comments:

Groundwater Monitoring Report - RCDEH reviewed Quarterly Report 3rd Quarter 2010

Action Type: Response Requested - Reports
Action Date: 7/15/2010
Received Issue Date: 7/26/2010
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5650421
Title Description Comments:

Groundwater Monitoring Report - RCDEH reviewed Quarterly Report 2nd Qoarter 2010

Action Type: Response Requested - Reports
Action Date: 4/15/2010
Received Issue Date: 4/15/2010
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Annual Cleanup Evaluation Report

Action Type: Response Requested - Reports
Action Date: 1/15/2010
Received Issue Date: 1/15/2010
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Groundwater Monitoring Report

Action Type: Response Requested - Reports
Action Date: 10/15/2009
Received Issue Date: 10/19/2009
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5651545
Title Description Comments:

Groundwater Monitoring Report - Q3-09 GW Monitoring Report, RCDEH reviewed Third Quarter 2009 Quarterly Report

Action Type: Other Regulatory Actions
Action Date: 8/13/2009
Received Issue Date: 8/13/2009
Action: Staff Letter - #RCDEH081309
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6027498&temptable=ENFORCEMENT
Title Description Comments:

GW Monitoring Frequency Letter

Action Type: Response Requested - Other
Action Date: 8/7/2009
Received Issue Date: 8/10/2009
Action: Other Report / Document
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5648195
Title Description Comments:

- Ozone Sparge Test Report Addendum, RCDEH reviewed Ozone Sparge Test Report

Action Type: Response Requested - Reports
Action Date: 7/15/2009
Received Issue Date: 7/16/2009
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5645258
Title Description Comments:

- Q2-09 GW Monitoring Report, RCDEH reviewed second quarter 2009 status report

Action Type: Response Requested - Reports
Action Date: 4/15/2009
Received Issue Date: 4/15/2009
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

- Q1-09 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: *2/14/2009
Received Issue Date: 2/23/2009
Action: Interim Remedial Action Report
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5565713
Title Description Comments:

Interim Remedial Action Report - 90-day OS test report due 5/30/08, RCDEH reviewed Well Installation and Ozone Sparge Test Report

Action Type: Response Requested - Reports
Action Date: 1/15/2009
Received Issue Date: 1/20/2009
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5629163
Title Description Comments:

- Q4-08 GW Monitoring Report, RCDEH reviewed fourth quarter 2008 status report

Action Type: Response Requested - Reports
Action Date: 1/15/2009
Received Issue Date: 1/20/2009
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5625062
Title Description Comments:

Fourth Quarter 2008 Quarterly Report - Q4-08 Monitoring Report., RCDEH reviewed 4th Qtr.2008 Quarterly Report

Action Type: Response Requested - Reports
Action Date: 10/15/2008
Received Issue Date: 10/15/2008
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

- Q3-08 GW Monitoring Report

Action Type: Response Requested - Reports
Action Date: 4/15/2008
Received Issue Date: 5/1/2008
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - Q1 08 Quarterly GW Monitoring Report

Action Type: Other Regulatory Actions
Action Date: 2/27/2008
Received Issue Date: 2/27/2008
Action: Technical Correspondence / Assistance / Other - #RCDEH 022708
Doc Link:
Title Description Comments:

RCDEH sent letter notifying RP of newly assigned staff for regulatory oversight.

Action Type: Response Requested - Reports
Action Date: 1/15/2008
Received Issue Date: 1/16/2008
Action: Monitoring Report - Quarterly
Doc Link: https://geotracker.waterboards.ca.gov/view_documents_all?global_id=T0606500497&doc_id=5532495
Title Description Comments:

Monitoring Report - Quarterly - Q4 07 Quarterly GW Monitoring Report

Action Type: Other Regulatory Actions
Action Date: 12/3/2007
Received Issue Date: 12/3/2007
Action: Staff Letter - #RCDEH120307
Doc Link:
Title Description Comments:

RCDEH sent letter accepting IRAP for 90-day OS test.

Action Type: Other Regulatory Actions
Action Date: 11/19/2007
Received Issue Date: 11/19/2007
Action: File review
Doc Link:
Title Description Comments:

Quarterly reporting

Action Type: Response Requested - Reports
Action Date: 10/15/2007
Received Issue Date: 10/17/2007
Action: Monitoring Report - Quarterly
Doc Link:
Title Description Comments:

Monitoring Report - Quarterly - Q3-07 Quarterly remediation progress reporting

Action Type: Response Requested - Workplans
Action Date: 8/24/2007
Received Issue Date: 8/28/2007
Action: Other Workplan
Doc Link:
Title Description Comments:

Other Workplan - Plan for feasibility testing due 8/24/07

Action Type: Other Regulatory Actions
Action Date: 7/13/2007
Received Issue Date: 7/13/2007
Action: Staff Letter - #RCDEH 071307
Doc Link:
Title Description Comments:

RCDEH sent letter requesting plans for gw remediation feasibility testing

Action Type: Cleanup Action
Action Date: 12/3/2007
Received Issue Date:
Action: Other (Use Description Field)
Doc Link:
Title Description Comments:

90-day oxygen sparging test

Action Type: Leak Action
Action Date: 12/1/2002
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

Action Type: Leak Action

Action Date: 7/9/1997
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 7/1/1997
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Enforcement - Other
Action Date:
Received Issue Date:
Action: Unknown
Doc Link:
Title Description Comments:

Action Type: Response Requested - Reports
Action Date: 10/31/2019
Received Issue Date:
Action: Monitoring Report - Other
Doc Link:
Title Description Comments:

3rd Quarter 2019 Groundwater Monitoring Report

Action Type: Response Requested - Reports
Action Date: 10/30/2019
Received Issue Date:
Action: Site Assessment Report
Doc Link:
Title Description Comments:

Confirmation Soil Sampling Report

LUST Sites from GeoTracker Search - Site Maps (as of May 29, 2021)

Title: CONFIRMATION SOIL BORING REPORT (CB-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/1820196986/T0606500497.PDF
Size : 164 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 10/31/2019*

Title: CONFIRMATION SOIL BORING REPORT (CB-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3532113134/T0606500497.PDF
Size : 164 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 10/31/2019*

Title: CONFIRMATION SOIL BORING REPORT (CB-4)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2263907313/T0606500497.PDF
Size : 197 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 10/31/2019*

Title: CONFIRMATION SOIL BORING REPORT (CB-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/1751689076/T0606500497.PDF
Size : 163 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 10/31/2019*

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/8244941055/T0606500497.PDF
Size : 226 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/16/2015

Title: WELL INSTALLATION REPORT (MW-15, OS-5 AND OS-6) (OS-6)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/9376590788/T0606500497.PDF
Size : 73 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 6/18/2014

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/7649619400/T0606500497.PDF
Size : 186 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 6/18/2014

Title: WELL INSTALLTION REPORT (MW-15, OS-5 AND OS-6) (MW-15)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/1674644231/T0606500497.PDF
Size : 71 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 6/18/2014

Title: WELL INSTALLATION REPORT (MW-15, OS-5 AND OS-6) (OS-5)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2299370944/T0606500497.PDF
Size : 74 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 6/18/2014

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/7083208203/T0606500497.PDF
Size : 183 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 5/15/2014

Title: SB-1 (SB-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/1854398369/T0606500497.PDF
Size : 133 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: MW-2 (MW-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/1836491405/T0606500497.PDF
Size : 134 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: SB-3 (SB-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2395283520/T0606500497.PDF
Size : 134 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: MW-11 (MW-11)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/6216916918/T0606500497.PDF
Size : 77 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: MW-4 (MW-4)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5838114440/T0606500497.PDF
Size : 80 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: MW-1 (MW-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3982038140/T0606500497.PDF
Size : 137 KB

Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: MW-3 (MW-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/7765253722/T0606500497.PDF
Size : 136 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: MW-9 (MW-9)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3623717546/T0606500497.PDF
Size : 80 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: MW-10 (MW-10)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5839522600/T0606500497.PDF
Size : 78 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: SB-4 (SB-4)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/9247593700/T0606500497.PDF
Size : 131 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: SB-7 (SB-7)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/9583663225/T0606500497.PDF
Size : 73 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: MW-5 (MW-5)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2410031914/T0606500497.PDF
Size : 78 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: SB-2 (SB-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2523299455/T0606500497.PDF
Size : 134 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: SB-5 (SB-5)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3705352723/T0606500497.PDF
Size : 132 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: SB-8 (SB-8)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5896067321/T0606500497.PDF
Size : 57 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: SB-6 (SB-6)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/7439160943/T0606500497.PDF
Size : 66 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/11/2012

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/8255792200/T0606500497.PDF
Size : 78 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Submitted: 4/9/2010

Title: ARCO 6345 BORING LOG, OS-3 (OS-3)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/4934723377/T0606500497.PDF
Size : 161 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted: 2/11/2009

Title: ARCO 6345 BORING LOG, OS-4 (OS-4)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/8289461433/T0606500497.PDF
Size : 162 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted: 2/11/2009

Title: ARCO 6345 BORING LOG, OS-2 (OS-2)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5975365757/T0606500497.PDF
Size : 165 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted: 2/11/2009

Title: ARCO 6345 BORING LOG, OS-1 (OS-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/2422387242/T0606500497.PDF
Size : 162 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted: 2/11/2009

Title: ARCO 6345 BORING LOG, PZ-1 (PZ-1)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/1979126453/T0606500497.PDF
Size : 153 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted: 2/11/2009

Title: GEO_BORE (MW-12)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/5049468815/T0606500497.pdf
Size : 46 KB
Submitted By: DELTA ENVIRONMENTAL (CONTRACTOR)
Submitted: 2/8/2006

Title: GEO_BORE (MW-13)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/3858061075/T0606500497.pdf
Size : 45 KB
Submitted By: DELTA ENVIRONMENTAL (CONTRACTOR)
Submitted: 2/8/2006

Title: GEO_BORE (MW-14)
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_bore/6334869205/T0606500497.pdf
Size : 47 KB
Submitted By: DELTA ENVIRONMENTAL (CONTRACTOR)
Submitted: 2/8/2006

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/2090850651/T0606500497.pdf
Size : 28 KB
Submitted By: DELTA ENVIRONMENTAL (CONTRACTOR)
Submitted: 2/8/2006

Title: GEO_MAP
Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_map/5796264469/T0606500497.pdf
Size : 30 KB
Submitted By: DELTA ENVIRONMENTAL (CONTRACTOR)
Submitted: 9/22/2005

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents
Document Date: 2/16/2021*
Type: CORRESPONDENCE
Size : 141 KB
Submitted By: MIGUEL TSENG (AUTH_RP)
Submitted:
Title: 2021-0216-3055-NOTICE OF CHANGE IN TSO PM
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1320275068/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 46,061 KB
Document Date: 1/8/2021* **Submitted By:** MIGUEL TSENG (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: SECOND SEMIANNUAL 2020 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2381536662/T0606500497.PDF

Document Type: Site Documents **Size :** 2,685 KB
Document Date: 8/11/2020* **Submitted By:** MIGUEL TSENG (AUTH_RP)
Type: REQUEST FOR CLOSURE **Submitted:**
Title: 01RIV-CLOSURE REQUEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8506527245/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 21,222 KB
Document Date: 7/13/2020* **Submitted By:** MIGUEL TSENG (AUTH_RP)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: FIRST SEMIANNUAL 2020 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5260521650/T0606500497.PDF

Document Type: Site Documents **Size :** 36 KB
Document Date: 2/25/2020* **Submitted By:** MIGUEL TSENG (AUTH_RP)
Type: EMAIL CORRESPONDENCE **Submitted:**
Title: NOTIFICATION - CHANGE IN GWMR SCHEDULE
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8479853749/T0606500497.PDF

Document Type: Site Documents **Size :**
Document Date: 2/24/2020 **Submitted By:** VALERIE J. JAHN-BULL (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6427945

Document Type: Site Documents **Size :** 6,711 KB
Document Date: 1/30/2020* **Submitted By:** MIGUEL TSENG (AUTH_RP)
Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, OCTOBER - DECEMBER 2019
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3919876337/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 10,744 KB
Document Date: 1/9/2020* **Submitted By:** MIGUEL TSENG (AUTH_RP)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2019 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8041911244/T0606500497.PDF

Document Type: Site Documents **Size :** 220 KB
Document Date: 12/4/2019* **Submitted By:** MIGUEL TSENG (AUTH_RP)
Type: CORRESPONDENCE **Submitted:**
Title: 2019-1204-RIV-NOTICE OF CHANGE IN TSO PM
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2211693823/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 6,927 KB
Document Date: 10/31/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: THIRD QUARTER 2019 GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6382049798/T0606500497.PDF

Document Type: Site Documents **Size :** 5,675 KB
Document Date: 10/30/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: CONFIRMATION SOIL BORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6379467904/T0606500497.PDF

Document Type: Site Documents **Size :** 4,306 KB
Document Date: 10/30/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, JULY - SEPTEMBER 2019
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2532736003/T0606500497.PDF

Document Type: Site Documents **Size :** 87 KB
Document Date: 10/2/2019* **Submitted By:** MIGUEL TSENG (AUTH_RP)
Type: CORRESPONDENCE **Submitted:**
Title: CHANGE OF CONSULTANT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7258623600/T0606500497.PDF

Document Type: Site Documents **Size :**
Document Date: 8/7/2019 **Submitted By:** VALERIE J. JAHN-BULL (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6411547

Document Type: Monitoring Reports **Size :** 6,486 KB
Document Date: 7/30/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: TSO 97610-6345 073019 SECOND QUARTER 2019 MONITORING AND STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5866518497/T0606500497.PDF

Document Type: Site Documents **Size :** 4,330 KB
Document Date: 7/30/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: TSO 97610-6345 190801 STRATUS OXYGEN SPARGING MONITORING REPORT, APRIL - JUNE 2019
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9603982031/T0606500497.PDF

Document Type: Site Documents **Size :** 2,300 KB
Document Date: 6/28/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER WORKPLAN **Submitted:**
Title: WORKPLAN FOR CONFIRMATION SOIL BORINGS
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9270492792/T0606500497.PDF

Document Type: Site Documents **Size :** 5,330 KB
Document Date: 4/30/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: TESORO 97610-6345 FIRST QUARTER 2019 WASTE DISCHARGE MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2016714930/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 6,899 KB
Document Date: 4/15/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: TSO 97610-6345 041519 FIRST QUARTER 2019 MONITORING AND STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1020337045/T0606500497.PDF

Document Type: Site Documents **Size :** 4,045 KB
Document Date: 1/31/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, OCTOBER - DECEMBER 2018
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3189038217/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 7,077 KB
Document Date: 1/14/2019* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2018 MONITORING AND STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9170874476/T0606500497.PDF

Document Type: Site Documents **Size :** 4,030 KB
Document Date: 10/30/2018 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: TSO 97610-6345 OXYGEN SPARGING MONITORING REPORT, JULY - SEPTEMBER 2018
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7821121454/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 5,459 KB

Document Date: 10/15/2018 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: TSO 97610-6345 THIRD QUARTER 2018 MONITORING AND STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1375305414/T0606500497.PDF

Document Type: Site Documents **Size :** 4,013 KB
Document Date: 8/1/2018 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, APRIL - JUNE 2018
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1628775238/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 5,956 KB
Document Date: 7/12/2018 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: SECOND QUARTER 2018 MONITORING AND STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2920340418/T0606500497.PDF

Document Type: Site Documents **Size :** 3,970 KB
Document Date: 4/30/2018* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, JANUARY - MARCH 2018
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4978299081/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 7,901 KB
Document Date: 4/13/2018* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: TSO 97610-6345 180415 STRATUS FIRST QUARTER 2018 MONITORING AND STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8562149286/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 7,901 KB
Document Date: 4/13/2018* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY **Submitted:**
Title: TSO 97610-6345 180415 STRATUS FIRST QUARTER 2018 MONITORING AND STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7113327264/T0606500497.PDF

Document Type: Site Documents **Size :** 4,172 KB
Document Date: 1/22/2018 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, OCTOBER - DECEMBER 2017
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6957252204/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 5,498 KB
Document Date: 1/12/2018 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FOURTH QUARTER 2017 MONITORING AND STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9656946003/T0606500497.PDF

Document Type: Site Documents **Size :** 3,943 KB
Document Date: 10/30/2017* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, JULY - SEPTEMBER 2017
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1982093513/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 6,319 KB
Document Date: 10/12/2017* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: TSO 97610-6345 STRATUS THIRD QUARTER 2017 MONITORING & STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8400384724/T0606500497.PDF

Document Type: Site Documents **Size :**

Document Date: 8/29/2017 **Submitted By:** VALERIE J. JAHN-BULL (REGULATOR)
Type: VERBAL COMMUNICATION **Submitted:**
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6335101

Document Type: Site Documents **Size :**
Document Date: 8/7/2017 **Submitted By:** VALERIE J. JAHN-BULL (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6328939

Document Type: Site Documents **Size :** 4,117 KB
Document Date: 7/19/2017* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: TSO 97610-6345 170721 STRATUS WDR APR-JUN 2017
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2686483979/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 7,961 KB
Document Date: 7/13/2017* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: TSO 97610-6345 STRATUS SECOND QUARTER 2017 GROUNDWATER MONTIROING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6181421101/T0606500497.PDF

Document Type: Site Documents **Size :**
Document Date: 7/1/2017 **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: REFERRAL TO REGIONAL BOARD **Submitted:**
Title: RCDEH TRANSFERRED REGULATORY OVERSIGHT FOR THIS CLEANUP TO THE RWQCB. ALL FUTURE OVERSIGHT WILL BE CONDUCTED BY RWQCB.
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6325276

Document Type: Site Documents **Size :**
Document Date: 7/1/2017 **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: FILE REVIEW **Submitted:**
Title: RCDEH SITE SUMMARY AS OF TRANSFER TO RWQCB ON 7/1/2017
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6185018

Document Type: Site Documents **Size :** 1,042 KB
Document Date: 6/2/2017* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER WORKPLAN **Submitted:**
Title: REQUEST FOR AUTHORIZATION TO SUSPEND SOIL GAS SAMPLING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1628883063/T0606500497.PDF

Document Type: Site Documents **Size :** 1,020 KB
Document Date: 5/23/2017* **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: WELL DESTRUCTION WORKPLAN **Submitted:**
Title: REQUEST FOR AUTHORIZATION TO ABANDON GROUNDWATER MONITORING WELL MW-13
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2498964309/T0606500497.PDF

Document Type: Site Documents **Size :**
Document Date: 5/16/2017 **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: FILE REVIEW **Submitted:**
Title: RCDEH UPLOADED SITE FILE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6320117

Document Type: Site Documents **Size :** 3,566 KB
Document Date: 4/27/2017 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: TSO 6345 170501 STRATUS WDR JAN-MAR 2017
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9878272771/T0606500497.PDF

Document Type: Site Documents **Size :** 106 KB
Document Date: 4/25/2017 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**

Title: ERRATA - ANNUAL CLEANUP EVALUATION REPORT AND QUARTERLY SAMPLING RESULTS - FIRST QUARTER 2017
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2029985427/T0606500497.PDF

Document Type: Monitoring Reports ***Size :*** 9,138 KB
Document Date: 4/15/2017 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - ANNUALLY ***Submitted:***
Title: TSO 97610-6345 170415 STRATUS ANNUAL CLEANUP EVALUATION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7552675247/T0606500497.PDF

Document Type: Site Documents ***Size :*** 2,962 KB
Document Date: 2/1/2017* ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT ***Submitted:***
Title: TSO 6345 170201 STRATUS WDR OCT-DEC 2016
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2156530976/T0606500497.PDF

Document Type: Monitoring Reports ***Size :*** 9,018 KB
Document Date: 1/15/2017 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: TSO 97610-6345 170115 STRATUS GROUNDWATER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3868650972/T0606500497.PDF

Document Type: Site Documents ***Size :*** 589 KB
Document Date: 11/28/2016 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: CORRESPONDENCE ***Submitted:***
Title: NEW STRATUS PROJECT MANAGER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8044313430/T0606500497.PDF

Document Type: Site Documents ***Size :*** 587 KB
Document Date: 11/28/2016* ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: CORRESPONDENCE ***Submitted:***
Title: NEW STRATUS PROJECT MANAGER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9601076126/T0606500497.PDF

Document Type: Site Documents ***Size :*** 3,461 KB
Document Date: 10/31/2016* ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS ***Submitted:***
Title: OXYGEN SPARGING MONITORING REPORT, JULY - SEPTEMBER 2016
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6891196906/T0606500497.PDF

Document Type: Monitoring Reports ***Size :*** 8,886 KB
Document Date: 10/14/2016 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - SEMI-ANNUALLY ***Submitted:***
Title: TSO FORMER ARCO FACILITY 6345 161015 STRATUS GW MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9709154129/T0606500497.PDF

Document Type: Monitoring Reports ***Size :*** 3,800 KB
Document Date: 8/1/2016* ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - OTHER ***Submitted:***
Title: FORMER ARCO STATION NO. 6345 OXYGEN SPARGING MONITORING REPORT, APRIL - JUNE 2016
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3847364962/T0606500497.PDF

Document Type: Monitoring Reports ***Size :*** 11,637 KB
Document Date: 7/15/2016 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: TSO 97610-6345 160715 SECOND QUARTER MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3542494356/T0606500497.PDF

Document Type: Site Documents ***Size :*** 2,867 KB
Document Date: 4/26/2016 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)

Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, JANUARY - MARCH 2016
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9069578707/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 12,409 KB
Document Date: 4/14/2016 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: FORMER ARCO 6345 160415 STRATUS FIRST QUARTER QMR 2016
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1212394475/T0606500497.PDF

Document Type: Site Documents **Size :** 2,194 KB
Document Date: 2/1/2016 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, OCTOBER - DECEMBER 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5230704605/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 7,238 KB
Document Date: 1/15/2016 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: TSO 6345 160115 STRATUS Q415 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8524256110/T0606500497.PDF

Document Type: Site Documents **Size :** 5,114 KB
Document Date: 11/2/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, JULY - SEPTEMBER 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9659608364/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 12,525 KB
Document Date: 10/15/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, 3RD QUARTER 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4159746289/T0606500497.PDF

Document Type: Site Documents **Size :** 4,001 KB
Document Date: 7/31/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, APRIL - JUNE, 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8995856583/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 5,237 KB
Document Date: 7/15/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, 2ND QUARTER 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3645639777/T0606500497.PDF

Document Type: Site Documents **Size :** 7,025 KB
Document Date: 7/1/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: REMEDIAL PROGRESS REPORT **Submitted:**
Title: REMEDIATION SYSTEM STARTUP, REMEDIAL ACTION PLAN IMPLEMENTATION AND SOIL GAS MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6701820075/T0606500497.PDF

Document Type: Site Documents **Size :** 186 KB
Document Date: 5/29/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: EXTENSION REQUEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8885581314/T0606500497.PDF

Document Type: Site Documents **Size :** 1,663 KB
Document Date: 4/30/2015 **Submitted By:** STRATUS ENVIRONMENTAL

(CONTRACTOR)

Type: NPDES / WDR REPORTS **Submitted:**
Title: OXYGEN SPARGING MONITORING REPORT, JANUARY - MARCH, 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4101172745/T0606500497.PDF

Document Type: Site Documents **Size :** 185 KB
Document Date: 4/30/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: EXTENSION REQUEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2788706183/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 5,678 KB
Document Date: 4/15/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - ANNUALLY **Submitted:**
Title: ANNUAL CLEANUP EVALUATION REPORT AND QUARTERLY SAMPLING RESULTS - FIRST QUARTER 2015
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5454919040/T0606500497.PDF

Document Type: Site Documents **Size :**
Document Date: 4/10/2015 **Submitted By:** ANDREA BRIONES (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6241535

Document Type: Site Documents **Size :**
Document Date: 3/30/2015 **Submitted By:** ANDREA BRIONES (REGULATOR)
Type: OTHER WORKPLAN **Submitted:**
Title: WORKPLAN FOR SOIL GAS MONITORING - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&document_id=5836860

Document Type: Site Documents **Size :** 4,844 KB
Document Date: 3/24/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER WORKPLAN **Submitted:**
Title: ARCO #6345 WORKPLAN FOR SOIL GAS MONITORING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4241781651/T0606500497.PDF

Document Type: Site Documents **Size :**
Document Date: 3/5/2015 **Submitted By:** PAMELA YBARRA (REGULATOR)
Type: WASTE DISCHARGE REQUIREMENTS **Submitted:**
Title: RB ISSUED IN-SITU WDR R8-2013-0029-031
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6238044

Document Type: Site Documents **Size :** 2,094 KB
Document Date: 2/27/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: CLEANUP IMPLEMENTATION PLAN LETTER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1693046331/T0606500497.PDF

Document Type: Site Documents **Size :**
Document Date: 1/22/2015 **Submitted By:** ANDREA BRIONES (REGULATOR)
Type: STAFF LETTER **Submitted:**
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6234324

Document Type: Site Documents **Size :** 4,707 KB
Document Date: 1/15/2015 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: QUARTERLY STATUS REPORT, 4TH QUARTER 2014
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7696448624/T0606500497.PDF

Document Type: Site Documents **Size :** 3,907 KB
Document Date: 10/28/2014 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: CAP/RAP - OTHER REPORT **Submitted:**
Title: REMEDIAL ACTION PLAN

Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5808678805/T0606500497.PDF

Document Type: Monitoring Reports ***Size :*** 4,130 KB
Document Date: 10/15/2014 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY ***Submitted:***
Title: QUARTERLY STATUS REPORT, 3RD QUARTER 2014
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3742469131/T0606500497.PDF

Document Type: Site Documents ***Size :*** 3,946 KB
Document Date: 7/15/2014 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS ***Submitted:***
Title: QUARTERLY REPORT, 2ND QUARTER 2014
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8412575900/T0606500497.PDF

Document Type: Site Documents ***Size :***
Document Date: 6/24/2014 ***Submitted By:*** ANDREA BRIONES (REGULATOR)
Type: PILOT STUDY/ TREATABILITY REPORT ***Submitted:***
Title: UNKNOWN - REGULATOR RESPONSE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&document_id=5798804

Document Type: Site Documents ***Size :*** 4,849 KB
Document Date: 6/18/2014 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: PILOT STUDY/ TREATABILITY REPORT ***Submitted:***
Title: AIR SPARGE TEST REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9418489575/T0606500497.PDF

Document Type: Site Documents ***Size :*** 8,613 KB
Document Date: 6/10/2014 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: WELL INSTALLATION REPORT ***Submitted:***
Title: WELL INSTALLATION REPORT (MW-15, OS-5, OS-6)
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7137590527/T0606500497.PDF

Document Type: Site Documents ***Size :*** 7,607 KB
Document Date: 5/15/2014 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT ***Submitted:***
Title: ANNUAL CLEANUP EVALUATION REPORT (2014)
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5484560132/T0606500497.PDF

Document Type: Site Documents ***Size :*** 67 KB
Document Date: 4/10/2014 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: CORRESPONDENCE ***Submitted:***
Title: EXTENSION REQUEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6128894865/T0606500497.PDF

Document Type: Site Documents ***Size :*** 636 KB
Document Date: 3/25/2014 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT ***Submitted:***
Title: LIST OF LANDOWNERS FORM
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6233756363/T0606500497.PDF

Document Type: Site Documents ***Size :***
Document Date: 2/25/2014 ***Submitted By:*** ANDREA BRIONES (REGULATOR)
Type: STAFF LETTER ***Submitted:***
Title: UNKNOWN
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6193767

Document Type: Site Documents ***Size :*** 3,613 KB
Document Date: 2/10/2014 ***Submitted By:*** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: CAP/RAP - OTHER REPORT ***Submitted:***
Title: WORKPLAN FOR AIR SPARGE PILOT TESTING
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8885262668/T0606500497.PDF

Document Type: Site Documents **Size :** 3,754 KB
Document Date: 1/21/2014 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: WELL INSTALLATION WORKPLAN **Submitted:**
Title: WORKPLAN TO ADVANCE AIR SPARGE WELLS AND A GROUNDWATER MONITORING WELL
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7544053554/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 4,321 KB
Document Date: 1/21/2014 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY REPORT, 4TH QUARTER 2013
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8048219799/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 4,420 KB
Document Date: 10/14/2013 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY REPORT,3RD QUARTER 2013
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1473473727/T0606500497.PDF

Document Type: Site Documents **Size :** 5,146 KB
Document Date: 7/19/2013 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: ANNUAL CLEANUP EVALUTATION REPORT AND QUARTERLY SAMPLING RESULTS-SECOND QUARTER 2013
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9184037685/T0606500497.PDF

Document Type: Site Documents **Size :**
Document Date: 5/13/2013 **Submitted By:** ANDREA BRIONES (REGULATOR)
Type: CORRESPONDENCE **Submitted:**
Title: NOTIFICATION OF TRANSFER OF OWNERSHIP
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&document_id=5772928

Document Type: Site Documents **Size :** 9,712 KB
Document Date: 4/15/2013 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: OTHER REPORT / DOCUMENT **Submitted:**
Title: ANNUAL CLEANUP EVALUTATION REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5165543556/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 3,467 KB
Document Date: 1/18/2013 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: QUARTERLY MONITORING REPORT, FOURTH QUARTER 2012
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2636066496/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 6,379 KB
Document Date: 10/17/2012 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 3Q12 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8088348329/T0606500497.PDF

Document Type: Site Documents **Size :** 4,455 KB
Document Date: 7/13/2012 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: STATUS / PROGRESS REPORTS **Submitted:**
Title: 2Q12 STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4375731706/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 9,870 KB
Document Date: 4/15/2012 **Submitted By:** STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: 1Q12 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1875518083/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 1/13/2012
Size : 4,922 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 4Q11 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9979886651/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 10/12/2011
Size : 4,116 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 3Q11 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3289733171/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 7/12/2011
Size : 2,184 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 2Q11 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9567158520/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 4/15/2011
Size : 6,071 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 1Q11 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3963913917/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 1/14/2011
Size : 2,334 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 4Q10 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8215207695/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 10/13/2010
Size : 2,825 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 3Q10 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6859498023/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 7/14/2010
Size : 2,012 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 2Q10 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6078240811/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 4/14/2010
Size : 7,839 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 1Q10 QTLY STATUS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9205949187/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 1/13/2010
Size : 7,006 KB
Submitted By: STRATUS ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: 4Q09 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2609117805/T0606500497.PDF

Document Type: Monitoring Reports
Document Date: 10/15/2009
Size : 2,953 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY
Submitted:
Title: GROUNDWATER MONITORING REPORT, 2009-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3701544523/T0606500497.PDF

Document Type: Site Documents
Document Date: 8/13/2009
Type: STAFF LETTER
Title: GW MONITORING FREQUENCY LETTER
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500497&enforcement_id=6027498
Size :
Submitted By: YVONNE REYES (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 8/6/2009
Type: FEASIBILITY STUDY REPORT
Title: OS TEST REPORT ADDENDUM
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6678865730/T0606500497.PDF
Size : 1,956 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Monitoring Reports
Document Date: 7/15/2009
Type: MONITORING REPORT - QUARTERLY
Title: GROUNDWATER MONITORING REPORT, 2009-Q2
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8578701198/T0606500497.PDF
Size : 3,107 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Site Documents
Document Date: 6/22/2009
Type: CORRESPONDENCE
Title: ARC REDUCED GW REQUEST LETTER
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3582564413/T0606500497.PDF
Size : 56 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Monitoring Reports
Document Date: 4/15/2009
Type: MONITORING REPORT - QUARTERLY
Title: GROUNDWATER MONITORING REPORT, 2009-Q1
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7309105992/T0606500497.PDF
Size : 2,750 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Site Documents
Document Date: 2/13/2009
Type: CAP/RAP - FEASIBILITY STUDY REPORT
Title: OS TEST REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7689391195/T0606500497.PDF
Size : 8,865 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Monitoring Reports
Document Date: 1/15/2009
Type: MONITORING REPORT - QUARTERLY
Title: GROUNDWATER MONITORING REPORT, 2008-Q4
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4275631129/T0606500497.PDF
Size : 3,043 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Monitoring Reports
Document Date: 10/15/2008
Type: MONITORING REPORT - QUARTERLY
Title: GROUNDWATER MONITORING REPORT, 2008-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3982483386/T0606500497.PDF
Size : 3,010 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Monitoring Reports
Document Date: 7/15/2008
Type: MONITORING REPORT - QUARTERLY
Title: GROUNDWATER MONITORING REPORT, 2008-Q2
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5017338633/T0606500497.PDF
Size : 5,769 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Site Documents
Document Date: 6/9/2008
Type: CORRESPONDENCE - DIRECTIVE RELATED
Title: OS TEST PROGRESS REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5822924554/T0606500497.PDF
Size : 135 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Monitoring Reports
Document Date: 4/15/2008
Type: MONITORING REPORT - QUARTERLY
Title: GROUNDWATER MONITORING REPORT, 2008-Q1
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3131438314/T0606500497.PDF
Size : 3,370 KB
Submitted By: STANTEC-BP (CONTRACTOR)
Submitted:

Document Type: Site Documents
Size : 59 KB

Document Date: 2/27/2008 **Submitted By:** YVONNE REYES (REGULATOR)
Type: **Submitted:**
Title:
Title Link: https://geotracker.waterboards.ca.gov/site_documents/1255222916/Arco%20%236345%2E022708%2EYR%2Epdf

Document Type: Monitoring Reports **Size :** 2,983 KB
Document Date: 1/15/2008 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: GROUNDWATER MONITORING REPORT, 2007-Q4
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5856007456/T0606500497.PDF

Document Type: Site Documents **Size :** 64 KB
Document Date: 12/3/2007 **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: **Submitted:**
Title:
Title Link: https://geotracker.waterboards.ca.gov/site_documents/2453007340/Arco%206345%20120307%20letter%2Epdf

Document Type: Monitoring Reports **Size :** 2,792 KB
Document Date: 10/15/2007 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: GROUNDWATER MONITORING REPORT, 2007-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/8204211175/T0606500497.PDF

Document Type: Site Documents **Size :** 1,203 KB
Document Date: 8/28/2007 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: REPORTS - REMEDIAL ACTION RPT. **Submitted:**
Title: IRAP FEASIBILITY STUDY
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6553968667/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 2,427 KB
Document Date: 7/30/2007 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: GROUNDWATER MONITORING REPORT, 2007-Q2
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7078373789/T0606500497.PDF

Document Type: Site Documents **Size :** 51 KB
Document Date: 7/18/2007 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: CORRESPONDENCE - OTHER **Submitted:**
Title: 2007-Q2 EXTENSION REQUEST
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2761446893/T0606500497.PDF

Document Type: Site Documents **Size :** 57 KB
Document Date: 7/13/2007 **Submitted By:** SHARON BOLTINGHOUSE (REGULATOR)
Type: **Submitted:**
Title:
Title Link: https://geotracker.waterboards.ca.gov/site_documents/4110961735/Arco%206345%20071307%20letter%2Epdf

Document Type: Site Documents **Size :** 96 KB
Document Date: 6/28/2007 **Submitted By:** YVONNE REYES (REGULATOR)
Type: **Submitted:**
Title:
Title Link: https://geotracker.waterboards.ca.gov/site_documents/2158985733/Arco%20%236345%20URR%2Epdf

Document Type: Site Documents **Size :** 51 KB
Document Date: 6/28/2007 **Submitted By:** YVONNE REYES (REGULATOR)
Type: **Submitted:**
Title:
Title Link: https://geotracker.waterboards.ca.gov/site_documents/1505966007/Arco%20%236345%20Letter%2Epdf

Document Type: Site Documents **Size :** 8,006 KB
Document Date: 5/17/2007 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: REPORTS - REMEDIAL ACTION RPT. **Submitted:**
Title: AQUIFER TEST REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9994419932/T0606500497.PDF

Document Type: Monitoring Reports **Size :** 6,761 KB
Document Date: 4/18/2007 **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY **Submitted:**
Title: GROUNDWATER MONITORING REPORT, 2007-Q1

Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7505480706/T0606500497.PDF

Document Type: Monitoring Reports | **Size :** 8,092 KB
Document Date: 1/11/2007 | **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: GROUNDWATER MONITORING REPORT, 2006-Q4
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/6994479119/T0606500497.PDF

Document Type: Monitoring Reports | **Size :** 7,176 KB
Document Date: 10/17/2006 | **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: GROUNDWATER MONITORING REPORT, 2006-Q3
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7966494500/T0606500497.PDF

Document Type: Monitoring Reports | **Size :** 6,073 KB
Document Date: 7/18/2006 | **Submitted By:** STANTEC-BP (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: GROUNDWATER MONITORING REPORT, 2006-Q2
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5353986442/T0606500497.PDF

Document Type: Monitoring Reports | **Size :** 3,144 KB
Document Date: 4/14/2006 | **Submitted By:** DELTA ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 1Q06 MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4715268790/T0606500497.PDF

Document Type: Site Documents | **Size :** 7,574 KB
Document Date: 1/30/2006 | **Submitted By:** DELTA ENVIRONMENTAL (CONTRACTOR)
Type: REPORTS - INVESTIGATION RPT. | **Submitted:**
Title: OFF-SITE WELL INSTALLATION REPORT, 1/30/06
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1367734611/T0606500497.PDF

Document Type: Monitoring Reports | **Size :** 3,556 KB
Document Date: 1/15/2006 | **Submitted By:** DELTA ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 4TH QUARTER 2005 MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/3484348893/T0606500497.PDF

Document Type: Site Documents | **Size :** 850 KB
Document Date: 10/21/2005 | **Submitted By:** DELTA ENVIRONMENTAL (CONTRACTOR)
Type: WORKPLANS - RISK ASSESSMENT RELATED WP | **Submitted:**
Title: WORK PLAN FOR ADDITIONAL FEASIBILITY TESTING, 10/14/05
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5492689371/T0606500497.PDF

Document Type: Monitoring Reports | **Size :** 2,886 KB
Document Date: 10/14/2005 | **Submitted By:** DELTA ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: 3RD QUARTER 2005 MONITORING REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/9253034293/T0606500497.PDF

Document Type: Monitoring Reports | **Size :** 2,823 KB
Document Date: 7/13/2005 | **Submitted By:** DELTA ENVIRONMENTAL (CONTRACTOR)
Type: MONITORING REPORT - QUARTERLY | **Submitted:**
Title: SECOND QUARTER 2005 QMR
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/1552991569/T0606500497.PDF

Document Type: Site Documents | **Size :** 35 KB
Document Date: 6/3/2005 | **Submitted By:** DELTA ENVIRONMENTAL (CONTRACTOR)
Type: CORRESPONDENCE - DIRECTIVE RELATED | **Submitted:**
Title: RESPONSE TO RCDEH LETTER DATED 5/27/05
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/5388593375/T0606500497.PDF

Document Type: Site Documents | **Size :** 2,130 KB
Document Date: 5/2/2005 | **Submitted By:** DELTA ENVIRONMENTAL (CONTRACTOR)
Type: REPORTS - OTHER | **Submitted:**
Title: FEASIBILITY STUDY REPORT
Title Link: https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4888303458/T0606500497.PDF

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Document Type:	Monitoring Reports	**Size :**	2,841 KB
Document Date:	4/15/2005	**Submitted By:**	DELTA ENVIRONMENTAL (CONTRACTOR)
Type:	MONITORING REPORT - QUARTERLY	**Submitted:**	
Title:	FIRST QUARTER 2005 QMR		
Title Link:	https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/7808744132/T0606500497.PDF		

Document Type:	Site Documents	**Size :**	805 KB
Document Date:	3/15/2005	**Submitted By:**	DELTA ENVIRONMENTAL (CONTRACTOR)
Type:	WORKPLANS - INVESTIGATION WP	**Submitted:**	
Title:	WORK PLAN FOR ADDITIONAL SITE ASSESSMENT		
Title Link:	https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/4396056950/T0606500497.PDF		

Document Type:	Site Documents	**Size :**	2,655 KB
Document Date:	2/28/2005	**Submitted By:**	DELTA ENVIRONMENTAL (CONTRACTOR)
Type:	REPORTS - OTHER	**Submitted:**	
Title:	4Q04 QMR		
Title Link:	https://geotracker.waterboards.ca.gov/esi/uploads/geo_report/2680600821/T0606500497.pdf		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
26	3 of 3	WNW	0.45 / 2,389.60	1,525.43 / -27	TESORO 42685 2624 E ALESSANDRO BLVD RIVERSIDE CA 92508	RCRA TSD

EPA Handler ID:	CAL000445518
Gen Status Universe:	No Report
Contact Name:	BRENDA RAMIREZ
Contact Address:	19100 RIDGEWOOD PKWY , , SAN ANTONIO , TX, 78259 , US
Contact Phone No and Ext:	210-626-5153
Contact Email:	
Contact Country:	US
Land Type:	
County Name:	RIVERSIDE
EPA Region:	09
Receive Date:	20210614
Location Latitude:	33.916899
Location Longitude:	-117.285692

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Smelting, Melting and Refining:	No
Underground Injection Control:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20190423
Handler Name:	TESORO 42685

Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Implementer

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20210614
Handler Name: TESORO 42685
Federal Waste Generator Code: N
Generator Code Description: Not a Generator, Verified
Source Type: Deactivation

Owner/Operator Details

Owner/Operator Ind: Current Operator
Type: Other
Name: BRENDA RAMIREZ
Date Became Current:
Date Ended Current:
Phone: 562-495-6814
Source Type: Implementer
Street No:
Street 1: 19100 RIDGEWOOD PKWY TX1-022
Street 2:
City: SAN ANTONIO
State: TX
Country:
Zip Code: 78259

Owner/Operator Ind: Current Operator
Type: Other
Name: TESORO REFINING & MARKETING COMPANY
Date Became Current:
Date Ended Current:
Phone: 210-626-6153
Source Type: Deactivation
Street No:
Street 1: 19100 RIDGEWOOD PKWY
Street 2:
City: SAN ANTONIO
State: TX
Country: US
Zip Code: 78259

Owner/Operator Ind: Current Owner
Type: Other
Name: TESORO REFINING & MARKETING CO LLC
Date Became Current:
Date Ended Current:
Phone: 562-495-6814
Source Type: Implementer
Street No:
Street 1: 19100 RIDGEWOOD PKWY TX1-022
Street 2:
City: SAN ANTONIO
State: TX
Country:
Zip Code: 78259

Historical Handler Details

Receive Dt: 20190423
Generator Code Description: Not a Generator, Verified
Handler Name: TESORO 42685

27	1 of 1	E	0.46 / 2,422.27	1,559.53 / 7	STAY MOVING AUTOMOTIVE 14300 ELWORTH ST STE 113 MORENO VALLEY CA 92553	RCRA TSD

EPA Handler ID: CAL000446311
Gen Status Universe: No Report
Contact Name: LENIN MARTINEZ
Contact Address: 14300 ELWORTH ST STE 113 , , MORENO VALLEY , CA, 92553 ,
Contact Phone No and Ext: 909-565-0994
Contact Email: LEN45@STAYMOVINGAUTO.COM
Contact Country:
Land Type:
County Name: RIVERSIDE
EPA Region: 09
Receive Date: 20190528
Location Latitude: 33.914066
Location Longitude: -117.269993

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Violation/Evaluation Summary

Note: NO RECORDS: As of Nov 2021, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Smelting, Melting and Refining:	No
Underground Injection Control:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	1
Receive Date:	20190528
Handler Name:	STAY MOVING AUTOMOTIVE
Federal Waste Generator Code:	N
Generator Code Description:	Not a Generator, Verified
Source Type:	Implementer

Owner/Operator Details

Owner/Operator Ind:	Current Owner	***Street No:***	
Type:	Other	***Street 1:***	14300 ELWORTH ST STE 113
Name:	STAY MOVING AUTOMOTIVE LLC	***Street 2:***	
Date Became Current:		***City:***	MORENO VALLEY
Date Ended Current:		***State:***	CA
Phone:	909-565-0994	***Country:***	
Source Type:	Implementer	***Zip Code:***	92553

Owner/Operator Ind:	Current Operator	***Street No:***	
Type:	Other	***Street 1:***	14300 ELWORTH ST STE 113
Name:	LENIN MARTINEZ	***Street 2:***	
Date Became Current:		***City:***	MORENO VALLEY
Date Ended Current:		***State:***	CA
Phone:	909-565-0994	***Country:***	
Source Type:	Implementer	***Zip Code:***	92553

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
28	*1 of 2*	*ESE*	*0.46 / 2,433.21*	*1,551.52 / -1*	***Chevron #1480 22520 Cactus Ave Moreno Valley CA***	***LOP RIVERSIDE***

Site ID:	971155	***Closed Code:***	Y
Status Code:	9	***Closed Desc:***	CLOSED SITE
Status Desc:	CLOSED/ACTION COMPLETED	***Employee:***	Boltinghous-LOP
Case Type Code:	S		
Case Type Desc:	SOIL ONLY IS IMPACTED		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
28	*2 of 2*	*ESE*	*0.46 / 2,433.21*	*1,551.52 / -1*	***CHEVRON #9-1480 22520 CACTUS AVE***	***LUST***

MORENO VALLEY CA 92553

Global ID:	T0606500508	***County:***	RIVERSIDE
Status:	COMPLETED - CASE CLOSED	***Latitude:***	33.9107059304108
Status Date:	8/21/1998	***Longitude:***	-117.269657428207
Case Type:	LUST CLEANUP SITE		

Date Source: LUST Cleanup Sites & Military UST Site from GeoTracker Project Search Results Export; LUST Cleanup Sites & Military UST Site from GeoTracker Cleanup Sites Data Download

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Facilities Detail

RB Case No:	083303096T	***Potential COC:***	Gasoline
Local Case No:	971155	***How Discovered:***	Other Means
Begin Date:	11/6/1997	***Stop Method:***	Other Means
Lead Agency:	RIVERSIDE COUNTY LOP	***Stop Description:***	Piping and dispenser replacement
Local Agency:	RIVERSIDE COUNTY LOP	***Case Worker:***	RIV
CUF Case:	NO	***File Location:***	Local Agency Warehouse

Potential Media of Concern: Soil
How Discovered Description: Replacing piping and dispensers
Calwater Watershed Name: San Jacinto Valley - Perris - Perris Valley (802.11)
DWR GW Subbasin Name: San Jacinto (8-005)
Disadvantaged Community:
Calenviroscreen Score: 91-95%
Site History:

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Activity

Action Type: ENFORCEMENT
Date : 12/18/2008
Action: Closure/No Further Action Letter - #Site Closure

Action Type: ENFORCEMENT
Date : 12/17/2008
Action: File review - #RCDEH Upload Site File 8/21/2015

Action Type: Other
Date : 11/18/1997
Action: Leak Reported

Action Type: Other
Date : 11/17/1997
Action: Leak Discovery

Action Type: Other
Date : 11/6/1997
Action: Leak Stopped

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Regulatory Contacts

Contact Type:	Local Agency Caseworker	***Address:***	3880 LEMON ST SUITE 200
Contact Name:	Riverside County LOP	***Email:***	
City:	RIVERSIDE	***Phone No:***	9519558980

Organization Name: RIVERSIDE COUNTY LOP

Contact Type:	Regional Board Caseworker	***Address:***	3737 Main Street, Suite 500
Contact Name:	MIGUEL OVIEDO	***Email:***	miguel.oviedo@waterboards.ca.gov
City:	RIVERSIDE	***Phone No:***	9517823238

Organization Name: SANTA ANA RWQCB (REGION 8)

LUST Cleanup Sites from GeoTracker Cleanup Sites Data Download - Status History

Status: Completed - Case Closed
Status Date: 8/21/1998

Status: Open - Site Assessment
Status Date: 11/17/1997

Status: Open - Case Begin Date
Status Date: 11/6/1997

LUST Sites from GeoTracker Search - Regulatory Profile

Site Facility Name: CHEVRON #9-1480
Site Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Project Status:
WDR Place Type:
WDR File:
WDR Order:
CUF Priority Assig:
CUF Amount Paid:
Potential COC: GASOLINE
Facility Type:
Composting Method:
Address: 22520 CACTUS AVE
City: MORENO VALLEY
Zip: 92553
County: RIVERSIDE
CUF Claim:
File Location: LOCAL AGENCY WAREHOUSE
Designated Beneficial Use: MUN, AGR, IND, PROC
Project Oversight Agencies:
Report Link: https://geotracker.waterboards.ca.gov/profile_report?global_id=T0606500508
Cleanup Status Detail: COMPLETED - CASE CLOSED AS OF 8/21/1998
Cleanup History Link: https://geotracker.waterboards.ca.gov/profile_report_include?global_id=T0606500508&tabname=regulatoryhistory
Potential Media of Concern: SOIL
User Defined Beneficial Use:
DWR GW Sub Basin: San Jacinto (8-005)
Calwater Watershed Name: San Jacinto Valley - Perris - Perris Valley (802.11)
Post Closure Site Management: NOTIFY PRIOR TO CHANGE IN LAND USE
Future Land Use:
Cleanup Oversight Agencies: RIVERSIDE COUNTY LOP (LEAD) - CASE #: 971155
CASEWORKER: Riverside County LOP
SANTA ANA RWQCB (REGION 8) - CASE #: 083303096T
CASEWORKER: MIGUEL OVIEDO
Gndwater Monitoring Freque:
Designated Beneficial Use Desc: Municipal and Domestic Supply, Agricultural Supply, Industrial Service Supply, Industrial Process Supply
Site History:

No site history available

LUST Sites from GeoTracker Search - Cleanup Status History

Status: Completed - Case Closed
Date : 8/21/1998

Status: Open - Site Assessment
Date : 11/17/1997

Status: Open - Case Begin Date
Date : 11/6/1997

LUST Sites from GeoTracker Search - Regulatory Activities (as of May 29, 2021)

Action Type: Other Regulatory Actions
Action Date: 12/18/2008
Received Issue Date: 12/18/2008
Action: Closure/No Further Action Letter - #Site Closure
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500508&enforcement_id=5997047&temptable=ENFORCEMENT
Title Description Comments:

RivCo Site Closure

Action Type: Other Regulatory Actions
Action Date: 12/17/2008
Received Issue Date: 12/17/2008
Action: File review - #RCDEH Upload Site File 8/21/2015
Doc Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500508&enforcement_id=6048860&temptable=ENFORCEMENT
Title Description Comments:

RCDEH Upload Site File 8/21/2015

Action Type: Leak Action
Action Date: 11/18/1997
Received Issue Date:
Action: Leak Reported
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 11/17/1997
Received Issue Date:
Action: Leak Discovery
Doc Link:
Title Description Comments:

Action Type: Leak Action
Action Date: 11/6/1997
Received Issue Date:
Action: Leak Stopped
Doc Link:
Title Description Comments:

LUST Sites from GeoTracker Search - Documents (as of May 29, 2021)

Document Type: Site Documents
Document Date: 12/18/2008
Type: CLOSURE/NO FURTHER ACTION LETTER
Title: RIVCO SITE CLOSURE
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500508&enforcement_id=5997047
Size :
Submitted By: RIVERSIDE COUNTY LOP (REGULATOR)
Submitted:

Document Type: Site Documents
Document Date: 12/17/2008
Type: FILE REVIEW
Title: RCDEH UPLOAD SITE FILE 8/21/2015
Title Link: https://geotracker.waterboards.ca.gov/view_documents?global_id=T0606500508&enforcement_id=6048860
Size :
Submitted By: LINDA SHURLOW (REGULATOR)
Submitted:

29	1 of 1	W	0.88 / 4,621.74	1,553.64 / 1	UNNAMED PIT RIVERSIDE COUNTY RIVERSIDE CA 92508	MRDS

Dep ID: 10212912
Dev Status: PAST PRODUCER
Code List: STN_C
Url: http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10212912
I1: 17
Latitude: 33.914673
Longitude: -117.293884

Commodity

I1: 47
Code: STN_C
Commodity: Stone, Crushed/Broken
Commodity Type: Non-metallic
Commodity Group: Stone, Crushed
Importance: Primary
Line: 1
Inserted By: MAS migration
Insert Date: 29-OCT-02
Updated By: USGS
Update Date: 29-OCT-02

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Names

I1:	13	***Inserted By:***	MAS migration
Status:	Current	***Insert Date:***	29-OCT-02
Site Name:	Unnamed Pit	***Updated By:***	USGS
Line:	2	***Update Date:***	29-OCT-02

Names

I1:	13	***Inserted By:***	MAS migration
Status:	Previous	***Insert Date:***	29-OCT-02
Site Name:	Pit	***Updated By:***	USGS
Line:	1	***Update Date:***	29-OCT-02

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
30	*1 of 2*	*WNW*	*0.90 / 4,776.69*	*1,548.65 / -4*	***UNNAMED PIT RIVERSIDE COUNTY RIVERSIDE CA 92506***	***MRDS***

Dep ID:	10139867	***I1:***	18
Dev Status:	PAST PRODUCER	***Latitude:***	33.918274
Code List:	STN_C	***Longitude:***	-117.293884
Url:	http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10139867		

Commodity

I1:	24	***Line:***	1
Code:	STN_C	***Inserted By:***	MAS migration
Commodity:	Stone, Crushed/Broken	***Insert Date:***	29-OCT-2002 09:00:24
Commodity Type:	Non-metallic	***Updated By:***	USGS
Commodity Group:	Stone, Crushed	***Update Date:***	29-OCT-2002 09:01:29
Importance:	Primary		

Names

I1:	14	***Inserted By:***	MAS migration
Status:	Current	***Insert Date:***	29-OCT-02
Site Name:	Unnamed Pit	***Updated By:***	USGS
Line:	1	***Update Date:***	29-OCT-02

Names

I1:	14	***Inserted By:***	MAS migration
Status:	Previous	***Insert Date:***	29-OCT-02
Site Name:	Pit	***Updated By:***	USGS
Line:	2	***Update Date:***	29-OCT-02

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
30	*2 of 2*	*WNW*	*0.90 / 4,776.69*	*1,548.65 / -4*	***PIT RIVERSIDE COUNTY RIVERSIDE CA 92506***	***MRDS***

Dep ID:	10110905	***I1:***	32
Dev Status:	PRODUCER	***Latitude:***	33.918274
Code List:	GRT	***Longitude:***	-117.293884
Url:	http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10110905		

Commodity

I1:	21	***Line:***	1
Code:	GRT	***Inserted By:***	MRDS migration
Commodity:	Granite	***Insert Date:***	29-OCT-2002 09:00:24

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB

Commodity Type:	Non-metallic	**Updated By:**	USGS
Commodity Group:	Stone	**Update Date:**	29-OCT-2002 09:01:17
Importance:	Primary		

Names

I1:	32	**Inserted By:**	MRDS migration
Status:	Current	**Insert Date:**	29-OCT-02
Site Name:	Pit	**Updated By:**	USGS
Line:	1	**Update Date:**	29-OCT-02

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
31	1 of 1	SW	0.99 / 5,249.06	1,614.96 / 62	CAMP HAAN RIVERSIDE CA	FUDS

FUDS Property No:	J09CA0279
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=61045
FUDS INST ID:	CA99799F540000
Status:	
SDS ID:	
NPL Status Code:	Not on the NPL
Eligibility:	Eligible
Site Eligib:	
Current Owner:	
Has Project:	Yes
DOD FUDS Pro:	
Project Required:	Yes
No Further Action:	
Congressional District:	41
EPA Region:	09
County:	RIVERSIDE
Latitude:	33.87055556
Longitude:	-117.27194444
Fiscal year:	2019
USACE Division:	SPD
USACE District:	Los Angeles District (SPL)
Shape Area:	.00104217
Shape Len:	.32472899
Centroid Latitude:	
Centroid Longitude:	
Media ID:	
Metadata ID:	
Feature Desc:	
Property History:	The War Department developed Camp Haan on 7,808.59 acres of land that were acquired from August 1940 to December 1943. Originally established as an anti-artillery training center, the camp was later used as a replacement camp, a Prisoner of War distribu

Unplottable Summary

Total: 1 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
MINES	ROBERTSON'S READY MIX LTD	***Mine ID:*** 0403821	CA		848256461

Unplottable Report

Site: ***ROBERTSON'S READY MIX LTD***
CA

MINES

Mine ID:	0403821	***SIC:***	144200
Entity Name:	AZUSA	***Secondary SIC 1:***	324100
Status Code:	4	***Secondary SIC 2:***	000000
Mine Status:	Permanently Abandoned	***Secondary SIC 3:***	000000
Status Date:	19970807	***Secondary SIC 4:***	000000
Operation Class:	2 - Non-coal mining	***Secondary SIC 5:***	000000
Company Type:	Other	***Mines Prim SIC CD:***	144200
Assess Ctrl No:	040382105540	***Primary SIC:***	Construction Sand and Gravel
Current Mine Name:	AZUSA	***Primary SIC CD 1:***	1442
Current Mine Type:	Facility	***Primary SIC CD SFX:***	00
Current Mine Status:	Abandoned	***Secondary SIC CD:***	324100
Current Status Dt:	08/07/1997	***Secondary SIC:***	Cement
Current Controller ID:	M11611	***Secondary SIC CD 1:***	3241
Curr Controller Name:	Robertson's Ready Mix Inc; Mitsubishi Corp	***Sec SIC CD Sfx:***	00
Curr Cont Begin Dt:	10/01/1995	***Primary Canvass CD:***	5
Curr Operator ID:	L14361	***Primary Canvass:***	SandAndGravel
Curr Operator Name:	Robertson'S Ready Mix Ltd	***Sec Canvass CD:***	6
Coal Metal Ind:	M	***Secondary Canvass:***	Stone
Mines State:	CA	***Lat Deg:***	00
No of Shops:	0	***Lat Min:***	00
No of Plants:	0	***Lat Sec:***	00
No of Pits:	000	***Long Deg:***	000
Current 103I:		***Long Min:***	00
Current 103I Dt:		***Long Sec:***	00
Portable Operation:	No	***Longitude:***	
Portable FIPS St CD:		***Latitude:***	
Days Per Week:	5	***County Code:***	037
Hours Per Shift:	8	***State Code:***	06
Prod Shifts Per Day:	2	***District:***	M7
Maint Shifts Per Day:		***BOM State CD:***	04
No Employees:	0	***FIPS Cnty CD:***	037
Part48 Training:	Yes	***FIPS Cnty Nm:***	Los Angeles
Avg Mine Height:		***Cong Dist CD:***	24
Mine Gas Ctgry CD:		***Contact Title:***	Human Resource
Methane Liberation:		***Street:***	6830 Van Buren Boulevard
No Producing Pits:		***Po Box:***	
No Non-Prod Pits:		***City:***	RIVERSIDE
No Tailing Ponds:		***State Abbr:***	CA
Pillar Recovery Used:	No	***FIPS State CD:***	06
Highwall Miner Used:	No	***State:***	California
Multiple Pits:	No	***Zip CD:***	92509
Miners Rep Ind:	No	***Country:***	USA
Safety Committee Ind:	No	***Province:***	
Miles from Office:	50	***Postal CD:***	
Directions to Mine:		***Primary SIC CD:***	Construction Sand and Gravel
Office CD:	M7831	***State Abbrev:***	CA

Office Name: San Bernardino CA Field Office
Status Description: The mine has been permanently shut down.
Source File Desc: Master Index File;MINES Data Set

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program: DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List: NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Oct 20, 2021

National Priority List - Proposed: PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Oct 20, 2021

Deleted NPL: DELETED NPL

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.

Government Publication Date: Oct 20, 2021

SEMS List 8R Active Site Inventory: SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Oct 20, 2021

SEMS List 8R Archive Sites: SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Oct 20, 2021

Inventory of Open Dumps, June 1985: ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS: CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands: IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned: CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means 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 this site on the National Priorities List (NPL). This 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 a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens: CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action: RCRA CORRACTS

RCRA Info 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Nov 17, 2021

RCRA non-CORRACTS TSD Facilities: RCRA TSD

RCRA Info 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. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Nov 17, 2021

RCRA Generator List: RCRA LQG

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Nov 17, 2021

RCRA Small Quantity Generators List: RCRA SQG

RCRA Info is the 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Nov 17, 2021

RCRA Very Small Quantity Generators List: RCRA VSQG

RCRA Info is the 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Nov 17, 2021

RCRA Non-Generators: RCRA NON GEN

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Nov 17, 2021

RCRA Sites with Controls: RCRA CONTROLS

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Nov 17, 2021

Federal Engineering Controls-ECs: FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Feb 23, 2021

Federal Institutional Controls- ICs: FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Feb 23, 2021

Land Use Control Information System: LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Emergency Response Notification System: ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System: ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System: ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jul 26, 2021

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database: FED BROWNFIELDS

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 20, 2021

FEMA Underground Storage Tank Listing: FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan: FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 2, 2020

Historical Gas Stations: HIST GAS STATIONS

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries: REFN

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Jul 10, 2020

Petroleum Product and Crude Oil Rail Terminals: BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Apr 28, 2020

LIEN on Property: SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Oct 20, 2021

Superfund Decision Documents: SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Jun 28, 2021

State

State Response Sites: RESPONSE

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: Sep 15, 2021

EnviroStor Database: ENVIROSTOR

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: Sep 15, 2021

Delisted State Response Sites: DELISTED ENVS

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: Sep 15, 2021

Solid Waste Information System (SWIS): SWF/LF

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Nov 2, 2021

Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels: SWRCB SWF

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

Government Publication Date: Sep 20, 2006

EnviroStor Hazardous Waste Facilities: HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: Sep 15, 2021

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report: SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Construction and Demolition Debris Recyclers: C&D DEBRIS RECY

This listing of Construction and Demolition Debris Recyclers is maintained by the California Intergrated Waste Management Board-common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, pipe, rocks, dirt, paper, cardboard, or green waste related to land development.

Government Publication Date: Jun 20, 2018

Recycling Centers: RECYCLING

This list of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Nov 2, 2020

Listing of Certified Processors: PROCESSORS

This list of Certified Processors that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Oct 27, 2020

Listing of Certified Dropoff, Collection, and Community Service Programs: CONTAINER RECY

This list of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Dec 16, 2020

Land Disposal Sites: LDS

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Oct 20, 2021

Leaking Underground Fuel Tank Reports: LUST

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Government Publication Date: Jun 22, 2021

Delisted Leaking Storage Tanks: DELISTED LST

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.

Government Publication Date: Jun 22, 2021

Permitted Underground Storage Tank (UST) in GeoTracker: UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Oct 17, 2021

Proposed Closure of Underground Storage Tank Cases: UST CLOSURE

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period.

Government Publication Date: May 5, 2021

Historical Hazardous Substance Storage Information Database: HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

Statewide Environmental Evaluation and Planning System: UST SWEEPS

The Statewide Environmental Evaluation and Planning System (SWEEPS) is a historical listing of active and inactive underground storage tanks made available by the California State Water Resources Control Board (SWRCB).

Government Publication Date: Oct 1, 1994

Aboveground Storage Tanks: AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

SWRCB Historical Aboveground Storage Tanks: AST SWRCB

A list of aboveground storage tanks made available by the California State Water Resources Control Board (SWRCB). Effective January 1, 2008, the Certified Unified Program Agencies (CUPAs) are vested with the responsibility and authority to implement the Aboveground Petroleum Storage Act (APSA).

Government Publication Date: Dec 1, 2007

Oil and Gas Facility Tanks: TANK OIL GAS

Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR).

Government Publication Date: Sep 13, 2021

Delisted Storage Tanks: DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).

Government Publication Date: Dec 10, 2021

California Environmental Reporting System (CERS) Tanks: CERS TANK

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. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Sep 24, 2021

Delisted California Environmental Reporting System (CERS) Tanks: DELISTED CTNK

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.

Government Publication Date: Sep 24, 2021

Historical Hazardous Substance Storage Container Information - Facility Summary: HIST TANK

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in th 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

Government Publication Date: May 27, 1988

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions: LUR

The Department of Toxic Substances Control (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 land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Sep 15, 2021

CALSITES Database: CALSITES

This historical database was maintained by the Department of Toxic Substance Control (DTSC) for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.

Government Publication Date: May 1, 2004

Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions: HLUR

The Department of Toxic Substances Control (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.

Government Publication Date: Feb 18, 2021

Deed Restrictions and Land Use Restrictions: DEED

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Oct 20, 2021

Voluntary Cleanup Program: VCP

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Sep 15, 2021

GeoTracker Cleanup Program Sites: CLEANUP SITES

A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Jun 22, 2021

Delisted County Records: DELISTED COUNTY

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Dec 10, 2021

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands: INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Apr 8, 2020

Underground Storage Tanks (USTs) on Indian Lands: INDIAN UST

USTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Apr 8, 2020

Delisted Tribal Leaking Storage Tanks: DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Apr 14, 2020

Delisted Tribal Underground Storage Tanks: DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Apr 14, 2020

County

Riverside County - Local Oversight Program List: LOP RIVERSIDE

A list of Leaking Underground Storage Tank (LUST) facilities in Riverside County. This list is made available by Riverside County Department of Environmental Health. Environmental Cleanup Program provides oversight of assessments and cleanups at properties that have been, or may have been, contaminated with hazardous substances from LUSTs or releases associated with other commercial/industrial use.

Government Publication Date: Jul 22, 2021

Riverside County - Underground Storage Tanks List: UST RIVERSIDE

A list of registered Underground Storage Tank (UST) sites in Riverside County. This list is made available by Riverside County Department of Environmental Health. The Hazardous Materials Management Branch (HMMB) regulates and oversees the inspections of constructions, repairs, upgrades, system operation and removal of UST systems.

Government Publication Date: Jul 22, 2021

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index: FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Nov 2, 2020

Toxics Release Inventory (TRI) Program: TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U. S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Releases: PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Aug 24, 2021

PFOA/PFOS Contaminated Sites: PFAS NPL

List of sites where PFOA or PFOS contaminants have been found in drinking water or soil. Made available by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Sep 17, 2021

Perfluorinated Alkyl Substances (PFAS) Water Quality: PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

SSEHRI PFAS Contamination Sites: PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations https://pfasproject.com/pfas-contamination-site-tr acker/

Government Publication Date: Dec 12, 2019

Hazardous Materials Information Reporting System: HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs: NCDL

The U.S. Department of Justice ("the Department") provides this data 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.

Government Publication Date: Oct 5, 2020

Toxic Substances Control Act: TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.
The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).
Government Publication Date: Apr 11, 2019

Hist TSCA: HIST TSCA
The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.
The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.
Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing: FTTS ADMIN
An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.
Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing: FTTS INSP
An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.
Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List: PRP
Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.
Government Publication Date: Oct 20, 2021

State Coalition for Remediation of Drycleaners Listing: SCRD DRYCLEANER
The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.
Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS): ICIS
The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.
Government Publication Date: Jun 14, 2021

Drycleaner Facilities: FED DRYCLEANERS
A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.
Government Publication Date: May 5, 2021

Delisted Drycleaner Facilities: DELISTED FED DRY
List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).
Government Publication Date: May 5, 2021

Formerly Used Defense Sites: FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: May 26, 2021

Former Military Nike Missile Sites: FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents: PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS): MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites: HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File: MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: Nov 2, 2021

Surface Mining Control and Reclamation Act Sites: SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (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 Abandoned Mine Land (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.

Government Publication Date: Dec 18, 2020

Mineral Resource Data System: MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2006

Uranium Mill Tailings Radiation Control Act Sites: URANIUM

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

Government Publication Date: Mar 4, 2017

Alternative Fueling Stations: ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Oct 25, 2021

Registered Pesticide Establishments: SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Apr 13, 2021

Polychlorinated Biphenyl (PCB) Notifiers: PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Nov 19, 2020

State

Dry Cleaning Facilities: DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Aug 27, 2021

Delisted Drycleaners: DELISTED DRYCLEANERS

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Aug 27, 2021

Non-Toxic Dry Cleaning Incentive Program: DRYC GRANT

A list of grant recipients of the Non-Toxic Dry Cleaning Incentive Program made available by the California Air Resources Board (CARB). The program provides grants to eligible dry cleaning businesses to assist them in transitioning away from PERC machines to alternative non-toxic and non-smog forming technologies.

Government Publication Date: Feb 28, 2018

Per- and Polyfluoroalkyl Substances (PFAS): PFAS

List of sites from the State Water Resources Control Board (SWRCB)'s GeoTracker at which one or more of the potential contaminants of concern are in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Jun 22, 2021

PFOA/PFOS Groundwater: PFAS GW

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards.

Government Publication Date: Oct 22, 2020

Hazardous Waste and Substances Site List - Site Cleanup: HWSS CLEANUP

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

Government Publication Date: May 20, 2021

List of Hazardous Waste Facilities Subject to Corrective Action: DTSC HWF

This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

Government Publication Date: Jul 18, 2016

EnviroStor Inspection, Compliance, and Enforcement: INSP COMP ENF

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Apr 29, 2021

School Property Evaluation Program Sites: SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: Sep 15, 2021

California Hazardous Material Incident Report System (CHMIRS): CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Aug 1, 2021

Historical California Hazardous Material Incident Report System (CHMIRS): HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Jan 1, 1993

Hazardous Waste Manifest Data: HAZNET

A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Oct 24, 2016

Historical Hazardous Waste Manifest Data: HIST MANIFEST

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

DTSC Registered Hazardous Waste Transporters: HW TRANSPORT

The California Department of Toxic Substances Control (DTSC) maintains this list of Registered Hazardous Waste Transporters.

Government Publication Date: Oct 19, 2020

Registered Waste Tire Haulers: WASTE TIRE

This list of registered waste tire haulers is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Dec 16, 2020

California Medical Waste Management Program Facility List: MEDICAL WASTE

This list of Medical Waste Management Program Facilities is maintained by the California Department of Public Health. The Medical Waste Management Program (MWMP) regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations. This list contains transporters, treatment, and transfer facilities.

Government Publication Date: Dec 31, 2020

Historical Cortese List: HIST CORTESE

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

Cease and Desist Orders and Cleanup and Abatement Orders: CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Dec 6, 2021

California Environmental Reporting System (CERS) Hazardous Waste Sites: CERS HAZ

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Sep 24, 2021

Delisted Environmental Reporting System (CERS) Hazardous Waste Sites: DELISTED HAZ

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Nov 29, 2018

Sites in GeoTracker: GEOTRACKER

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Jun 22, 2021

Mines Listing: MINE

This list includes mine site locations extracted from the Mines Online database, maintained by the California Department of Conservation. Mines Online (MOL) is an interactive web map designed with GIS features that provide information such as the mine name, mine status, commodity sold, location, and other mine specific data. Please note: Mine location information is provided to assist experts in determining the location of mine operators in accordance with California Civil Code section 1103.4 and reflects information reported by mine operators in annual reports provided under Public Resources Code section 2207. While the Division of Mine Reclamation (DMR) attempts to populate MOL with accurate location information, the DMR cannot guarantee the accuracy of operator reported location information.

Government Publication Date: Jan 12, 2021

Recorded Environmental Cleanup Liens: LIEN

The California Department of Toxic Substance Control (DTSC) maintains this list of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties.

Government Publication Date: Dec 15, 2021

Waste Discharge Requirements: WASTE DISCHG

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Government Publication Date: Oct 20, 2021

Toxic Pollutant Emissions Facilities: EMISSIONS

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program. This program requires emission inventory updates every four years.

Government Publication Date: Dec 31, 2019

Clandestine Drug Lab Sites: CDL

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/clandestine drug laboratories.

Government Publication Date: Jan 19, 2021

Tribal

No Tribal additional environmental record sources available for this State.

County

Riverside County - Hazardous Waste Generator Sites List: HWG RIVERSIDE

A list of Hazardous Waste Generator Sites in the County of Riverside. This list is made available by Riverside County Department of Environmental Health which has been designated as the CUPA for the County.

Government Publication Date: Jul 22, 2021

Riverside County - Disclosure Facility List: HZH RIVERSIDE

A list of facilities disclosed to Riverside County Department of Environmental Health (DEH). This list is made available by Riverside County DEH which has been designated as the CUPA for the County. A business is required to establish and submit a Business Plan if the facility handles hazardous material equal to or greater than 55 gallons, 500 pounds or 200 cubic feet at any time during the year.

Government Publication Date: Jul 22, 2021

Riverside County - Medical Waste Facilities: MED WST RIVERSIDE

This list of active and inactive medical waste facilities is maintained by the County of Riverside Department of Environmental Health.

Government Publication Date: Sep 1, 2020

Riverside County - California Accidental Release Prevention Program Sites: RMP RIVERSIDE

This list of Riverside County California Accidental Release Prevention Program sites is maintained by the County of Riverside Department of Environmental Health. AB 3777 was enacted in 1986 to minimize potential emergencies involving acutely hazardous materials by requiring facilities which handle these materials to submit Risk Management Prevention Plans. The Riverside County Department of Environmental Health Hazardous Materials Branch began implementation of this Program County-wide in January 1991. All cities within Riverside County are included in this list.

Government Publication Date: Jul 29, 2020

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

APPENDIX C
REGULATORY AGENCY RECORDS

Search Results for:

14050 Day St, Moreno Valley, California, 92553

The facility list below is based upon the facilities that are visible with the map above. To refine your search to a more targeted area of interest, please visit the Envirofacts Multisystem Search Form <https://epa.gov//enviro.epa.gov/facts/multisystem.html>. To search Envirofacts via an interactive map, please view your results in EnviroMapper for Envirofacts

List of EPA-Regulated Facilities in Envirofacts

Copy **CSV** **Excel** **PDF** **Print**

Showing 1 to 1 of 1 entries *Show* 10 *entries* *Search:*

First ***Previous*** *1* ***Next*** ***Last***

FACILITY INFORMATION	***AFS*** <https://www.epa.gov/enviro/icis-air-overview>	***ACRES*** <https://www.epa.gov/cleanups/cleanups-my-community>	***BR*** <https://www.epa.gov/enviro/br-overview>	***SEMS*** <https://www.epa.gov/enviro/sems-overview>	***GHG*** <https://www.epa.gov/enviro/greenhouse-gas-overview>	***PCS/ICIS*** <https://www.epa.gov/enviro/icis-overview>

FACILITY INFORMATION	AFS <https://www.epa.gov/enviro/icis-air-overview>	ACRES <https://www.epa.gov/cleanups/cleanups-my-community>	BR <https://www.epa.gov/enviro/br-overview>	SEMS <https://www.epa.gov/enviro/sems-overview>	GHG <https://www.epa.gov/enviro/greenhouse-gas-overview>	PCS/ICIS <https://www.epa.gov/enviro/icis-overview>
BAS RECYCLING 14050 DAY ST MORENO VALLEY, CA 92553 Latitude: 33.91412 Longitude: -117.27769 Summary Report Facility Report Compliance Report						View Report

Showing 1 to 1 of 1 entries Show 10 entries Search:

First Previous 1 Next Last

Total Number of Facilities Displayed: 1

Return to more topical information <https://epa.gov//enviro.epa.gov/index.html>

Data Refresh Information <https://epa.gov/resources/echo-data/about-the-data#sources>

Facility Search Results

Missouri, Nebraska, North Carolina, Pennsylvania, Vermont, Washington, West Virginia, and Wisconsin are working with EPA to fix problems with their Clean Water Act violation data. Read More...

Map Legend | Basemap Options | EJSCREEN ☐ Add EJ Summary Map US ◯ State | Zoom To

Enter city, state, and/or zip code

Customize Columns | Download Data | Quick CSV Download | Results Guide | Reports Legend

Facility Summary

Select a facility row from the search results table.

Current Search

1 Facilities Found

Selected Criteria

Media Program: All Media Programs
Address: 14050 Day Street ✖
State: California ✖
Active/Operating: Yes ✖
ZIP Code: 92553 ✖
City: Moreno Valley ✖

Explore Enforcement and Compliance Criteria

☐ **1** Facilities with Current Violations
☐ **0** Facilities with Significant Violations
☐ **1** Facilities with Violations (3 years)
☐ **0** Facilities with Formal Enforcement Actions (5 years)
☐ **1** Facilities with Informal Enforcement Actions (5 years)

Modify Search

Facility Name	Mapped	Street Address	City	State	FRS ID	Reports	Count of EJ Indexes Above 80th Percentile (US)	Inspections (5 years)	Significant Violations	C N
BAS RECYCLING		14050 DAY ST	MORENO VALLEY	CA	110059741347		10	1	No	

▼ **Filter Facilities** —

Not Filtering on 1 Facilities

☐ Only Show Matches

Facility Characteristics

Facility Type

☐ **0** Major ☐ **1** Minor

Facility Permit/ID

☐ **1** Has Water Permit (ICIS-NPDES)
☐ **0** Has ICIS-Air ID
☐ **1** Has RCRA ID
☐ **0** Has TRI Releases

Enforcement and Compliance Characteristics

☐ **1** Facilities with Violations (1 or more quarters within the past 3 years)

1 2 3 4 5 6 7 8 9 10 11 12

Facilities with Formal Enforcement Actions (5 yrs)

☐ **0** Yes ☐ **1** No

1 2 3 4 5

Facilities with Informal Enforcement Actions (5 yrs)

☐ **1** Yes ☐ **0** No

1 2 3 4 5

Facilities Inspected within Date Range

☐ **0** Yes ☐ **1** No

mm/d mm/d

Community Characteristics

☐ **1** Facilities Located in Areas with EJ Indexes Above 80th Percentile (US)

◉ Any ○ 1 or More ○ 4 or More ○ 7 or More ○ 10 or More

▼ Layers

Each map layer requires a specific map scale for display. Layers are only available for selection if the map is zoomed in to a sufficient scale. Zoom in further to enable selection of additional layers. Note that adding multiple overlapping map layers may cause performance issues in the browser and display.

☐ Do not show again

Current Zoom: 100%

▶ **EJSCREEN Maps**

▶ **Air Maps**

▶ **Water Maps**

▶ **Places**

▶ **Boundaries**

▶ **Endangered Species Act Critical Habitat**

DATA REFRESH INFORMATION

Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control
Meredith Williams, Ph.D., Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Gavin Newsom
Governor

EPA ID PROFILE

Map

ID Number:	CAL000343884	**Status:**	ACTIVE
Name:	BAS RECYCLING INC	**Inactive Date:**	
County:	RIVERSIDE	**Record Entered:**	6/11/2009 3:00:47 PM
NAICS:	811198	**Last Updated:**	8/4/2021 9:52:25 AM

	Name	Address	City	State	Zip Code	Phone
Location	BAS RECYCLING INC	14050 DAY ST	MORENO VALLEY	CA	92553	
Mailing		14050 DAY ST	MORENO VALLEY	CA	925530000	
Owner	BAS RECYCLING INC	15305 SPRING AVE	SANTA FE SPRINGS	CA	906700000	5628022752

Operator/Contact	FLORIN ARDELEAN	14050 DAY ST	MORENO VALLEY	CA	92553	9512146590

Based Only Upon ID Number: **CAL000343884**

Calif. Manifests?	Non Calif. Manifests?	Transporter Registration?
Yes	N/A	N/A

California and Non California Manifest Tonnage Total and Waste Code by Year Matrix by Entity Type (if available) are on the next page

Calif. Manifest Counts and Total Tonnage

Top line represents Manifest Count and Bottom line represents Total Tonnage

Year	Generator	Trans. 1	Trans. 2	TSDF	ALT. TSDF
2010	4 0.92150	0 0.00000	0 0.00000	0 0.00000	0 0.00000
2011	5 1.13650	0 0.00000	0 0.00000	0 0.00000	0 0.00000
2012	2 0.45500	0 0.00000	0 0.00000	0 0.00000	0 0.00000
2014	1 1.04500	0 0.00000	0 0.00000	0 0.00000	0 0.00000
2016	1 0.63000	0 0.00000	0 0.00000	0 0.00000	0 0.00000
2017	1 1.15900	0 0.00000	0 0.00000	0 0.00000	0 0.00000

Non California Manifest Total Tonnage

No Records Found

Waste Code Matrix					
California	**Generator**	**Trans. 1**	**Trans. 2**	**TSDF**	**Alt. TSDF**
RCRA	**Generator**	**Trans. 1**	**Trans. 2**	**TSDF**	**Alt. TSDF**

Waste Code Matrix as a spreadsheet

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 12/27/2021

Jared Blumenfeld
Secretary for
Environmental Protection

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
1001 "I" Street
P.O. Box 806
Sacramento, California 95812-0806

Gavin Newsom
Governor

Facility Search Results

Selection Criteria:

Facility:	
Search on:	Physical Address
Street:	14050
City:	Moreno Valley
Zip:	92553
County:	RIVERSIDE
Status:	Active and Inactive
Sort Direction:	asc
Sorted By:	EPA ID
Records Found:	5

EPA ID Number	Name	Address	City	Zip
CAC003141623	FIRST INDUSTRIAL LP	14050 DAY ST	MORENO VALLEY	92553
CAC003142215	FIRST INDUSTRIAL LP	14050 DAY ST.	MORENO VALLEY	92553
CAL000260427	JOHN SANGA	14050 DAY ST	MORENO VALLEY	92553
CAL000343884	BAS RECYCLING INC	14050 DAY ST	MORENO VALLEY	92553
CAL000464375	LAKIN TIRE	14050	MORENO	92553

	WEST LLC DBA BAS RECYCLING	DAY ST	VALLEY

The Department of Toxics Substances Control (DTSC) takes every precaution to ensure the accuracy of data in the Hazardous Waste Tracking System (HWTS). However, because of the large number of manifests handled, inaccuracies in the submitted data, limitations of the manifest system and the technical limitations of the database, DTSC cannot guarantee that the data accurately reflect what was actually transported or produced.

Report Generation Date: 12/27/2021

Department of Toxic Substances Control

Jared Blumenfeld
Secretary for
Environmental Protection

Meredith Williams, Acting Director
5796 Corporate Avenue
Cypress, California 90630

Gavin Newsom
Governor

December 27, 2021

Samantha Weis
Weis
sw@weisenviro.com

PR4-122321-03
14050 Day St., Moreno Valley

Dear Requestor:

On December 23, 2021, the Department of Toxic Substances Control (DTSC) received your email of December 23, 2021, requesting records under the Public Records Act. After a thorough review of our files, *no site records* were found pertaining to the sites/facilities referenced above.

DTSC Generator information: DTSC Cypress Office does not house Generator/**HWTS** Records.

DTSC's Hazardous Waste Tracking System (**HWTS**) may have records that pertain to this request. This unit tracks toxic waste generators, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS unit by email at hwtsreports@dtsc.ca.gov or by phone at (800) 618-6942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions, would like further information regarding your request, please contact me, via email at jone.barrio@dtsc.ca.gov

Sincerely,
Jone Barrio
Jone Barrio
Regional Records Coordinator

County of Riverside

DEPARTMENT OF ENVIRONMENTAL HEALTH

KEITH JONES, DIRECTOR

February 19, 2022

Riverside County Hazardous Materials has reopened to limited in-person services. We will be implementing the best practices to serve our customers in person while preventing the transmission and spread of COVID-19.

Due to the ongoing COVID-19 national state of emergency, and Orders by the Riverside County Health Officer, the Riverside County Department of Environmental Health has continued to request that our employees work remotely to support you.

Records Request services will continue to be available but please be patient with us and understand that staff is limited.

Responses will be provided **temporarily via email** and will resume to respond via US Mail once the pandemic has rectified.

During this time records will be provided in five different ways after fees are paid.

1) In office appointments for viewing of larger files only
2) Email – Only small files **no larger than ¼ inch qualify**
3) US Mail – files that are appropriately sized for mailing will qualify – **Additional Copy and Reproduction Fees will apply**
4) USPS / FedEx – larger files that are unable to be mailed via US Mail will be shipped at the requestor's expense – **Additional Copy and Reproduction Fees will apply**
5) Pick Up – By appointment only – **Additional Copy and Reproduction Fees will apply**

For questions please call (951) 358-5055 or visit our website for information www.rivcoeh.org

Environmental Protection & Oversight Division
Hazardous Materials Management Branch
Attn: Records Management
P.O. Box 7909
Riverside, CA 92513-7909
Ph: (951) 358-5055
Fax (951) 358-5342

*additional fees may include costs for appt. cancellation/no show, time per service, scan/fax/mail of documents, cd/dvd

County of Riverside

DEPARTMENT OF ENVIRONMENTAL HEALTH

KEITH JONES, DIRECTOR

RELEASE OF RECORDS RESPONSE

February 19, 2022

Service Request No: 53445

Weis Environmental
1938 Kellogg Ave.
Suite 116
Carlsbad, CA 92008
Attn: Samantha Weis

Your request concerning **Hazardous Materials Management Records** has been received and a file search has been conducted. The appropriate action has been taken.

Site Address	City	Records Found
14050 Day St.	**Moreno Valley**	☒ **YES** ☐ **NO**
THIS IS NOT AN INVOICE	**Estimated Cost**	**$12.90**

If no records are found, no further action will be taken.

If records are found, please contact our office at (951) 358-5055 to schedule a file review appointment. Records will be available for 30 days from the date of this letter, after which a new Records Request will need to be submitted.

** There is a clerical records research fee of **$.50 for the first page, plus $.10 per additional page **Records will not be made available until this fee is paid****

Other fees may apply

Note: Additional time for processing may be required

Appointments are scheduled in one (1) hour increments, not to exceed two (2) hours.

Environmental Protection & Oversight Division
Hazardous Materials Management Branch
Attn: Records Management
P.O. Box 7909
Riverside, CA 92513-7909
Ph: (951) 358-5055
Fax (951) 358-5342

*additional fees may include costs for appt. cancellation/no show, time per service, scan/fax/mail of documents, cd/dvd

4065 County Circle Drive, Room 104, Riverside CA 92503
(951) 358-5055
Fax (951) 358-5342
Mailing Address: P.O. Box 7909, Riverside, CA 92513-7909
www.rivcoeh.org

County of Riverside Community Health Agency • Department of Environmental Health

Hazardous Materials Management Division

Change of Status Form

Mandatory Information Must Be Completed For All Change Of Status Request.

Date: 11/28/07 **Facility I.D.#:** PR0031028 FA0020016 ☐ New **Specialist:** N. Crain

ENTER INFORMATION TO BE CHANGED

Type	Former/OOB Information	Current
DBA/Facility Name	Thor Manufacturing	
Facility Address	14050 Day St	
	Moreno Valley, CA	
Facility Phone Number		
Mailing Address		
		Same X
Owner	[redacted]	
Owner Phone Number		
Jurisdiction: ☐ Bann	Riverside	X All Other/Unincorporated

Type of Change Requested (check all that apply)

- ☐ New Facility
- ☐ New Permit
- X OOB (Out of Business)
- ☐ Exempt
- ☐ Billing Invoice Needed
- ☐ Mail: _____ UST Application
  _____ Generator Application
  _____ Business Emergency Plan Packet
  _____ ☐ Completed by Clerical _____(initial)

Generator
Number of Employees _____

Disclosure
Level I
Update _____

Tanks
Number of Tanks _____
Tank I.D. # _____
Tank Contents _____
Tank Size _____

- ☐ Tank(s) Added
- ☐ Tank(s) Removed
- ☐ Plan Check # _____
- ☐ Cal-ARP
- ☐ Tiered Permitting

Comments: OOB verified as of 11/28/07 pending removal of hazardous material.

New Owner ☐ Change of Address Only ☐ Facility Moved ☐ Bulk Liquid Co2

Forward form for review and initial by the following sequence after completion

1) Supervisor CP Initial 1/30/08 Date 2) Clerical ROSIE ALVARADO Initial JAN 25 2008 Date 3) Accounting X Initial 1/8/08 Date

Updated 6/19/2006 TOBrien

From: Nicholas Crain
To: Tania Jaime
Date: 11/27/2007 8:16 AM
Subject: Re: FA0020016 (Thor Manufacturing)

Hello Again!

Facility appears to not be OOB. Looks like hazardous materials are still stored onsite. I've attempted to contact facility, but the number is a general number-left two messages with various people. People listed on BEP are out-of-date. Will continue to attempt to contact people to obtain inspection and keep you apprized.

Nick

>>> Tania Jaime 11/20/07 9:01 AM >>>
Hi Nick,

Please verify OOB and submit blue.

Thanks. Tania.

11/26/07-NCK

THORCALIFORNIA

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
Tania 888-722-4234 fax 951-358-5017	Geri Sparks – Special Projects 951-413-0342 fax 951-656-6702
COMPANY: DEPT. OF ENVIRONMENTAL HEALTH	DATE: 11-8-2007
FAX NUMBER: 951-358-5017	TOTAL NO. OF PAGES INCLUDING COVER 7
PHONE NUMBER:	SENDER'S REFERENCE NUMBER:
RE:IN0012733	YOUR REFERENCE NUMBER:

X URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

The attached invoice involves our former plant located at 14050 Day Street in Moreno Valley. This plant has been closed for a year, and the permit should be canceled.

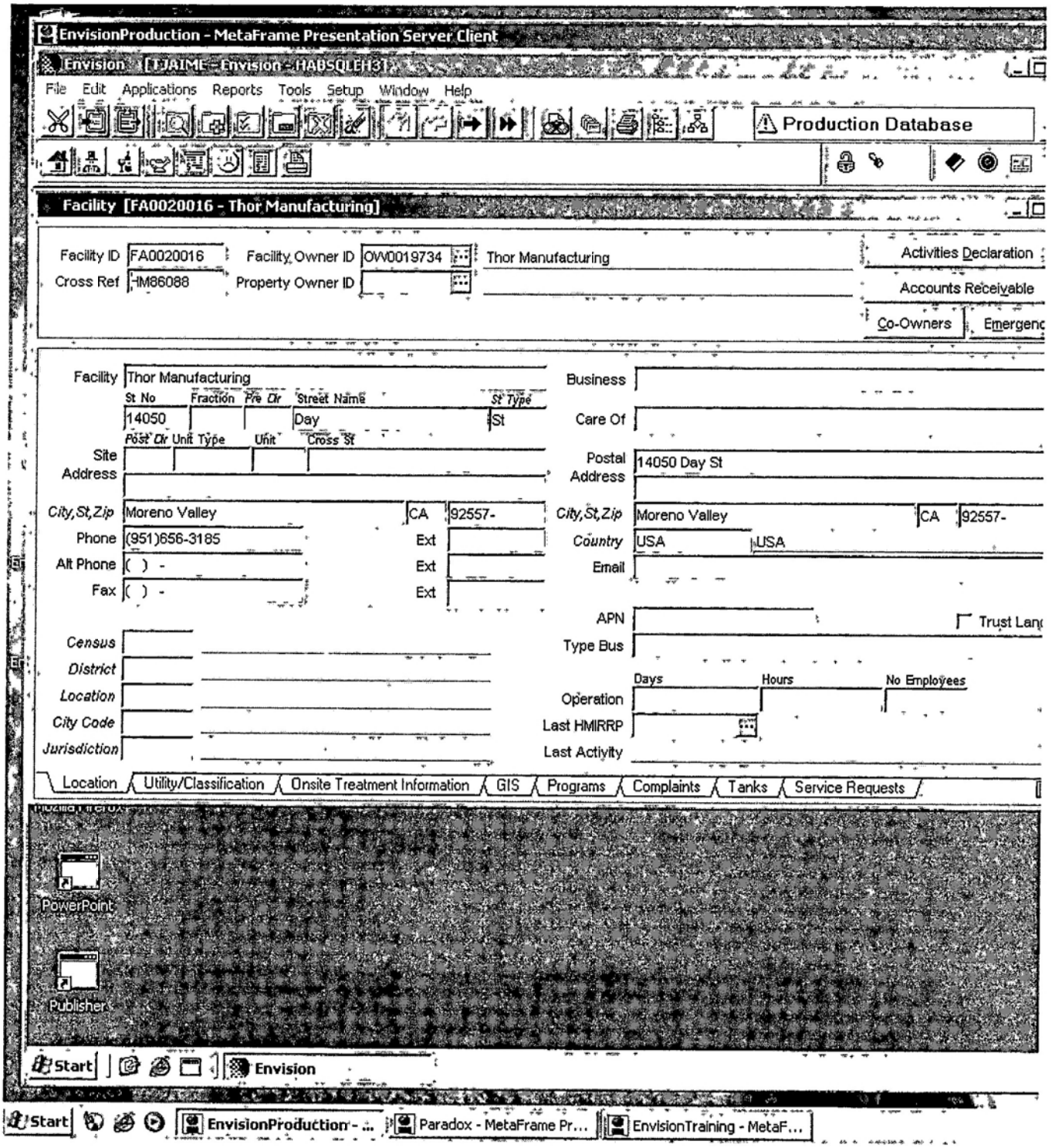
Sincerely

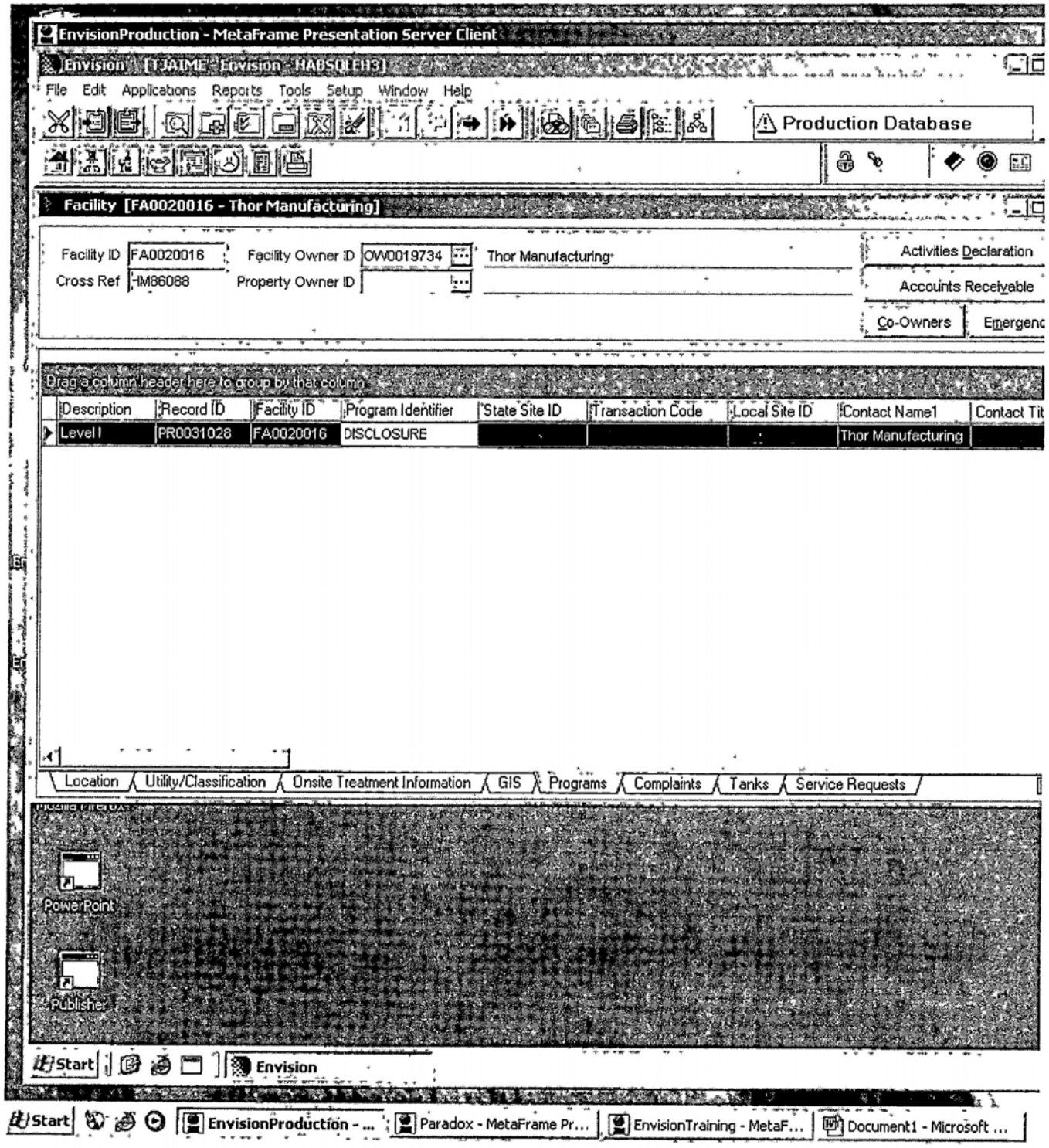
Geri Sparks
Thor California
951-697-8467 x 342

11/20/07 Nick

This facility has been OOB for over a year. Please verify and submit blue sheet.

Thanks.




EnvisionProduction - MetaFrame Presentation Server Client
Envision [TJAIME - Envision - HABSQLEH3]
File Edit Applications Reports Tools Setup Window Help
Production Database
Facility [FA0020016 - Thor Manufacturing]
Facility ID FA0020016
Facility Owner ID OW0019734
Thor Manufacturing
Cross Ref IM86088
Property Owner ID
Activities Declaration
Accounts Receivable
Co-Owners
Drag a column header here to group by that column
Description
Record ID
Facility ID
Program Identifier
State Site ID
Transaction Code
Local Site ID
Contact Name1
Level I
PR0031028
FA0020016
DISCLOSURE
Thor Manufacturing
Location
Utility/Classification
Onsite Treatment Information
GIS
Programs
Complaints
Tanks
Service Requests
PowerPoint
Publisher
Start
Envision
Start
EnvisionProduction - ...
Paradox - MetaFrame Pr...
EnvisionTraining - MetaF...
Document1 - Microsoft ...

10/9/07

11/20/07. Nick

From: Rebecca Ortiz
To: Pence, Sande
Subject: Thor Mfg (Fac#20016)

Hi Sande
Edgar Camacho with Thor Mfg at 14050 Day St Moreno Valley called to inform us that they do not have hazmat at their site. Please verify and let me or Tania know the outcome.
Thanks
Rebecca

COUNTY OF RIVERSIDE • COMMUNITY HEALTH AGENCY

DEPARTMENT OF ENVIRONMENTAL HEALTH

Certified Unified Program Agency

HAZARDOUS MATERIALS MANAGEMENT PERMIT

NON-TRANSFERABLE

Owner: Thor Manufacturing
DBA: Thor Manufacturing
Mailing Address: 14050 Day St
City and State: Moreno Valley, CA 92557

EPA ID#: CAL000104687
Facility Number: 86088
Expiration Date: 9/28/2007

Area: 2 District: 1

Type of Business: Hazardous Materials Facility

Facility Location: 14050 Day St
City: Moreno Valley

Hazardous Materials Disclosure -- County Ordinance No. 651

Wednesday, October 11, 2006
Date Issued

Gary L. Root, Director
Department of Environmental Health

This permit is granted for the business indicated on the condition that the business will comply with the laws, ordinances, and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of Riverside pertaining to the above mentioned business. This permit serves as a receipt for payment of fees for the above-listed programs. **This permit must be renewed on or before the Expiration Date indicated above. This permit may be suspended or revoked for cause. Inspection of this business may be conducted by a duly authorized representative of the Department of Environmental Health.**

Western County Office
4065 County Circle Dr.
Riverside, CA 92503
(951) 358-5055

Corona Office
2275 S. Main Street #204
Corona, CA 92882
(951) 273-9143

Desert County Office
47950 Arabia Street, Suite A
Indio, CA 92201
(760) 863-8976

South County Office
800 S. Sanderson
Hemet, CA 92545
(951) 766-6524

POST IN A CONSPICUOUS PLACE

COUNTY OF RIVERSIDE • COMMUNITY HEALTH AGENCY

DEPARTMENT OF ENVIRONMENTAL HEALTH

Certified Unified Program Agency

HAZARDOUS MATERIALS MANAGEMENT PERMIT

NON-TRANSFERABLE

Owner: Thor Manufacturing
DBA: Thor Manufacturing
Mailing Address: 14050 Day St
City and State: Moreno Valley, CA 92557

EPA ID#: CAL000104687
Facility Number: 86088
Expiration Date: 9/28/2006

Area: 1 District: 6

Type of Business: Hazardous Materials Facility

Facility Location: 14050 Day St
City: Moreno Valley

Hazardous Materials Disclosure -- County Ordinance No. 651

Friday, October 28, 2005
Date Issued

Gary L. Root, Director
Department of Environmental Health

This permit is granted for the business indicated on the condition that the business will comply with the laws, ordinances, and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of Riverside pertaining to the above mentioned business. This permit serves as a receipt for payment of fees for the above-listed programs. **This permit must be renewed on the Expiration Date indicated above. This permit may be suspended or revoked for cause. Inspection of this business may be conducted by a duly authorized representative of the Department of Environmental Health.**

Western County Office
4065 County Circle Dr.
Riverside, CA 92503
(951) 358-5055

Desert County Office
47-923 Oasis Street E4
Indio, CA 92201
(760) 863-8976

Central County Office
800 South Sanderson Avenue
Hemet, CA 92545
(951) 766-6524

POST IN A CONSPICUOUS PLACE

County of Riverside Community Health Agency • Department of Environmental Health
Hazardous Materials Management Division

Change of Status Form

Mandatory Information Must Be Completed For All Change Of Status Request.

Date: 7/19/04 Facility I.D. #: 860888 ☐ New Specialist:

ENTER INFORMATION TO BE CHANGED

Type	Former/OOB Information	Current
DBA/Facility Name	Maestro Products	Thor Manufacturing
Facility Address	14050 Day St.	same
	Moreno Valley 92557	
Facility Phone Number		
Mail Address		same
		☐ Same
Owner	Maestro Products	Thor Manufacturing
Owner Phone Number		

Jurisdiction: ☐ Banning ☐ Corona ☐ Riverside ☐ All Other/Unincorporated

Type of Change Requested (check all that apply)

- ☐ New Facility
- ☐ New Permit
- ☒ OOB (Out of Business)
- ☐ Exempt
- ☒ Billing Invoice Needed
- ☐ Mail : ___ UST Application
  ___ Generator Application
  ___ Business Emergency Plan Packet
  ☐ Completed by Clerical ____ (initial)
- ☐ Generator
  Number of Employees N/A
- ☒ Disclosure
  Level I
  Update
- ☐ Tanks
  Number of tanks
  Tank I.D. #
  Tank Contents
  Tank Size
- ☐ Tank(s) Added
- ☐ Tank(s) Removed
- ☐ Plan Check #
- ☐ Cal-ARP
- ☐ Tiered Permitting

Comments: Amanda 9/28/04

☐ New Owner ☐ Change of Address Only ☐ Facility Moved ☐ Bulk Liquid Co2

Forward form for review and initial by the following sequence after completion:

1) Supervisor ____ Initial 7-20-04 Date 2) Clerical ____ Initial ____ Date 3) Accounting ____ Initial 7/20/04 Date

COUNTY OF RIVERSIDE • COMMUNITY HEALTH AGENCY

DEPARTMENT OF ENVIRONMENTAL HEALTH

Certified Unified Program Agency

HAZARDOUS MATERIALS MANAGEMENT PERMIT

NON-TRANSFERABLE

Owner: Thor Manufacturing
DBA: Thor Manufacturing
Mailing Address: 14050 Day St
City and State: Moreno Valley, CA 92557

Facility Number: 86088
Expiration Date: 9/28/2005

Area: 1 District: 4

Type of Business: Hazardous Materials Facility

Facility Location: 14050 Day St
City: Moreno Valley

Hazardous Materials Disclosure -- County Ordinance No. 651

Tuesday, September 07, 2004
Date Issued

Gary A. Root, Director
Department of Environmental Health

This permit is granted for the business indicated on the condition that the business will comply with the laws, ordinances, and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of Riverside pertaining to the above mentioned business. This permit serves as a receipt for payment of fees for the above-listed programs. **This permit must be renewed on the Expiration Date indicated above. This permit may be suspended or revoked for cause. Inspection of this business may be conducted by a duly authorized representative of the Department of Environmental Health.**

Western County Office
4065 County Circle Dr.
Riverside, CA 92503
(909) 358-5055

Desert County Office
47-923 Oasis Street E4
Indio, CA 92201
(760) 863-8976

Central County Office
800 South Sanderson Avenue
Hemet, CA 92545
(909) 766-6524

POST IN A CONSPICUOUS PLACE

COUNTY OF RIVERSIDE
MAY 9, 1893

Angie

County of Riverside Community Health Agency • Department of Environmental Health
Hazardous Materials Management Division

Change of Status Form

Mandatory Information Must Be Completed For All Change Of Status Request.

Date: 1/23/03 **Facility I.D. #:** 86088

Specialist: Bruce Bailey

ENTER INFORMATION TO BE CHANGED

Type	Former/OOB Information	Current
DBA/Facility Name	~~[illegible]~~	THOR MANUFACTURING
Facility Address		14050 Day St. M.V.
Facility Phone Number		
Mail Address		
Owner		
Owner Phone Number		
Jurisdiction: ❑ Banning ❑ Corona ❑ Riverside ❑ All Other/Unincorporated		

Type of Change Requested (check all that apply)

- ❑ New Facility
- ❑ New Permit
- ❑ OOB (Out of Business)
- ❑ Exempt
- ❑ Billing Invoice Needed
- ❑ Mail _____ UST Application
  _____ Generator Application
  _____ Business Emergency Plan Packet

7

- ❑ Generator
  Number of Employees _____
- ☒ Disclosure
  Level I
  Update _____
- ❑ Tanks
  Number of tanks _____
  Tank I D # _____
  Tank Contents _____
  Tank Size _____
- ❑ Tank(s) Added
- ❑ Tank(s) Removed
- ❑ Plan Check # _____

Comments: _____

Forward form for review and initial by the fol1owing sequence after completion.

1) Supervisor _____ (Initial) _____ (Date) 2) Clerical _____ (Initial) _____ (Date) 3) Accounting _____ (Initial) _____ (Date)

Ver: Dec 2002

County of Riverside Community Health Agency • Department of Environmental Health
Hazardous Materials Management Division

Change of Status Form

Mandatory Information Must Be Completed For All Change Of Status Request.

Date: 1/23/03 **Facility I.D. #:** 060088

Specialist: Bruce Bailey

ENTER INFORMATION TO BE CHANGED

Type	Former/OOB Information	Current
DBA/Facility Name	~~[illegible]~~	THOR MANUFACTURING
Facility Address		14050 Day St. Mry.
Facility Phone Number		
Mail Address		
Owner		
Owner Phone Number		
Jurisdiction: ☐ Banning ☐ Corona ☐ Riverside ☐ All Other/Unincorporated		

Type of Change Requested (check all that apply)

- ☒ New Facility
- ☒ New Permit
- ☐ OOB (Out of Business)
- ☐ Exempt
- ☒ Billing Invoice Needed
- ☐ Mail ____ UST Application
  ____ Generator Application
  ____ Business Emergency Plan Packet
- ☒ Generator
  - Number of Employees 25
- ☒ Disclosure
  - Level I
  - Update ____
- ☐ Tanks
  - Number of tanks ____
  - Tank I D # ____
  - Tank Contents ____
  - Tank Size ____
- ☐ Tank(s) Added
- ☐ Tank(s) Removed
- ☐ Plan Check # ____

Comments: ____

Forward form for review and initial by the following sequence after completion.

1) Supervisor ____ Initial 2/13/03 Date 2) Clerical ____ Initial 3/3/03 Date 3) Accounting ____ Initial 3/3/03 Date

Ver: Dec 2002

C3

Certified Unified Program Agency
County of Riverside Community Health Agency
Department of Environmental Health
Hazardous Materials Management Division

SUPPLEMENTAL REPORT

Reference Date 11/28/07

Name Thor California (Manufacturing)

Address 14050 Day St., Moreno Valley, CA

Re: Out of Business Field Verification Facility # 86088

Remarks: Met personnel on location to conduct inspection to determine out-of-business status.

While onsite, observed chemical/hazardous material storage area including 500 gallon propane tank (contents unknown), 55 gallon diesel drums (empty), 55 gallon hydraulic oil drum (partly full), misc. sized adhesive containers (quart to 55 gal drum) with dry residue, misc. sized paint containers (1-5 gal); palletized foam cylinders outside; 2 pallets of misc. sized paint on the inside of building, along with 55 gallon solvent drum (parts cleaner - may be waste) and misc. glue/adhesive containers and aerosol cans. Also observed hopper with wood-dust on south-side of building (Containment in large bin and 55 gallon drum). Five-gallon buckets of oil also located on south-side.

All hazardous material, including any waste, needs to be properly transported or hauled off-site to qualify as out-of-business. Subsequently, permit fees will no longer be owed for this facility. Any hazardous material transported to Thor Facility on Ellsworth will need to be inventoried and bill-of-ladeing will be required. Any hazardous waste needs to be properly disposed of and manifest records will need to be reviewed by this department.

Pictures were taken at time of inspection to account for inventory. Bill-of-ladeing and/or hazardous waste manifests must include all items currently onsite that are hazardous material or once contained hazardous material.
Inspection at Thor's Ellsworth facility may follow final out-of-business verification at subject facility.

Feel free to call 951-766-6574 with any questions

Left Universal Waste Handling guidelines, Registered Haz. Waste Transporter list, Container recycling list, and hazardous waste Fact sheet at time of inspection

Specialist Nicholas Crain Received By Greg Lewis

ENTERED 10-1-07 AW

9/3/07

THORCalifornia Fac # 86088

BUSINESS EMERGENCY PLAN

14050 Day St.
Moreno Valley

Hazardous Materials

Policies and Procedures Manual

and

MSDS
(Material Safety Data Sheets)

ENTERED 2-2-06 Updated

POST FOR EMPLOYEES

HAZARDOUS MATERIALS BUSINESS EMERGENCY PLAN: EMERGENCY NOTIFICATION

During an emergency involving a release or a threatened release of a hazardous material you must notify appropriate agencies. Information you should be prepared to supply includes:

1. Name and telephone number of the reporting party;
2. Name and address of business;
3. Time and type of release (e.g., damaged containers, malfunctioning equipment, etc.);
4. Name and quantity of material(s) involved;
5. Extent and number of injuries;
6. Actions taken or being taken to mitigate or reduce emergency;
7. Potential hazards to human health or the environment surrounding the business.

AGENCY NOTIFICATION:

Fire Department.....911
Ambulance/Paramedic.....911
Police/Sheriff.....911

Hospital _____ Phone #_____

Primary Facility Emergency Contact Person
Name_____ Phone #_____

Hazardous Materials Management Division.....(909) 358-5055
CDF/Banning Fire Service..... (909) 922-3210
City of Corona Fire Department..... (909) 736-2220
City of Riverside Fire Department.....(909) 826-5321

California Office of Emergency Services.....(800) 852-7550
National Response Center.....(800) 424-8802
Poison Control Center.....(___)_____
Hazardous Materials Cleanup Contractor.....(___)_____

Name of Contractor (if applicable): _____

Other Contacts: _____

_____

_____

_____

Hazardous Materials

Policies and Procedures

These are the policies and procedures for handling all Hazardous Materials and Chemicals.

Our E.P.A. #CAL000104687

Policies:

1. Any and all chemicals must have an MSDS sheet with it. A copy must be given to Safety Manager, Lyle Sliva and Safety Coordinator, Robert Gutierrez. Robert will then have copies made and have them installed in MSDS Manuals. The MSDS Manuals and the **Business Emergency Plan** are located in:
2.
   A. The Master Copy is in the Safety Office
   B. The Plant Three Tool Crib

   No MSDS sheets shall be removed without prior approval from the Safety Manager, Lyle Sliva, and Safety Coordinator, Robert Gutierrez.

3. All MSDS sheets are available for viewing by employees during regular working business hours.

4. All MSDS controls must be followed, i.e. protective equipment, over exposure procedures and proper handling and disposal, etc., all of this and anything else must be followed to the exact procedure, according to how they are written in the MSDS sheet.

5. **Employees will receive yearly refresher training covering the following items:**

   - Review the Business Emergency Plan.
   - Review the proper handling and disposal of chemicals onsite.
   - Review the proper use of safety equipment onsite.

6. Any employee, who orders any chemicals, no matter what it may be, will be held responsible for the MSDS sheets. There responsibility will include making sure that Lyle and Robert have copies of any new MSDS sheets. If this policy is not carried out to the fullest ability the employee will be disciplined accordingly.

7. Once a decision has been made to discontinue the use of any chemical in the facility, a form must be completed and given to Mitch Curtis so that he can purge all books. This very important due to CAL-OSHA standards and our Hazardous Chemical plan.

8. MSDS sheets must be checked bi-monthly and purged of any chemicals that are no longer being used in our facility. If CAL-OSHA comes in for an inspection and asks to see our MSDS sheets and sees a chemical that requires special handling but we no longer have the chemical in our facility, we will be fined a substantial amount.

9. All drums of any type of chemical, full or empty, or when not in use, must be kept in our designated Hazard Material area. This is located at the north end of the Dock area, near door #15 of the material staging area.

10. Any waste that is generated has exactly 90 days to be disposed of from the first day it is generated.

11. If there should ever be any large spill, containment is absolute and...should be contacted immediately so they can assist in any way possible.
    Contact Name:
    Diana Hill at (626) 859-6377
    IDR Environmental Services, Inc.
    Hazardous Waste Management
    729 E. Arrow Hwy.
    Azusa, CA 91702

12. All manifest tracking and containment information must be kept for ten years from the first original ship-out date.

13. The blue copy of the Uniform Hazardous Waste Manifest must be mailed to:
    DTSC
    P.O. Box 400
    Sacramento, CA. 95812-0400
    This copy must be mailed within 30 days of receipt of the manifest.

14. All copies of any paperwork that is generated due to a pick-up of waste must file all forms in our manifest book located in the Safety Manager's office. No copies are ever to be removed from the book without the Safety Managers knowledge.

15. When calling for a regular pick-up you must indicate whether you will need a waste absorbent drum and a rag drum. Also, if there will be any other drums to be picked up and what there contents are.

Procedures

Hazardous Materials:

1. **Oxygen**
2. **Acetylene**

1. **Accidental Release Measures:** Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with inert gas prior to attempting repairs. If leak is in container or container valve, contact the appropriate emergency telephone number for BOC 1(800) 424-9300.

1. **Heat Transfer Oil**
2. **Antifreeze**
3. **Adhesives**
4. **Clear Thin - Spread Adhesive**
5. **Safe Clean Solvent**

1. **Spill:** If there is any type of spill, evacuate all personnel from affected area. Use appropriate protective equipment. Waste absorbent material is to be applied. All used absorbent materials are then placed in our waste absorbent can. Cement is to be cleaned completely with no residue to be left behind.

2. **Punctured Drum:** Drums are to be placed in the drum over pack as quickly as possible. Spill is then to be handled accordingly. See procedure number 1.

3. **Arrival:** When any chemical in a drum arrives it must be placed in the Hazardous Material areas immediately, it is not to be left anywhere in the facility other than the designated area.

4. **Departure:** When drums are being removed from the facility there must be an employee there during that time to monitor the Pick-Up. Also, to ensure that the proper drums are being removed.

5. **Usage:** When a drum is in use there must be a catch pan underneath it at all times while in use.

6. **Moving:** When one person is moving a drum he must use the *Drum Dolly* that is provided. Forklift drivers are to always use the *Drum Grab* to move any of the drums.

7. **Storage:** All drums are to remain in the Hazardous Material area at all times, unless being used. Drums must always be covered and kept separated, full with fulls, and empties with empties. The area is clearly marked and all procedures are to be continuously followed.

8. **Weather Conditions:** Drums are never to be left in the rain for any reason. Once they are emptied they must be returned to the Hazardous Material Area.

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor California

CHEMICAL LOCATION 201 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☑ NO

FACILITY ID # 8 6 0 8 8 1 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
251M Solvent Free Paint Cleaner w/ Corrosion Inhibitor

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207

EHS* ☐ Yes ☑ No 208

CAS# 209
None

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☑ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 55 Gallon Drum 215

FED HAZARD CATEGORIES (Check all that apply) 216
☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☑ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
2 To 4 Gallons			

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: Yearly 222

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☑ c. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 SPECIAL HAZARD ___ 246

HAZARD CLASS OR DIVISION #_____ UN#_____

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor California

CF 201 CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☒ NO

FACILITY ID # 8 6 0 8 8 1 MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Heat transfer oil

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
Oil

EHS* ☐ Yes ☒ No 208

CAS# 209
7440-66-6 68649-42-3

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211
RADIOACTIVE ☐ Yes ☒ No 212
CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214
LARGEST CONTAINER 55 Gallon Drum 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
N/A			

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.
DAYS ON SITE: ? 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☒ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 0 FLAMMABILITY 1 REACTIVITY 0 SPECIAL HAZARD 246

HAZARD CLASS OR DIVISION #_____ UN#_____
If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor Cal Motorhome

CHEMICAL LOCATION 201 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☒ NO

FACILITY ID # 8 6 0 8 8 1 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205: RV- Anti Freeze
TRADE SECRET 206: ☐ Yes ☒ No (If Subject to EPCRA, refer to instructions)
COMMON NAME 207: Anti Freeze
EHS* 208: ☐ Yes ☒ No
CAS# 209: None
*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211
RADIOACTIVE ☐ Yes ☒ No 212
CURIES 213
PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214
LARGEST CONTAINER 215: 55 Gallon Drum
FED HAZARD CATEGORIES (Check all that apply) 216: ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
1 To 2 Gallons			

UNITS* (Check one item only) 221: ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS (* If EHS, amount must be in pounds.)
DAYS ON SITE: 222: Yearly

STORAGE CONTAINER 223: ☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☒ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224: ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225: ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 SPECIAL HAZARD ___ 246

HAZARD CLASS OR DIVISION #_____ UN#_____
If EPCRA, Please Sign Here

OES Form 2731

Revised (5/03)

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor California

CHEMICAL LOCATION 01 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☑ NO

FACILITY ID # 8 6 0 8 8 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Acetylene

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
Ethyne, Acetylen, Ethine

EHS* ☐ Yes ☑ No 208

CAS# 209
74-86-2

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☑ c. GAS 214

LARGEST CONTAINER 145 CU Ft 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☑ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
1 pound			Yearly

UNITS* (Check one item only) ☐ a. GALLONS ☑ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☑ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER 223

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 0 FLAMMABILITY 4 REACTIVITY 0 SPECIAL HAZARD 0 246

HAZARD CLASS OR DIVISION #_____ UN#_____
If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor California

CHEMICAL LOCATION 201 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☑ NO

FACILITY ID # 86088 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Oxygen | TRADE SECRET 206 ☐ Yes ☑ No (If Subject to EPCRA, refer to instructions)

COMMON NAME 207: Oxygen | EHS* 208 ☐ Yes ☑ No

CAS# 209: 7782-44-7 | *If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☑ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☑ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☑ c. GAS 214 | LARGEST CONTAINER 122 CU FT 215

FED HAZARD CATEGORIES (Check all that apply) 216 ☑ a. FIRE ☐ b. REACTIVE ☑ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
1 pound			

UNITS* (Check one item only) 221 ☐ a. GALLONS ☑ b. CUBIC FEET ☑ c. POUNDS ☐ d. TONS * If EHS, amount must be in pounds. | DAYS ON SITE: 222 yearly

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☑ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER

STORAGE PRESSURE 224 ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225 ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 0 FLAMMABILITY 1 REACTIVITY 0 SPECIAL HAZARD 246

HAZARD CLASS OR DIVISION #_____ UN#_____

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 | Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor Cal Formica

CHEMICAL LOCATION 201 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☒ NO

FACILITY ID # 860888 1 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Elmers Fill'N Finish wood Filler-Blond

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207

EHS* ☐ Yes ☒ No 208

CAS# 209
546-93-0

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215
55 Gallon Drum

FED HAZARD CATEGORIES (Check all that apply) 216
☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
2 to 4 Gallons			

UNITS* (Check one item only) 221 ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
Yearly

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☒ c. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0 SPECIAL HAZARD ___ 246

HAZARD CLASS OR DIVISION #_____ UN#_____
If EPCRA, Please Sign Here

OES Form 2731

Revised (5/03)

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor California

CHEMICAL LOCATION 201 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☑ NO

FACILITY ID # 8 6 0 8 8 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
AHB Clear Thin Spread Adhesive

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
Thin Spread

EHS* 208 ☐ Yes ☑ No

CAS# 209
None

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☑ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215
5 Gallon Bucket

FED HAZARD CATEGORIES (Check all that apply) 216 ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
2 5 Gallon Buckets			

UNITS* (Check one item only) 221 ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
Yearly

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☑ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☑ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE 224 ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225 ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0 SPECIAL HAZARD ___ 246

HAZARD CLASS OR DIVISION #_____ UN#_____
If EPCRA, Please Sign Here

OES Form 2731

Revised (5/03)

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS
HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☒ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) -3
Thor California

CHEMICAL LOCATION 201
T

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☒ NO

FACILITY ID # 860888

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Super Bond T1-50

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207

EHS* ☐ Yes ☒ No 208

CAS# 209
Mixture 110-54-3

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 17 pound cylinder 215

FED HAZARD CATEGORIES (Check all that apply) 216
☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
6 pounds			

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: Yearly 222

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☒ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	226	227	☐ Yes ☐ No 228	229
2	230	231	☐ Yes ☐ No 232	233
3	234	235	☐ Yes ☐ No 236	237
4	238	239	☐ Yes ☐ No 240	241
5	242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0 SPECIAL HAZARD ___ 246

HAZARD CLASS OR DIVISION #_____ UN#_____

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor California

CHEMICAL LOCATION 201 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☑ NO

FACILITY ID # 8 6 0 8 8 1 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
TE-040 Thermoset Adhesive

TRADE SECRET ☑ Yes ☐ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
Jet-Weld

EHS* ☐ Yes ☐ No 208

CAS# 209
101-68-8

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☑ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 5 Gallons 215

FED HAZARD CATEGORIES (Check all that apply) ☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220

UNITS* (Check one item only) ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: Yearly 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☑ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☑ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 2 FLAMMABILITY 1 REACTIVITY 1 SPECIAL HAZARD ( ) 246

HAZARD CLASS OR DIVISION #_____ UN#_____
If EPCRA, Please Sign Here

Revised (5/03)

OES Form 2731

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor Cal Florida

CHEMICAL LOCATION 201 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☑ NO

FACILITY ID # 8 6 0 8 8 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Marine Adhesive Sealant Fast Cure 4200

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207

EHS* ☐ Yes ☑ No 208

CAS# 209
68130-40-5 9002-86-2 7075-94-9

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☑ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
Tubes			Yearly

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
Yearly

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☑ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☐ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 2 FLAMMABILITY 2 REACTIVITY 0 SPECIAL HAZARD 0 246

HAZARD CLASS OR DIVISION #_____ UN#_____

If EPCRA, Please Sign Here

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☑ ADD ☐ DELETE ☐ REVISE 200 | Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
Thor California

CHEMICAL LOCATION 201 | CHEMICAL LOCATION CONFIDENTIAL EPCRA 202 ☐ YES ☑ NO

FACILITY ID # 8 6 0 8 8 1 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Pro-Stik All Temp Latex Adhesive

TRADE SECRET ☐ Yes ☑ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
Caulk . Silicone Clear

EHS* ☐ Yes ☑ No 208

CAS# 209
67-63-0 107-21-1

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
2

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☑ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☑ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☑ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215
29oz Tubes

FED HAZARD CATEGORIES (Check all that apply) 216
☑ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
10 TO 12 Tubes			

UNITS* (Check one item only) 221 ☑ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
Yearly

STORAGE CONTAINER ☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☑ o. OTHER ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR 223

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD INDENTIFICATION: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0 SPECIAL HAZARD ___ 246

HAZARD CLASS OR DIVISION #_____ UN#_____

If EPCRA, Please Sign Here

RELEASED

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION
BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID #	1	EPA ID # (Hazardous Waste Only)	2
		CAL000260427	

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3

THORCALIFORNIA, INC DBA THOR MANUFACTURING

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page (OES Form 2730).

Does your facility...	If Yes, please complete these pages of the UPCF....	
A. HAZARDOUS MATERIALS		
Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES ☐ NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (OES 2731)
B. UNDERGROUND STORAGE TANKS (USTs)		
1. Own or operate underground storage tanks?	☐ YES ☒ NO 5	UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)
2. Intend to upgrade existing or install new USTs?	☐ YES ☒ NO 6	UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
3. Need to report closing a UST?	☐ YES ☒ NO 7	UST TANK (closure portion –one page per tank)
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)		
Own or operate ASTs above these thresholds: ---any tank capacity is greater than 660 gallons, or ---the total capacity for the facility is greater than 1,320 gallons?	☐ YES ☒ NO 8	NO FORM REQUIRED TO CUPA's
D. HAZARDOUS WASTE		
1. Generate hazardous waste?	☒ YES ☐ NO 9	EPA ID NUMBER – provide at the top of this page. Complete the Hazardous Waste Generator, County of Riverside form.
2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	☐ YES ☒ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
3. Treat hazardous waste on site?	☐ YES ☒ NO 11	ONSITE HAZARDOUS WASTE TREATMENT – FACILITY (Formerly DTSC Forms 1772) ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) (Formerly DTSC Forms 1772 A, B, C, D and L)
4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE (Formerly DTSC Form 1232)
5. Consolidate hazardous waste generated at a remote site?	☐ YES ☒ NO 13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION (Formerly DTSC Form 1196)
6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?	☐ YES ☒ NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION (Formerly DTSC Form 1249)

E. LOCAL REQUIREMENTS 15

Note: If you have answered "NO" to **question A** listed above, complete and submit the Statement of Exemption page.

EAC 86088

11/27/02 BK
Level I

UNIFIED PROGRAM CONSOLIDATED FORM

GENERATOR INFORMATION

HAZARDOUS WASTE GENERATOR, COUNTY OF RIVERSIDE

Page ___ of ___

I. FACILITY INFORMATION

See instructions on reverse side

BUSINESS NAME	FACILITY ID #	NUMBER OF EMPLOYEES
THORCALIFORNIA		80

BUSINESS SITE ADDRESS (if more than one location)

14050 DAY STREET, MORENO VALLEY CA 92553

II. HAZARDOUS WASTE GENERATED

a. List the hazardous waste codes and the amount generated per month, or go to "b" below.

Waste Code	Amount per Month	Waste Code	Amount per Month	Waste Code	Amount per Month

Wipes ?

b. Check the type of hazardous waste and list the amount generated per month.	YES	AMT/MONTH
1. **Used oils**: Lubrication oils, motor oils, hydraulic oils, transmission oils, oil/water mixtures, and cutting oils.	X	10½ gallons
2. **Solvents and/or Sludges**: Parts cleaner, dry cleaning fluids and filters, perchlorethylene, methyl chloride, acetone, trichlorethylene, styrene, xylene, and methylethylketone.	---	wipes
3. **Photo Processing Wastes**: Developer, fixer, hyposolution, and silver solutions including waste from a silver recovery unit.	----	
4. **Asbestos**. Insulation products, old pipe laggings, asbestos pipes, brake pads.	---	
5. **Ashes**: All ashes including oil ashes, kiln and oven ashes.	---	
6. **Acid Solutions and Solids**: pH less than or equal to 2, batteries, metal plating solutions and cleaning waste.	---	
7. **Alkaline Solutions and Solids**: pH greater than or equal to 12.5, metal plating and cleaning solutions, soda ash, sodium and calcium hydroxide.	---	
8. **Pesticide**: Unusable portions of active pesticides, unrinsed empty containers, rinse water.	---	
9. **Paint/Ink Waste**: Paints, paint thinners, paint removers, and printing inks.	---	
10. **Polychlorinated Biphenyls**. PCB contaminated electronic capacitors, ballasts, transformer fluids	---	
11. **Monomer/Polymeric Resin**: Unreacted resin, resin rinse water.	---	
12. **Miscellaneous**: Antifreeze, anti-corrosion fluids, heavy metals in solid or soluion, drilling mud, and mine tailings	---	
13. Other hazardous waste generated at your business: _____	---	

11/27/02 SK
Mitigation measures are not adequate. Level I

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION
BUSINESS OWNER/OPERATOR IDENTIFICATION

Page ___ of ___

I. IDENTIFICATION

FACILITY ID#	1	BEGINNING DATE 100	ENDING DATE 101

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3	BUSINESS PHONE 102
THORCALIFORNIA, INC. DBA THOR MANUFACTURING	909 697-4190

BUSINESS SITE ADDRESS 103
14050 DAY STREET

CITY 104		ZIP CODE 105
MORENO VALLEY	CA	92553

DUN & BRADSTREET 106	SIC CODE (4 digit #) 107
N/A	3792

COUNTY 108
RIVERSIDE

BUSINESS OPERATOR NAME 109	BUSINESS OPERATOR PHONE 110
THOMAS J. POWELL	909 697-4190

II. BUSINESS OWNER

OWNER NAME 111	OWNER PHONE 112
THOR INDUSTRIES, INC.	513 596-6849

OWNER MAILING ADDRESS 113
419 W. PIKE STREET

CITY 114	STATE 115	ZIP CODE 116
JACKSON CENTER	OH	45334

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117	CONTACT PHONE 118
JOHN SANGA	909 697-4190 x295

CONTACT MAILING ADDRESS 119
14255 ELSWORTH STREET

CITY 120	STATE 121	ZIP CODE 122
MORENO VALLEY	CA	92553

IV. EMERGENCY CONTACTS

-PRIMARY-	-SECONDARY-
NAME 123: JOHN SANGA	NAME 128: BOB EGGERING
TITLE 124: SAFETY & SECURITY MANAGER	TITLE 129: CONTROLLER
BUSINESS PHONE 125: 909 697-4190 x295	BUSINESS PHONE 130: 909 697-4190 x223
24 HOUR PHONE 126: [redacted]	24 HOUR PHONE 131: [redacted]
PAGER # 127: CELL PHONE 909 233-7616	PAGER # 132:

ADDITIONAL LOCALLY COLLECTED INFORMATION: 133

those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am d and believe the information is true, accurate, and complete.

OR DESIGNATED REPRESENTATIVE	DATE 134	NAME OF DOCUMENT PREPARER 135
[redacted]	9/26/2002	
136	TITLE OF SIGNER 137	
	PRESIDENT	

HAZARDOUS MATERIALS BUSINESS EMERGENCY PLAN
EMERGENCY PROCEDURES

Emergency response plans and procedures are an integral part of the HMBEP. By taking the time to develop plans and procedures for your business, you will avoid complications resulting from inaction or misguided action during an emergency. Once the plans and procedures are developed, your employees will have an informative guide to follow in the event of an emergency. You must address each of the following items, however, the amount of detail you provide will depend upon the size and nature of the business, the damage potential of the hazardous materials handled and the location of the business with respect to residential or other populated areas.

1. EMERGENCY RESPONSE PLANS AND PROCEDURES

A. **If you have a release or threatened release of hazardous materials, your business is required by state law to provide immediate notification to the following agencies:**

Immediately call:

Local emergency response personnel (Fire, paramedics, police or sheriff)	911
State Office of Emergency Services	(800) 852-7550 or (916) 262-1621

Immediately call the appropriate jurisdiction:

The County of Riverside Hazardous Materials Management Division:	(909) 358-5055
CDF/Banning Fire Service	(909) 922-3210
City of Corona Fire Department	(909) 736-2220
City of Riverside Fire Department	(909) 826-5321

Person(s) within the facility required to respond to a hazardous materials incident:

Name: JOHN SANGA Telephone: (909)233-7616

Name: ROBERT GUTIERREZ Telephone: (909)534-8718

B. Identify the local emergency medical facility that will be used by your business in the event of an injury caused by the release of a hazardous material:

Name: RIVERISDE COUNTY REGIONAL MEDICAL CENTER

Address: 26520 CACTUS AVENUE

City: MORENO VALLEY, CA 92555

Phone: (909)484-4000

2. PREVENTION

Describe the kinds of hazards associated with the materials present at your business. Provide information on the steps taken at your business, or the policies or procedures now in place, to **help prevent** an accidental release of a hazardous material. Issues for discussion may include safety, storage, and containment procedures. Be specific for each type of hazardous materials at your business.

LP6 TANK PROTECTED BY 6" CRASH POLES. ALSO HAS AN EMERGENCY SHUT-OFF SWITCH. FIRE EXTINGUISHER ADJACENT. LOCATION OF THE TANK IS 165' FROM BUILDINGS. NOTHING IS STORED AROUND THE TANK.

3. MITIGATION

Describe the procedures to be followed to **reduce the severity** of a release of threatened release of a hazardous material at your business. The procedures should detail the actions to be taken by employees to stop a release, contain a release, or to reduce the problems associated with a release. What is your immediate response to a spill, fire, explosion of airborne release at your business? Do not write procedures that exceed the capabilities of employee or equipment at you business or that violate any workers safety laws.

EMPLOYEES ARE NOT TO ATTEMPT TO CORRECT LEAK OR FIRE. IN CASE OF LEAK VENDOR IS TO BE CALLED. IN THE EVENT OF FIRE, THE FIRE DEPT. IS TO BE CALLED.

4. ABATEMENT

Describe what you would do to **stop** and **remove** each hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your business? What aspects of the response are beyond your ability and need to be handled by others? Who would you call to handle the release?

SAME AS ABOVE: PRO FLAME (909) 825-2605
FIRE DEPT. (909) 242-3101 -OR- 911

5. EVACUATION

Describe the procedures to be followed for immediate notification and evacuation of your facility:

IF EVACUATION OF THE PLANT IS DEEMED NECESSARY, EMPLOYEES WILL BE DIRECTED BY PUBLIC ADDRESS SYSTEM TO EXIT FACILITY. DEPTARTMENT SUPERVISORS AND OTHER DESIGNATED PERSONNEL WILL CHECK THE BUILDING TO ENSURE EVACUATION IS COMPLETE.

6. EARTHQUAKES

Identify the areas and equipment in your business, which would require **immediate inspection or isolation** due to their vulnerability to earthquake related ground motion. Check for equipment such as gas cylinders, piping, drums, etc., that may need to be secured or spillage that may require mitigation or abatement.

NATURAL GAS LINES.

7. HAZARDOUS WASTE CONTINGENCY

Specific procedures for prevention, mitigation and abatement of a release of **hazardous waste** generated at your business. This section only applies to hazardous waste generators.

N/A

8. UNAUTHORIZED RELEASE RESPONSE PLAN

Specific procedures for mitigation, abatement and reporting of an unauthorized release from an **underground storage tank (UST)**. The plan must address a release from a single wall or a double wall tank system as applicable. This plan should cover the entire UST system. This section only applies to UST owner/operators.

N/A

Employee Training Plan

Businesses that handle hazardous materials are required to have a program which provides employees with initial and refresher training. The HMBEP shall include a training program which is reasonable and appropriate for the size of the business and the nature of the hazardous materials handled. The training program shall take into consideration the responsibilities of the employees to be trained. The training program shall, at a minimum, include:

A. Methods for safe handling of hazardous materials stored at your business, including familiarity with the characteristics and hazards of each material and measures employees can take to protect themselves from chemical hazards;
B. Procedures for coordination with local emergency response organizations;
C. Proper use of personal protective equipment;
D. The prevention, abatement and mitigation procedures you have developed for your business and explained in the HMBEP, including proper use of emergency equipment and supplies;
E. The emergency evacuation plans you have developed, the notification procedure used to alert people to evacuate, and the closest location to obtain appropriate emergency medical care;
F. Procedures to coordinate with and assist the local emergency personnel that may respond to your business;
G. Who and how to call for immediate assistance in the event of an accident involving hazardous materials;
H. Procedures for ensuring that appropriate personnel receive initial and refresher training.

All employee training shall be documented and updated annually

1. Personnel
   A. Are there any specially trained hazardous materials emergency response personnel at your business?
      Yes ____ No XX Number Trained _____

   B. Do you have decontamination capabilities for victims of exposure to hazardous materials at your business? Yes ____ No XX Type of Decon _____

   C. Do you have personnel that will provide site security at your business during and after a hazardous materials incident? Yes XX No _____

2. Equipment
   A. List the type and location of equipment that can or will be used for response to hazardous materials incidents at your facility.

      FIRE EXTINGUISHERS AND SPRINKLER SYSTEM INSTALLED THROUGHOUT THE FACILTY.

POST FOR EMPLOYEES

HAZARDOUS MATERIALS BUSINESS EMERGENCY PLAN: EMERGENCY NOTIFICATION

During an emergency involving a release or a threatened release of a hazardous material you must notify appropriate agencies. Information you should be prepared to supply includes:

1. Name and telephone number of the reporting party;
2. Name and address of business;
3. Time and type of release (e.g., damaged containers, malfunctioning equipment, etc.);
4. Name and quantity of material(s) involved;
5. Extent and number of injuries;
6. Actions taken or being taken to mitigate or reduce emergency;
7. Potential hazards to human health or the environment surrounding the business.

AGENCY NOTIFICATION:

Fire Department	911
Ambulance/Paramedic	911
Police/Sheriff	911
Hospital RIVERSIDE CTY REG'L MEDICAL CTR	Phone # 909 486-4000
Primary Facility Emergency Contact Person Name US HEALTH WORKS	Phone # 909 653-5291
Hazardous Materials Management Division	(909) 358-5055
CDF/Banning Fire Service	(909) 922-3210
City of Corona Fire Department	(909) 736-2220
City of Riverside Fire Department	(909) 826-5321
California Office of Emergency Services	(800) 852-7550
National Response Center	(800) 424-8802
Poison Control Center	( ) _____
Hazardous Materials Cleanup Contractor IDR Environmental Services, Inc.	( ) _____ 626 334-7970

Name of Contractor (if applicable) _____

Other Contacts _____

_____

_____

Certified Unified Program Agency
County of Riverside Community Health Agency
Department of Environmental Health
Hazardous Materials Management Division

SUPPLEMENTAL REPORT

Reference Date 01/15/08

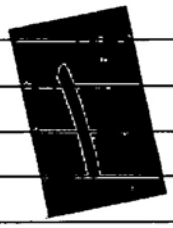
Name Thor California (Manufacturing)

Address 14050 Day St., Moreno Valley, CA

Re: Out of Business Field Verification Continuation Facility # 86088

Remarks: Follow-up to original field verification conducted 11/28/07.

Met personnel onsite and confirmed all hazardous material has been removed from the facility. No documentation was available at time of verification. Will confirm documentation of transporting material or waste at time of inspection for Thor facility at 14255 Elsworth St, Moreno Valley, CA 92553.



Specialist Nicholas Crain

Received By

PRO-FLAME

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

HD-5 PROPANE FUEL (ODORIZED)

PRODUCT NUMBER(S): CPS262200 CPS262442 WPS-300

COMPANY IDENTIFICATION

ProFlame, Inc.
P.O. Box 5069
Novato, California 94948

EMERGENCY TELEPHONE NUMBERS

Transportation (24 hr):
CHEMTREC (800)424-9300 or (202)483-7616
Health (24 hr):
(800)231-0623 or (510)231-0623 (International)

PRODUCT INFORMATION: (415) 883-8717

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.00% HD-5 PROPANE FUEL (ODORIZED)

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
PROPANE Chemical Name: PROPANE CAS74986	>90.0%	Asphyxiant 1800 mg/m3	ACGIH TWA OSHA PEL
ETHANE Chemical Name: ETHANE CAS74840	<10.0%	Asphyxiant	ACGIH TWA
PROPYLENE Chemical Name: 1-PROPENE CAS115071	<5.0%	Asphyxiant	ACGIH TWA
HYDROCARBONS, C4 and up Chemical Name: HYDROCARBONS, C4 and up CAS68476448	<2.5%	None	N/A
ETHYL MERCAPTAN Chemical Name: ETHYL MERCAPTAN CAS75081		0.5 ppm 25 mg/m^3	ACGIH TWA OSHA PEL
RADON Chemical Name: RADON CAS14859677		None	N/A

COMPOSITION COMMENT:
All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory. This material is classified as a simple asphyxiant. When working with this material, the minimal oxygen content should be 18 percent by volume under normal atmospheric pressure.

TLV	- Threshold Limit Value	TWA	- Time Weighted Average
STEL	- Short-term Exposure Limit	TPQ	- Threshold Planning Quantity
RQ	- Reportable Quantity	PEL	- Permissible Exposure Limit
C	- Ceiling Limit	CAS	- Chemical Abstract Service Number
A1-5	- Appendix A Categories	( )	- Change Has Been Proposed

3. HAZARDS IDENTIFICATION

**********EMERGENCY OVERVIEW**********

Colorless gas or liquid with distinct odor of commercial natural gas.

-EXTREMELY FLAMMABLE
-LIQUID CAN CAUSE EYE AND SKIN INJURY
-MAY EXCLUDE OXYGEN AVAILABLE FOR BREATHING
-DETECTION OF LEAK VIA SENSE OF SMELL MAY NOT BE POSSIBLE IF ODORANT HAS DEGRADED
-CONTENTS UNDER PRESSURE

****

POTENTIAL HEALTH EFFECTS

EYE:
The gas phase is not expected to cause eye irritation. However, the liquid can cause frostbite and burns. This hazard evaluation is based on the data from similar materials.

SKIN:
The gas is not irritating to the skin. However, skin contact with liquid or solid can cause severe frostbite or burns. The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. This hazard evaluation is based on data from similar materials.

INGESTION:
Material is a gas and cannot usually be swallowed.

INHALATION:
This material can act as a simple asphyxiant by displacement of air. This hazard evaluation is based on data from similar materials.

SIGNS AND SYMPTOMS OF EXPOSURE:
INHALATION: Signs and symptoms of the resultant central nervous system effects may include rapid breathing, incoordination, rapid fatigue, excessive salivation, disorientation, headache, nausea, and vomiting. Convulsions, loss of consciousness, coma and/or death may occur if exposure to high concentration continues.

4. FIRST AID MEASURES

EYE:
Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. See a doctor for further treatment as soon as possible.

SKIN:
Skin contact with the liquid may result in frostbite and burns. Soak contact area in tepid water to alleviate the immediate effects and get medical attention.

INGESTION:
Not expected to be an ingestion problem, no first aid procedures are required.

INHALATION:
If any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT: GAS (NFPA)
AUTOIGNITION: 450C (842F)
FLAMMABILITY LIMITS (% by volume in air): Lower: 2.1 Upper: 9.5
EXTINGUISHING MEDIA:
Stop flow of gas. CO_2 for small fires. Water fog.

NFPA RATINGS: Health 1; Flammability 4; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:
This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Petroleum gases are heavier than air and travel along the ground or into drains to possible distant ignition sources, causing an explosive flashback.

COMBUSTION PRODUCTS:
Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24-HOUR): (300)424-9300 OR (209)483-7616

ACCIDENTAL RELEASE MEASURES:
Eliminate all sources of ignition in vicinity of spill or released vapor.

If this material is released into a work area, evacuate the area immediately. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal

activities must comply with all instructions in the Exposure Controls/Personal Protection section. Allow to dissipate with adequate ventilation.

7. HANDLING AND STORAGE

HANDLING AND STORAGE:
DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Before entry into confined spaces that may have contained hazardous material, determine concentrations and take appropriate measures for personal protection. Material presents a hazard that may require personal protective equipment for entry. CONTAINER UNDER PRESSURE. Store away from strong oxidizing materials.

This product has been odorized in order to aid in its detection in case of a leak or accidental discharge. During shipping or storage of an odorized material, alteration of the odorant and subsequent reduction in its effectiveness may occur.

Odorants are reactive. Rust and scale in storage containers and pipes may significantly reduce an odorant's effectiveness. For this reason, storage containers must be free of rust and scale. Whenever an empty cylinder is filled, it must be properly purged and conditioned to remove air and water and to deactivate sites for oxidation of the odorant. Underground pipelines should also be checked periodically for leaks.

Prolonged exposure to an odorant or other strong smells in the environment may reduce an individual's ability to detect the odorant. People with an impaired ability to detect odors due to colds, allergies, smoking, injuries, etc., must be especially cautious.

Special precautions should be taken when entering or handling equipment in this type of gas service because of possible radioactive contamination. All equipment should be checked for radioactivity or opened to the atmosphere and have forced ventilation applied or at least four hours prior to entry or handling. Avoid direct skin contact with any surface. Avoid generation of dust, smoke, fumes, etc. in the work area, or if they cannot be avoided, a tested and certified radionuclide dust respirator should be worn. Smoking, eating, or drinking, should be prohibited when working with the equipment. Employees should wash thoroughly with soap and water and discard contaminated clothing after entering or handling the equipment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:
Appropriate eye protection must be worn when working with this material or serious harm can result. Wear chemical goggles or a face shield at all times.

SKIN PROTECTION:
Do not get on skin or on clothing. Wear protective clothing including gloves when handling.

RESPIRATORY PROTECTION:
No special respiratory protection in normally required.

ENGINEERING CONTROLS:
Use this material only in well ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:
Colorless gas or liquid with distinct odor of commercial natural gas.

pH:	NDA
VAPOR PRESSURE:	208 PSI @ 37.8C (Max.).
VAPOR DENSITY (AIR=1):	1.6
BOILING POINT:	-44F (-42C)
FREEZING POINT:	NDA
MELTING POINT:	NA
SOLUBILITY:	Soluble in alcohol, ether and hydrocarbons; insoluble in water.
SPECIFIC GRAVITY:	0.5 @ 15.6/15.6C.
DENSITY:	NDA
EVAPORATION RATE:	NDA
PERCENT VOLATILE (VOL):	100%

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:
NDA
CHEMICAL STABILITY:
Stable.
CONDITIONS TO AVOID:
No data available
INCOMPATIBILITY WITH OTHER MATERIALS:
May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
HAZARDOUS POLYMERIZATION:
Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
SKIN EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
ACUTE ORAL EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
ACUTE INHALATION EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
ADDITIONAL TOXICOLOGY INFORMATION:
This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.

This product contains isobutane. Isobutane has been shown to increase airway resistance by bronchioconstriction and decrease pulmonary compliance and tidal volume (difficulty in breathing).

Air containing 27% isobutane was found to decrease respiratory rate and proved to be fatal to rats.

This product may contain detectable but varying quantities of the naturally occurring radioactive substance radon 222. The amount in the gas itself is not hazardous, but since radon rapidly decays (t1/2=3.82 days) to form other radioactive elements including lead 210, polonium 210, and bismuth 210, equipment may be radioactive. The radon daughters are solids and therefore may attach to dust particles or form films and sludges in equipment. Inhalation, ingestion or skin contact with radon daughters can lead to the deposition of radioactive material in the lungs, bone, blood forming organs, intestinal tract, kidney, and colon. Occupational exposure to radon and radon daughters has been associated with an increased risk of lung cancer in underground uranium miners. Follow the special Precautions contained in this document.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:
No data available.
ENVIRONMENTAL FATE:
No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:
This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by USEPA under RCRA (40CFR261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME:	LIQUIFIED PETROLEUM GAS
DOT HAZARD CLASS:	2.1 (FLAMMABLE GAS)
DOT IDENTIFICATION NUMBER:	UN1075

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:	1.	Immediate (Acute) Health Effects:	YES
	2.	Delayed (Chronic) Health Effects:	NO
	3.	Fire Hazards:	YES
	4.	Sudden Release of Pressure Hazard:	YES
	5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01 =	SARA 313	11 =	NJ RTK	22 =	TSCA Sect 5 (a)(2)
02 =	MASS RTK	12 =	CERCLA 302.4	23 =	TSCA Sect 6
03 =	NTP Carcinogen	13 =	MN RTK	24 =	TSCA Sect 12 (b)
04 =	CA Prop 65 Carcin	14 =	ACGIH TWA	25 =	TSCA Sect 8 (a)

05 =	CA Prop 65-Repro Tox	15 =	ACGIH STEL	26 =	TSCA Sect 8 (d)
06 =	IARC Group 1	16 =	ACGIH-Calc TLV	27 =	TSCA Sect 4 (a)
07 =	IARC Group 2A	17 =	OSHA PEL	28 =	Canadian WHMIS
08 =	IARC Group 2B	18 =	DOT Marine Pollutant	29 =	OSHA CEILING
09 =	SARA 302/304	19 =	Chevron TWA	30 =	Chevron STEL
10 =	PA RTK	20 =	EPA Carcinogen		

The following components of this material are found on the regulatory lists indicated.

1-PROPENE
is found on lists: 01, 02, 10, 11, 13, 14

RADON
is found on lists: 06

ETHANE
is found on lists: 02, 10, 11, 13, 14

PROPANE
is found on lists: 02, 10, 11, 13, 14, 17

ETHYL MERCAPTAN
is found on lists: 02, 10, 11, 13, 14, 17, 28

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 4; Reactivity 0;

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:

07/23/94: This revision updates Section 1 (CHEMICAL PRODUCT AND COMPANY IDENTIFICATION) and Section 5 (FIRE RIGHTING MEASURES).

01/19/96: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
ThorCalifornia

C [redacted] 201

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☒ NO

FACILITY ID # 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
No. 2 Diesel

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
Diesel

EHS* ☐ Yes ☒ No 208

CAS# 209
68476-30-2

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215
55 Gallon Drum

FED HAZARD CATEGORIES (Check all that apply) 216
☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
165	165	30 Gallons	

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
365

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☒ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD IDENTIFICATION: HEALTH ___ FLAMMABILITY ___ REACTIVITY ___ SPECIAL HAZARD ___ 246

UN # _____ HAZARD CLASS OR DIVISION #_____

If EPCRA, Please Sign Here

[redacted]

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: No. 2 Diesel Fuel
Product Code: Multiple
Synonyms: CARB Diesel TF3
CARB Diesel
CARB Diesel 10%
Diesel Fuel Oil
EPA Low Sulfur Diesel Fuel
EPA Low Sulfur Diesel Fuel - Dyed
EPA Off Road High Sulfur Diesel - Dyed
Fuel Oil No. 2 - CAS # 68476-30-2
No. 2 Diesel Fuel Oil
No. 2 Fuel Oil - Non Hiway - Dyed
No. 2 High Sulfur Diesel - Dyed
No. 2 Low Sulfur Diesel - Dyed
No. 2 Low Sulfur Diesel - Undyed

Responsible Party: Tosco Corporation
1700 East Putnam Avenue
Old Greenwich, CT 06870

Help Desk 8am - 4pm Pacific Time, Mon-Fri: 1-800-762-0942

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident
Call CHEMTREC
North America: (800)424-9300
Others: (703)527-3887 (collect)

California Poison Control
System: (800)356-3129

Health Hazards: Causes severe skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

▶ Physical Form: Liquid

- Appearance: Straw-colored to dyed red
- Odor: Characteristic petroleum

NFPA HAZARD CLASS: Health: 0 (Least)
Flammability: 2 (Moderate)
Reactivity: 0 (Least)

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% Volume	EXPOSURE GUIDELINE		
		Limits	Agency	Type
Diesel Fuel No. 2 CAS# 68476-34-6	100	100* mg/m3	ACGIH	TWA-SKIN
Naphthalene CAS# 91-20-3	<1	10 ppm	ACGIH	TWA
		15 ppm	ACGIH	STEL
		10 ppm	OSHA	TWA
		250 ppm	NIOSH IDLH	

Tosco Low Sulfur No. 2 Diesel meets the specifications of 40 CFR 60.41 for low sulfur diesel fuel.

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

*Proposed ACGIH (1999)

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Severe skin irritant. Contact may cause redness, itching, burning, and severe skin damage. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Not acutely toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by

inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausea, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: Possible skin cancer hazard (see Sections 11 and 14).

Target Organs: There is limited evidence from animal studies that overexposure may cause injury to the kidney (see Section 11).

Developmental: Inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders and kidney disorders.

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Immediately remove contaminated shoes, clothing, and constrictive jewelry and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or

an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Flash Point: >125°F / >52°C
Flammable/Explosive Limits (%): LEL: 0.3 / UEL: 10.0
Autoignition Temperature: 500°F / 260°C
Appearance: Straw-colored to dyed red
Physical State: Liquid
Odor: Characteristic petroleum
pH: Not applicable
Vapor Pressure (mm Hg): 0.40
Vapor Density (air=1): >3

Boiling Point/Range: 320-700°F / 160-371°C
Freezing/Melting Point: No Data
Solubility in Water: Negligible
Specific Gravity: 0.81-0.88 @60°F
Percent Volatile: Negligible
Evaporation Rate (nBuAc=1): <1
Viscosity: 32.6-40.0 SUS @100°F
Bulk Density: 7.08 lbs/gal

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of storage and handling. Flammable liquid and vapor. Vapor can cause flash fire.

Conditions To Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Incompatible Materials: Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Hazardous Decomposition Products: The use of hydrocarbon fuels in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. ACGIH has included a TLV of 0.05 mg/m3 TWA for diesel exhaust particulate on its 1999 Notice of Intended Changes. See Section 11 for additional information on hazards of engine exhaust.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Diesel Fuel No. 2 (CAS# 68476-34-6)

Carcinogenicity: Chronic dermal application of certain middle distillate streams contained in diesel fuel No. 2 resulted in an increased incidence of skin tumors in mice. This material has not been identified as a carcinogen by NTP, IARC, or OSHA. Diesel exhaust is a probable cancer hazard based on tests with laboratory animals.

Target Organ(s): Limited evidence of renal impairment has been noted from a few case reports involving excessive exposure to

diesel fuel No. 2.

Naphthalene (CAS# 91-20-3)

Carcinogenicity: Female mice exposed via inhalation to naphthalene developed alveolar adenomas. This effect was not seen in male mice. It has not been identified as a carcinogen by NTP, IARC or OSHA.

12. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

13. TRANSPORT INFORMATION

DOT Proper Shipping Name / Technical Name: Diesel Fuel
Hazard Class or Division: 3
ID #: NA1993
Packing Group: III

14. REGULATORY INFORMATION

This material contains the following chemicals subject to the reporting requirements of **SARA** 313 and 40 CFR 372:

COMPONENT	CAS NUMBER	WEIGHT %
-- None known --		

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of **California Proposition 65** (CA Health & Safety Code Section 25249.5):

COMPONENT	EFFECT
Benzene	Cancer, Developmental and Reproductive Toxicant
Toluene	Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any. Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as a carcinogen by IARC.

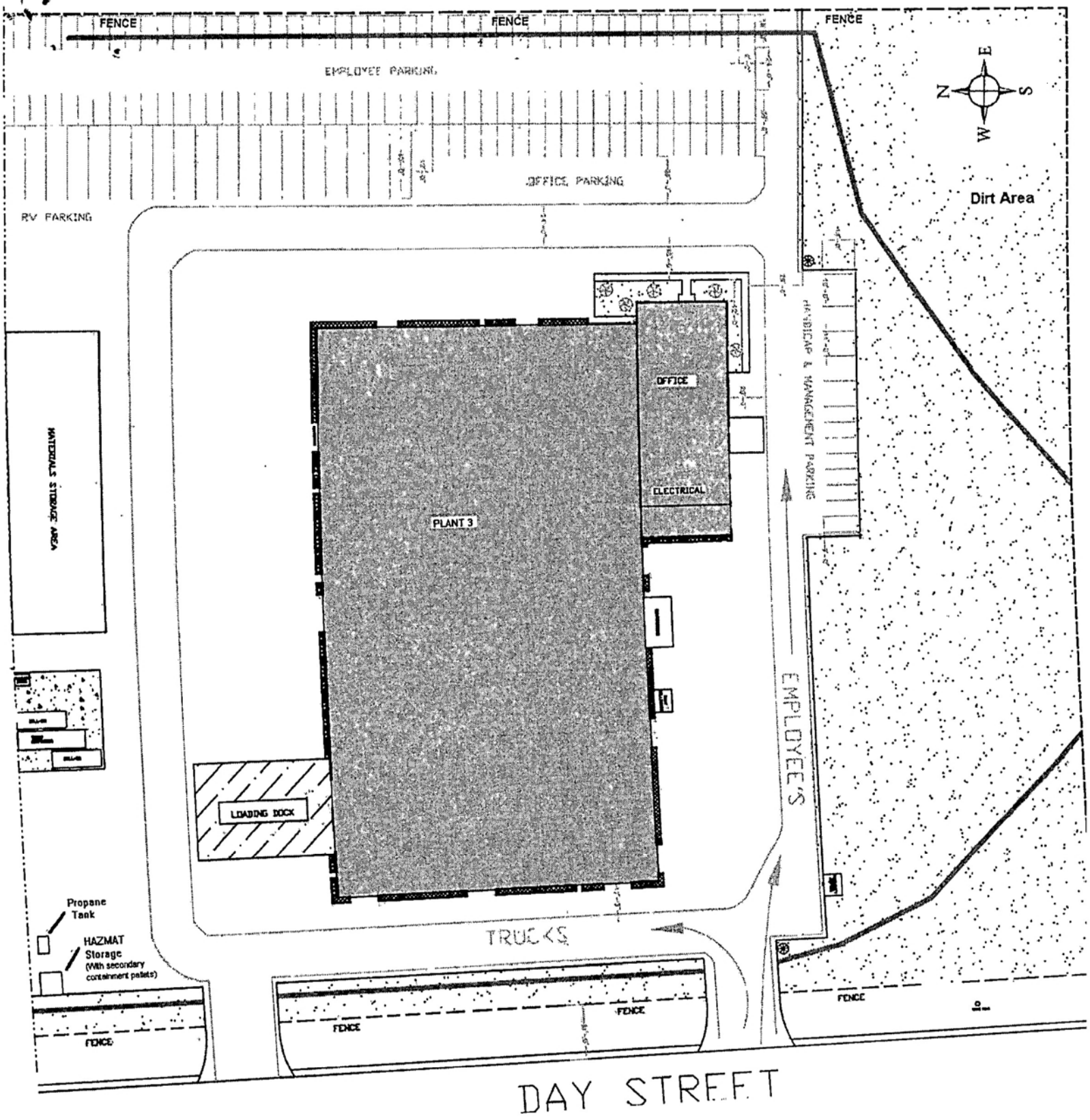
EPA (CERCLA) Reportable Quantity: --None--

15. DOCUMENTARY INFORMATION

Issue Date: 07/10/00
Previous Issue Date: 04/03/00
Product Code: Multiple
Previous Product Code: Multiple

16. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. **HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.** No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product



Scale

1" = 100'

DIAGRAM LEGEND

- -General Building
- -Open Structure
- -Dirt
- -Overhead Door
- -Concrete Block Wall
- -Material Storage Racks
- -Chain Link Fence
- -Roll-Off Dumpster
- -Water Faucet/Hose

THORCALIFORNIA
14050 Day Street
Moreno Valley, CA. 92553

inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausea, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: Possible skin cancer hazard (see Sections 11 and 14).

Target Organs: There is limited evidence from animal studies that overexposure may cause injury to the kidney (see Section 11).

Developmental: Inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders and kidney disorders.

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Immediately remove contaminated shoes, clothing, and constrictive jewelry and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or

unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flash Point: >125°F/>52°C
OSHA Flammability Class: Combustible liquid
LEL%: 0.3 / UEL%: 10.0
Autoignition Temperature: 500°F/260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1 and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
THORCALIFORNIA

CHEMICAL LOCATION 201 [redacted]

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☒ NO

FACILITY ID # 1 MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
LIQUIFIED PETROLEUM GAS

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
PROPANE

EHS* ☐ Yes ☒ No 208

CAS# 209
74-98-6

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 425 lbs 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
425	425	N/A	N/A

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
365

STORAGE CONTAINER ☒ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 100% 226	PROPANE 227	☐ Yes ☒ No 228	74-98-6 229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD IDENTIFICATION: HEALTH ___ FLAMMABILITY XX REACTIVITY ___ SPECIAL HAZARD ___ 246

UN # _____ HAZARD CLASS OR DIVISION #_____

If EPCRA, Please Sign Here

[redacted]

ENTERED 3-27-03 ac

11/27/02 BR
Mitigation measures are not adequate.

UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION
BUSINESS OWNER/OPERATOR IDENTIFICATION

Page __ of __

I. IDENTIFICATION

FACILITY ID# 1: 860888	BEGINNING DATE 100:	ENDING DATE 101:	
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3: THORCALIFORNIA, INC. DBA THOR MANUFACTURING		BUSINESS PHONE 102: 909 697-4190	
BUSINESS SITE ADDRESS 103: 14050 DAY STREET			
CITY 104: MORENO VALLEY	CA	ZIP CODE 105: 92553	
DUN & BRADSTREET 106: N/A		SIC CODE (4 digit #) 107: 3792	
COUNTY 108: RIVERSIDE			
BUSINESS OPERATOR NAME 109: THOMAS J. POWELL		BUSINESS OPERATOR PHONE 110: 909 697-4190	

II. BUSINESS OWNER

OWNER NAME 111: THOR INDUSTRIES, INC.		OWNER PHONE 112: 513 596-6849	
OWNER MAILING ADDRESS 113: 419 W. PIKE STREET			
CITY 114: JACKSON CENTER	STATE 115: OH	ZIP CODE 116: 45334	

III. ENVIRONMENTAL CONTACT

CONTACT NAME 117: JOHN SANGA		CONTACT PHONE 118: 909 697-4190 x295	
CONTACT MAILING ADDRESS 119: 14255 ELSWORTH STREET			
CITY 120: MORENO VALLEY	STATE 121: CA	ZIP CODE 122: 92553	

IV. EMERGENCY CONTACTS

-PRIMARY-		-SECONDARY-	
NAME 123: JOHN SANGA		NAME 128: BOB EGGERING	
TITLE 124: SAFETY & SECURITY MANAGER		TITLE 129: CONTROLLER	
BUSINESS PHONE 125: 909 697-4190 x295		BUSINESS PHONE 130: 909 697-4190 x223	
24-HOUR PHONE 126: [redacted]		24-HOUR PHONE 131: [redacted]	
CELL PHONE 909 233-7616			132

ADDITIONAL LOCALLY COLLECTED INFORMATION: 133

Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am submitted and believe the information is true, accurate, and complete.

OR OR DESIGNATED REPRESENTATIVE	DATE 134: 9/26/2002	NAME OF DOCUMENT PREPARER
136	TITLE OF SIGNER: PRESIDENT	

[redacted]

ENTERED 3-27-03 Entered

HAZARDOUS MATERIALS BUSINESS EMERGENCY PLAN
EMERGENCY PROCEDURES

Emergency response plans and procedures are an integral part of the HMBEP. By taking the time to develop plans and procedures for your business, you will avoid complications resulting from inaction or misguided action during an emergency. Once the plans and procedures are developed, your employees will have an informative guide to follow in the event of an emergency. You must address each of the following items, however, the amount of detail you provide will depend upon the size and nature of the business, the damage potential of the hazardous materials handled and the location of the business with respect to residential or other populated areas.

1. EMERGENCY RESPONSE PLANS AND PROCEDURES

A. **If you have a release or threatened release of hazardous materials, your business is required by state law to provide immediate notification to the following agencies:**

Immediately call:

Local emergency response personnel (Fire, paramedics, police or sheriff)	911
State Office of Emergency Services	(800) 852-7550 or (916) 262-1621

Immediately call the appropriate jurisdiction:

The County of Riverside Hazardous Materials Management Division:	(909) 358-5055
CDF/Banning Fire Service	(909) 922-3210
City of Corona Fire Department	(909) 736-2220
City of Riverside Fire Department	(909) 826-5321

Person(s) within the facility required to respond to a hazardous materials incident:

Name: JOHN SANGA Telephone: (909)233-7616

Name: ROBERT GUTIERREZ Telephone: (909)534-8718

B. Identify the local emergency medical facility that will be used by your business in the event of an injury caused by the release of a hazardous material:

Name: RIVERISDE COUNTY REGIONAL MEDICAL CENTER

Address: 26520 CACTUS AVENUE

City: MORENO VALLEY, CA 92555

Phone: (909)484-4000

2. PREVENTION

Describe the kinds of hazards associated with the materials present at your business. Provide information on the steps taken at your business, or the policies or procedures now in place, to **help prevent** an accidental release of a hazardous material. Issues for discussion may include safety, storage, and containment procedures. Be specific for each type of hazardous materials at your business.

LP6 TANK PROTECTED BY 6" CRASH POLES. ALSO HAS AN EMERGENCY SHUT-OFF SWITCH. FIRE EXTINGUISHER ADJACENT. LOCATION OF THE TANK IS 165' FROM BUILDINGS. NOTHING IS STORED AROUND THE TANK.

3. MITIGATION

Describe the procedures to be followed to **reduce the severity** of a release of threatened release of a hazardous material at your business. The procedures should detail the actions to be taken by employees to stop a release, contain a release, or to reduce the problems associated with a release. What is your immediate response to a spill, fire, explosion of airborne release at your business? Do not write procedures that exceed the capabilities of employee or equipment at you business or that violate any workers safety laws.

EMPLOYEES ARE NOT TO ATTEMPT TO CORRECT LEAK OR FIRE. IN CASE OF LEAK VENDOR IS TO BE CALLED. IN THE EVENT OF FIRE, THE FIRE DEPT. IS TO BE CALLED.

4. ABATEMENT

Describe what you would do to **stop** and **remove** each hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your business? What aspects of the response are beyond your ability and need to be handled by others? Who would you call to handle the release?

SAME AS ABOVE: PRO FLAME (909) 825-2605
FIRE DEPT. (909) 242-3101 -OR- 911

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
THORCALIFORNIA

CHEMICAL LOCATION 201 [redacted]

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☒ NO

FACILITY ID # 1 | MAP# (optional) 203 | GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
LIQUIFIED PETROLEUM GAS

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
PROPANE

EHS* ☐ Yes ☒ No 208

CAS# 209
74-98-6

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c GAS 214

LARGEST CONTAINER 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
425	425	N/A	N/A

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
365

STORAGE CONTAINER ☒ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	100% 226	PROPANE 227	☐ Yes ☒ No 228	74-98-6 229
2	230	231	☐ Yes ☐ No 232	233
3	234	235	☐ Yes ☐ No 236	237
4	238	239	☐ Yes ☐ No 240	241
5	242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD IDENTIFICATION: HEALTH ___ FLAMMABILITY XX REACTIVITY ___ SPECIAL HAZARD ___

UN # _____ HAZARD CLASS OR DIVISION # _____

If EPCRA, Please Sign Here

PRO-FLAME

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

HD-5 PROPANE FUEL (ODORIZED)

PRODUCT NUMBER(S): CPS262200 CPS262442 WPS-300

COMPANY IDENTIFICATION

ProFlame, Inc.
P.O. Box 5069
Novato, California 94948

EMERGENCY TELEPHONE NUMBERS

Transportation (24 hr):
CHEMTREC (800)424-9300 or (202)483-7616
Health (24 hr):
(800)231-0623 or (510)231-0623 (International)

PRODUCT INFORMATION: (415) 883-8717

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.00% HD-5 PROPANE FUEL (ODORIZED)

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
PROPANE Chemical Name: PROPANE CAS74986	>90.0%	Asphyxiant 1800 mg/m3	ACGIH TWA OSHA PEL
ETHANE Chemical Name: ETHANE CAS74840	<10.0%	Asphyxiant	ACGIH TWA
PROPYLENE Chemical Name: 1-PROPENE CAS115071	<5.0%	Asphyxiant	ACGIH TWA
HYDROCARBONS, C4 and up Chemical Name: HYDROCARBONS, C4 and up CAS68476448	<2.5%	None	N/A
ETHYL MERCAPTAN Chemical Name: ETHYL MERCAPTAN CAS75081		0.5 ppm 25 mg/m^3	ACGIH TWA OSHA PEL
RADON Chemical Name: RADON CAS14859677		None	N/A

COMPOSITION COMMENT:
All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory. This material is classified as a simple asphyxiant. When working with this material, the minimal oxygen content should be 18 percent by volume under normal atmospheric pressure.

TLV	- Threshold Limit Value	TWA	- Time Weighted Average
STEL	- Short-term Exposure Limit	TPQ	- Threshold Planning Quantity
RQ	- Reportable Quantity	PEL	- Permissible Exposure Limit
C	- Ceiling Limit	CAS	- Chemical Abstract Service Number
A1-5	- Appendix A Categories	( )	- Change Has Been Proposed

3. HAZARDS IDENTIFICATION

**********EMERGENCY OVERVIEW**********

Colorless gas or liquid with distinct odor of commercial natural gas.

-EXTREMELY FLAMMABLE
-LIQUID CAN CAUSE EYE AND SKIN INJURY
-MAY EXCLUDE OXYGEN AVAILABLE FOR BREATHING
-DETECTION OF LEAK VIA SENSE OF SMELL MAY NOT BE POSSIBLE IF ODORANT HAS DEGRADED
-CONTENTS UNDER PRESSURE

****

POTENTIAL HEALTH EFFECTS

EYE:
The gas phase is not expected to cause eye irritation. However, the liquid can cause frostbite and burns. This hazard evaluation is based on the data from similar materials.

SKIN:
The gas is not irritating to the skin. However, skin contact with liquid or solid can cause severe frostbite or burns. The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. This hazard evaluation is based on data from similar materials.

INGESTION:
Material is a gas and cannot usually be swallowed.

INHALATION:
This material can act as a simple asphyxiant by displacement of air. This hazard evaluation is based on data from similar materials.

SIGNS AND SYMPTOMS OF EXPOSURE:
INHALATION: Signs and symptoms of the resultant central nervous system effects may include rapid breathing, incoordination, rapid fatigue, excessive salivation, disorientation, headache, nausea, and vomiting. Convulsions, loss of consciousness, coma and/or death may occur if exposure to high concentration continues.

4. FIRST AID MEASURES

EYE:
Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. See a doctor for further treatment as soon as possible.

SKIN:
Skin contact with the liquid may result in frostbite and burns. Soak contact area in tepid water to alleviate the immediate effects and get medical attention.

INGESTION:
Not expected to be an ingestion problem, no first aid procedures are required.

INHALATION:
If any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASH POINT: GAS (NFPA)
AUTOIGNITION: 450C (842F)
FLAMMABILITY LIMITS (% by volume in air): Lower: 2.1 Upper: 9.5
EXTINGUISHING MEDIA:
Stop flow of gas. CO_2 for small fires. Water fog.

NFPA RATINGS: Health 1; Flammability 4; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:
This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Petroleum gases are heavier than air and travel along the ground or into drains to possible distant ignition sources, causing an explosive flashback.

COMBUSTION PRODUCTS:
Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24-HOUR): (800)424-9300 OR (209)483-7616

ACCIDENTAL RELEASE MEASURES:
Eliminate all sources of ignition in vicinity of spill or released vapor.

If this material is released into a work area, evacuate the area immediately. Persons entering the contaminated area to correct the problem or to determine whether it is safe to resume normal

activities must comply with all instructions in the Exposure Controls/Personal Protection section. Allow to dissipate with adequate ventilation.

7. HANDLING AND STORAGE

HANDLING AND STORAGE:
DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Before entry into confined spaces that may have contained hazardous material, determine concentrations and take appropriate measures for personal protection. Material presents a hazard that may require personal protective equipment for entry. CONTAINER UNDER PRESSURE. Store away from strong oxidizing materials.

This product has been odorized in order to aid in its detection in case of a leak or accidental discharge. During shipping or storage of an odorized material, alteration of the odorant and subsequent reduction in its effectiveness may occur.

Odorants are reactive. Rust and scale in storage containers and pipes may significantly reduce an odorant's effectiveness. For this reason, storage containers must be free of rust and scale. Whenever an empty cylinder is filled, it must be properly purged and conditioned to remove air and water and to deactivate sites for oxidation of the odorant. Underground pipelines should also be checked periodically for leaks.

Prolonged exposure to an odorant or other strong smells in the environment may reduce an individual's ability to detect the odorant. People with an impaired ability to detect odors due to colds, allergies, smoking, injuries, etc., must be especially cautious.

Special precautions should be taken when entering or handling equipment in this type of gas service because of possible radioactive contamination. All equipment should be checked for radioactivity or opened to the atmosphere and have forced ventilation applied or at least four hours prior to entry or handling. Avoid direct skin contact with any surface. Avoid generation of dust, smoke, fumes, etc. in the work area, or if they cannot be avoided, a tested and certified radionuclide dust respirator should be worn. Smoking, eating, or drinking, should be prohibited when working with the equipment. Employees should wash thoroughly with soap and water and discard contaminated clothing after entering or handling the equipment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:
Appropriate eye protection must be worn when working with this material or serious harm can result. Wear chemical goggles or a face shield at all times.

SKIN PROTECTION:
Do not get on skin or on clothing. Wear protective clothing including gloves when handling.

RESPIRATORY PROTECTION:
No special respiratory protection in normally required.

ENGINEERING CONTROLS:
Use this material only in well ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:
Colorless gas or liquid with distinct odor of commercial natural gas.

pH:	NDA
VAPOR PRESSURE:	208 PSI @ 37.8C (Max.).
VAPOR DENSITY (AIR=1):	1.6
BOILING POINT:	-44F (-42C)
FREEZING POINT:	NDA
MELTING POINT:	NA
SOLUBILITY:	Soluble in alcohol, ether and hydrocarbons; insoluble in water.
SPECIFIC GRAVITY:	0.5 @ 15.6/15.6C.
DENSITY:	NDA
EVAPORATION RATE:	NDA
PERCENT VOLATILE (VOL):	100%

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:
NDA
CHEMICAL STABILITY:
Stable.
CONDITIONS TO AVOID:
No data available
INCOMPATIBILITY WITH OTHER MATERIALS:
May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
HAZARDOUS POLYMERIZATION:
Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
SKIN EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
ACUTE ORAL EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
ACUTE INHALATION EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
ADDITIONAL TOXICOLOGY INFORMATION:
This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.

This product contains isobutane. Isobutane has been shown to increase airway resistance by bronchioconstriction and decrease pulmonary compliance and tidal volume (difficulty in breathing).

Air containing 27% isobutane was found to decrease respiratory rate and proved to be fatal to rats.

This product may contain detectable but varying quantities of the naturally occurring radioactive substance radon 222. The amount in the gas itself is not hazardous, but since radon rapidly decays (t1/2=3.82 days) to form other radioactive elements including lead 210, polonium 210, and bismuth 210, equipment may be radioactive. The radon daughters are solids and therefore may attach to dust particles or form films and sludges in equipment. Inhalation, ingestion or skin contact with radon daughters can lead to the deposition of radioactive material in the lungs, bone, blood forming organs, intestinal tract, kidney, and colon. Occupational exposure to radon and radon daughters has been associated with an increased risk of lung cancer in underground uranium miners. Follow the special Precautions contained in this document.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:
No data available.
ENVIRONMENTAL FATE:
No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:
This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by USEPA under RCRA (40CFR261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME:	LIQUIFIED PETROLEUM GAS
DOT HAZARD CLASS:	2.1 (FLAMMABLE GAS)
DOT IDENTIFICATION NUMBER:	UN1075

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:			
	1.	Immediate (Acute) Health Effects:	YES
	2.	Delayed (Chronic) Health Effects:	NO
	3.	Fire Hazards:	YES
	4.	Sudden Release of Pressure Hazard:	YES
	5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01 =	SARA 313	11 =	NJ RTK	22 =	TSCA Sect 5 (a)(2)
02 =	MASS RTK	12 =	CERCLA 302.4	23 =	TSCA Sect 6
03 =	NTP Carcinogen	13 =	MN RTK	24 =	TSCA Sect 12 (b)
04 =	CA Prop 65 Carcin	14 =	ACGIH TWA	25 =	TSCA Sect 8 (a)

05 =	CA Prop 65-Repro Tox	15 =	ACGIH STEL	26 =	TSCA Sect 8 (d)
06 =	IARC Group 1	16 =	ACGIH-Calc TLV	27 =	TSCA Sect 4 (a)
07 =	IARC Group 2A	17 =	OSHA PEL	28 =	Canadian WHMIS
08 =	IARC Group 2B	18 =	DOT Marine Pollutant	29 =	OSHA CEILING
09 =	SARA 302/304	19 =	Chevron TWA	30 =	Chevron STEL
10 =	PA RTK	20 =	EPA Carcinogen		

The following components of this material are found on the regulatory lists indicated.

1-PROPENE
is found on lists: 01, 02, 10, 11, 13, 14

RADON
is found on lists: 06

ETHANE
is found on lists: 02, 10, 11, 13, 14

PROPANE
is found on lists: 02, 10, 11, 13, 14, 17

ETHYL MERCAPTAN
is found on lists: 02, 10, 11, 13, 14, 17, 28

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 4; Reactivity 0;

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:

07/23/94: This revision updates Section 1 (CHEMICAL PRODUCT AND COMPANY IDENTIFICATION) and Section 5 (FIRE RIGHTING MEASURES).

01/19/96: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200 Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
ThorCalifornia

CHEMICAL LOCATION 201 [redacted]

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202
☐ YES ☒ NO

FACILITY ID # 1

MAP# (optional) 203

GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205
No. 2 Diesel

TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207
Diesel

EHS* ☐ Yes ☒ No 208

CAS# 209
68476-30-2

*If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215
55 Gallon Drum

FED HAZARD CATEGORIES (Check all that apply) 216
☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
165	165	30 Gallons	

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 222
365

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☒ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☐ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	226	227	☐ Yes ☐ No 228	229
2	230	231	☐ Yes ☐ No 232	233
3	234	235	☐ Yes ☐ No 236	237
4	238	239	☐ Yes ☐ No 240	241
5	242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

NFPA HAZARD IDENTIFICATION: HEALTH ___ FLAMMABILITY ___ REACTIVITY ___ SPECIAL HAZARD ___ 246

UN # _____ HAZARD CLASS OR DIVISION #_____

If EPCRA, Please Sign Here

[redacted]

MATERIAL SAFETY DATA SHEET

Product Name: No. 2 Diesel Fuel
Product Code: Multiple

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: No. 2 Diesel Fuel
Product Code: Multiple
Synonyms: CARB Diesel TF3
CARB Diesel
CARB Diesel 10%
Diesel Fuel Oil
EPA Low Sulfur Diesel Fuel
EPA Low Sulfur Diesel Fuel - Dyed
EPA Off Road High Sulfur Diesel - Dyed
Fuel Oil No. 2 - CAS # 68476-30-2
No. 2 Diesel Fuel Oil
No. 2 Fuel Oil - Non Hiway - Dyed
No. 2 High Sulfur Diesel - Dyed
No. 2 Low Sulfur Diesel - Dyed
No. 2 Low Sulfur Diesel - Undyed

Responsible Party: Tosco Corporation
1700 East Putnam Avenue
Old Greenwich, CT 06870

Help Desk 8am - 4pm Pacific Time, Mon-Fri: 1-800-762-0942

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:

Spill, Leak, Fire or Accident
Call CHEMTREC
North America: (800)424-9300
Others: (703)527-3887 (collect)

California Poison Control System: (800)356-3129

Health Hazards: Causes severe skin irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards: Flammable liquid and vapor. Keep away from heat, sparks, flames, static electricity or other sources of ignition.

▶ Physical Form: Liquid

- Appearance: Straw-colored to dyed red
- Odor: Characteristic petroleum

NFPA HAZARD CLASS: Health: 0 (Least)
Flammability: 2 (Moderate)
Reactivity: 0 (Least)

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% Volume	EXPOSURE GUIDELINE		
		Limits	Agency	Type
Diesel Fuel No. 2 CAS# 68476-34-6	100	100* mg/m3	ACGIH	TWA-SKIN
Naphthalene CAS# 91-20-3	<1	10 ppm	ACGIH	TWA
		15 ppm	ACGIH	STEL
		10 ppm	OSHA	TWA
		250 ppm	NIOSH IDLH	

Tosco Low Sulfur No. 2 Diesel meets the specifications of 40 CFR 60.41 for low sulfur diesel fuel.

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

*Proposed ACGIH (1999)

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

Eye: Contact may cause mild eye irritation including stinging, watering, and redness.

Skin: Severe skin irritant. Contact may cause redness, itching, burning, and severe skin damage. Prolonged or repeated contact can worsen irritation by causing drying and cracking of the skin, leading to dermatitis (inflammation). Not acutely toxic by skin absorption, but prolonged or repeated skin contact may be harmful (see Section 11).

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by

inhalation.

Ingestion (Swallowing): Low degree of toxicity by ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausea, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Cancer: Possible skin cancer hazard (see Sections 11 and 14).

Target Organs: There is limited evidence from animal studies that overexposure may cause injury to the kidney (see Section 11).

Developmental: Inadequate data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders and kidney disorders.

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Immediately remove contaminated shoes, clothing, and constrictive jewelry and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or

unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flash Point: >125°F/>52°C
OSHA Flammability Class: Combustible liquid
LEL%: 0.3 / UEL%: 10.0
Autoignition Temperature: 500°F/260°C

Unusual Fire & Explosion Hazards: This material is flammable and can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, or foam is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Flammable. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.

Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors (see Section 5). Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

7. HANDLING AND STORAGE

Handling: Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Can accumulate static charge by flow or agitation. Can be ignited by static discharge. The use of explosion-proof equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-704 and/or API RP 2003 for specific bonding/grounding requirements.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Use good personal hygiene practices.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1 and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post area "No Smoking or Open Flame." Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used (see appropriate electrical codes).

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with

an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Flash Point: >125°F / >52°C
Flammable/Explosive Limits (%): LEL: 0.3 / UEL: 10.0
Autoignition Temperature: 500°F / 260°C
Appearance: Straw-colored to dyed red
Physical State: Liquid
Odor: Characteristic petroleum
pH: Not applicable
Vapor Pressure (mm Hg): 0.40
Vapor Density (air=1): >3

Boiling Point/Range: 320-700°F / 160-371°C
Freezing/Melting Point: No Data
Solubility in Water: Negligible
Specific Gravity: 0.81-0.88 @60°F
Percent Volatile: Negligible
Evaporation Rate (nBuAc=1): <1
Viscosity: 32.6-40.0 SUS @100°F
Bulk Density: 7.08 lbs/gal

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of storage and handling. Flammable liquid and vapor. Vapor can cause flash fire.

Conditions To Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Incompatible Materials: Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Hazardous Decomposition Products: The use of hydrocarbon fuels in an area without adequate ventilation may result in hazardous levels of combustion products (e.g., oxides of carbon, sulfur and nitrogen, benzene and other hydrocarbons) and/or dangerously low oxygen levels. ACGIH has included a TLV of 0.05 mg/m3 TWA for diesel exhaust particulate on its 1999 Notice of Intended Changes. See Section 11 for additional information on hazards of engine exhaust.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Diesel Fuel No. 2 (CAS# 68476-34-6)

Carcinogenicity: Chronic dermal application of certain middle distillate streams contained in diesel fuel No. 2 resulted in an increased incidence of skin tumors in mice. This material has not been identified as a carcinogen by NTP, IARC, or OSHA. Diesel exhaust is a probable cancer hazard based on tests with laboratory animals.

Target Organ(s): Limited evidence of renal impairment has been noted from a few case reports involving excessive exposure to

diesel fuel No. 2.

Naphthalene (CAS# 91-20-3)

Carcinogenicity: Female mice exposed via inhalation to naphthalene developed alveolar adenomas. This effect was not seen in male mice. It has not been identified as a carcinogen by NTP, IARC or OSHA.

12. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

13. TRANSPORT INFORMATION

DOT Proper Shipping Name / Technical Name: Diesel Fuel
Hazard Class or Division: 3
ID #: NA1993
Packing Group: III

14. REGULATORY INFORMATION

This material contains the following chemicals subject to the reporting requirements of **SARA** 313 and 40 CFR 372:

COMPONENT	CAS NUMBER	WEIGHT %
-- None known --		

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of **California Proposition 65** (CA Health & Safety Code Section 25249.5):

COMPONENT	EFFECT
Benzene	Cancer, Developmental and Reproductive Toxicant
Toluene	Developmental Toxicant

Diesel engine exhaust, while not a component of this material, is on the Proposition 65 list of chemicals known to the State of California to cause cancer.

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any. Diesel exhaust is a probable cancer hazard based on tests in laboratory animals. It has been identified as a carcinogen by IARC.

EPA (CERCLA) Reportable Quantity: --None--

15. DOCUMENTARY INFORMATION

Issue Date: 07/10/00
Previous Issue Date: 04/03/00
Product Code: Multiple
Previous Product Code: Multiple

16. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. **HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.** No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product

for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

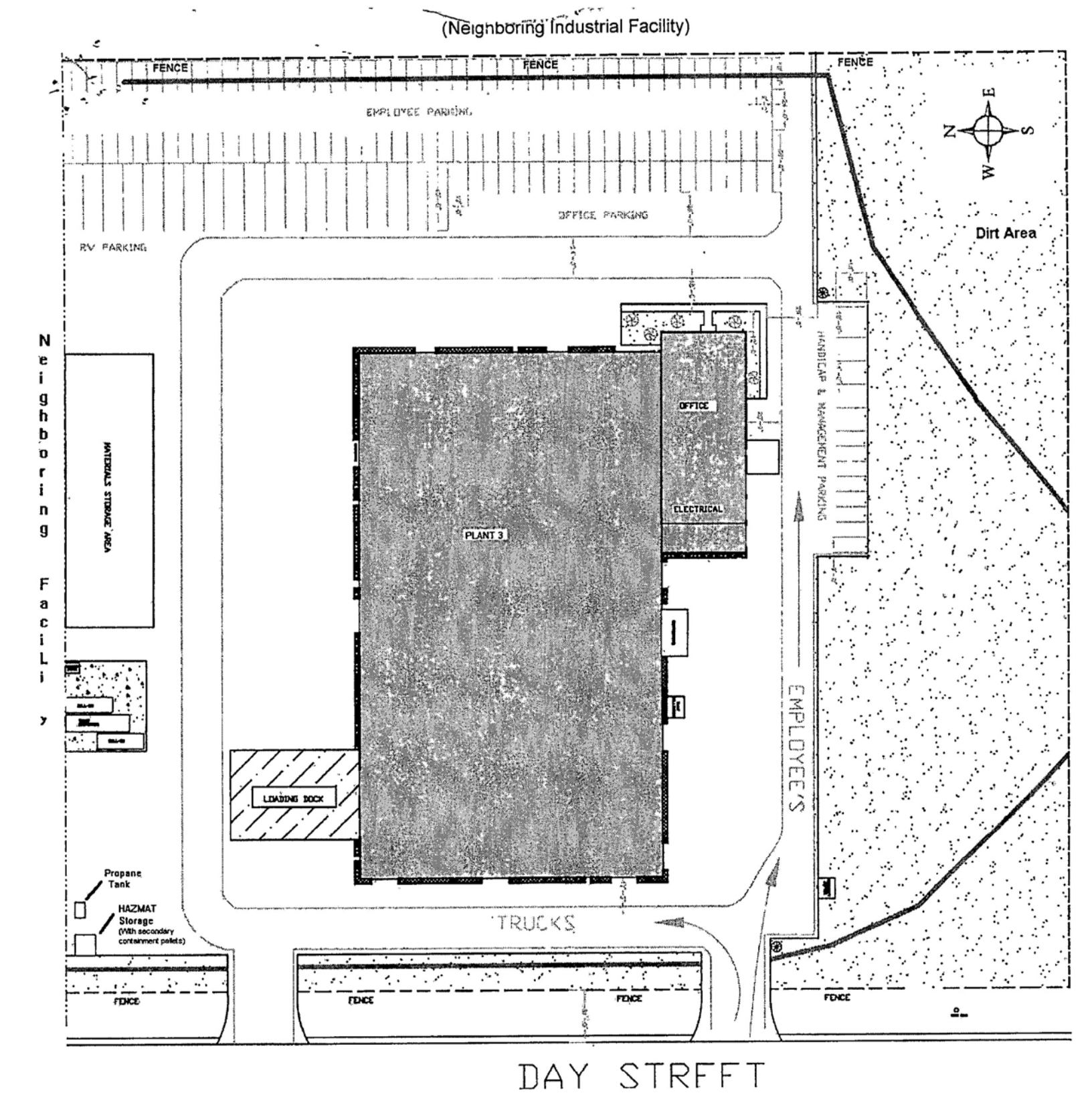


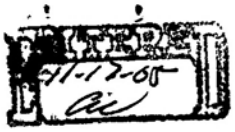
DIAGRAM LEGEND

- -General Building
- -Open Structure
- -Dirt
- -Overhead Door
- -Concrete Block Wall
- -Material Storage Racks
- -Chain Link Fence
- -Roll-Off Dumpster
- -Water Faucet/Hose

Scale

1" = 100'

THORCALIFORNIA
14050 Day Street
Moreno Valley, CA. 92553



Office Use Only
Level
Initials
Date Reviewed

HAZARDOUS MATERIALS
BUSINESS EMERGENCY PLAN AND INVENTORY CERTIFICATION FORM

Business Name THOR CALIFORNIA Facility # 86088
Owner/Operator Name ROBERT THOMPSON Telephone 951-697-4190
Facility Address 14050 DAY ST.
City MORENO VALLEY State CA Zip Code 92553

Annual Business Emergency Plan Inventory Review and Update

✓ The information contained on the annual inventory form most recently submitted to the administering agency is complete, accurate, and up to date and complies with all of the following statements:

1. There has been no change in the quantity of any hazardous material as reported in the most recently submitted annual inventory;
2. No hazardous materials subject to the inventory requirements of Chapter 6.95 H&SC are being handled that are not listed on the most recently submitted annual inventory form; and
3. The most recently submitted annual inventory form contains the information required by sec. 11022 of Title 42 of the United States Code. (The County/OES form 2731meets this requirement)

___ The inventory as previously reported has changed. Attached are new inventory reporting forms for all changes.

Triennial (3 Year) Business Emergency Plan Review and Certification

✓ I certify that the Business Emergency Plan has been reviewed and the information contained in it is accurate and complete as of this date _____.

✓ I certify that I have reviewed the Business Emergency Plan and have updated the following items (updated items are attached):

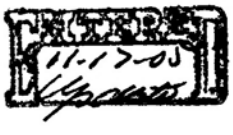
- ✓ Emergency contacts names and/or telephone numbers.
- ___ Site and/or facility map(s).
- ___ Emergency procedures.
- ___ Other Information: _____.

Notification should be made to this agency within 30 days if any of the following events occur: change of ownership; change of business name; mailing address; phone number; location; emergency contact person; 100% or more increase in the quantity of a disclosed material; or any handling of a previously undisclosed material subject to regulation. A copy of this form should be kept at the business and available for review upon request of this agency. This form can only be used if you have already submitted the most current version of the Chemical Inventory Form (OES Form 2731). If your business falls under EPCRA/SARA Title III, this form does not meet the annual inventory reporting requirements.

I certify under penalty of law that I have examined and am familiar with the information submitted in this and all attached documents, that the information provided herein is true, accurate, and complete to the best of my knowledge.

Name Aurora Diaz Signature Aurora Diaz
Title Safety Coordinator Date 10/10/05

02/02



Certified Unified Program Agency
County of Riverside Community Health Agency
Department of Environmental Health Hazardous Materials Management Division
Hazardous Materials Handler Inspection Report

ENTERED

Facility Name: Thor Manufacturing Date 6/30/04

Address: 14050 Day St. Inspection: Routine [X] Reinspection [ ]

City Moreno Valley Zip Code: 92557 Level: Facility #: 86088

Contact Person: Number of Employees: Telephone:

Riverside County Ordinance 651 California Code of Regulations Title 19 Health & Safety Code Chapter 6.95 California Fire Code

Y	N	N/A	Item marked "No" are violations of the above-referenced codes and must be corrected as follows:
	✓		**100. Current Permit**
			101. Hazardous Materials Business Emergency Plan
✓			A. Approved Plan on Site and Available for Review
✓			B. Plan Updated within Past 3 Years
			102. Chemical Inventory Disclosure
	✓		(A.) Chemical Inventory Complete
✓			B. Inventory Updated Annually
			103. Emergency Response Plans and Procedures
	✓		A. Prevention, Mitigation and Abatement Measures
✓			(B.) Documented Employee Training
✓			C. Evacuation Plan with Routes
✓			(D.) Facility Map with Location of Chemicals
✓			E. MSDS Available
			104. Posting
✓			A. NFPA 704 Sign(s) Posted Front Gate
✓			B. Emergency Phone Numbers Posted
✓			C. Hazardous Materials Storage Area Posted NFPA 704
✓			D. Emergency Equipment Posted
		✓	E. Pesticide Storage Area Posted
			105. Storage
✓			A. Maintained to Minimize the Possibility of Release
✓			B. Handling Areas Secured
✓			C. Incompatibles Stored Separately
✓			D. Containers Properly Labeled
			106. Other

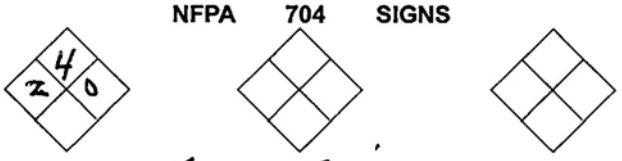
Hazardous Materials:
Propane
Diesel
✓ Oxygen
✓ acetylene
✓ Heat transfer oil
✓ Antifreeze
✓ Adhesives
✓ Clear Thi- Spread Adhesive
✓ Safe Clean Solvent or Substitute Solvent

100.) This facility will require a Hazardous Materials Handler permit.

102.A.) Complete chemical inventory forms for the above checked chemicals. Add to the Business Emergency Plan.

Correction: 7/29/04

NFPA 704 SIGNS



Specialist: Bruce Bailey

The above noted violations shall be corrected within ____ days.

Received by: X

Print Name: X Robert Gutierrez

Title: X Secretary Supervisor

X **Riverside Office** (909) 358-5055
P.O. Box 7489
Riverside, CA 92513-7489

Indio Office (760) 863-8976
47-923 Oasis Street, Rm. E-4
Indio, CA 92201

Hemet Office (909) 766-6524
800 S. Sanderson Avenue
Hemet, CA 92545

DEH-HEH-025 (Rev 7/02)

Certified Unified Program Agency
County of Riverside Community Health Agency
Department of Environmental Health
Hazardous Materials Management Division

SUPPLEMENTAL REPORT

Reference Date 6/30/04

Name Thor Manufacturing

Address 14050 Day St., Moreno Valley

Re: Hazardous Materials Inspection Facility # 86088

Remarks:

103. A.) Mitigation / Clean up / Abatement procedures should be specific to the inventoried chemical. Add specific instructions for each chemical.

Correction Date: 7/29/04

103. D.) Update facility map to include the additional inventoried chemicals.

Correction Date: 7/29/04

103. B.) New employee training was available. Tail gate meetings are also given.

Employees require yearly refresher training covering the following items:

1.) Review the Business Emergency Plan.
2.) Review the proper handling and disposal of chemicals onsite.
3.) Review the proper use of safety equipment onsite.

The Plan should be available for emergency use onsite.

Correction Date: 7/29/04

Specialist [signature] Received By [signature]

white-specialist; yellow-operator; pink-file

ENTERED

Certified Unified Program Agency
County of Riverside Community Health Agency
Department of Environmental Health Hazardous Materials Management Division
Hazardous Materials Handler Inspection Report

Facility Name: Thor Manufacturing Date 6/30/04
Address: 14050 Day St. Inspection: Routine [X] Reinspection [ ]
City Moreno Valley Zip Code: 92557 Level: Facility #: 86088
Contact Person: Number of Employees: Telephone:

Riverside County Ordinance 651 California Code of Regulations Title 19 Health & Safety Code Chapter 6.95 California Fire Code

Y	N	N/A	Item marked "No" are violations of the above-referenced codes and must be corrected as follows:
	✓		**100. Current Permit**
			101. Hazardous Materials Business Emergency Plan
✓			A. Approved Plan on Site and Available for Review
✓			B. Plan Updated within Past 3 Years
			102. Chemical Inventory Disclosure
	✓		(A.) Chemical Inventory Complete
✓			B. Inventory Updated Annually
			103. Emergency Response Plans and Procedures
	✓		A. Prevention, Mitigation and Abatement Measures
✓			(B.) Documented Employee Training
✓			C. Evacuation Plan with Routes
✓			(D.) Facility Map with Location of Chemicals
✓			E. MSDS Available
			104. Posting
✓			A. NFPA 704 Sign(s) Posted Front Gate
✓			B. Emergency Phone Numbers Posted
✓			C. Hazardous Materials Storage Area Posted NFPA 704
✓			D. Emergency Equipment Posted
		✓	E. Pesticide Storage Area Posted
			105. Storage
✓			A. Maintained to Minimize the Possibility of Release
✓			B. Handling Areas Secured
✓			C. Incompatibles Stored Separately
✓			D. Containers Properly Labeled
			106. Other

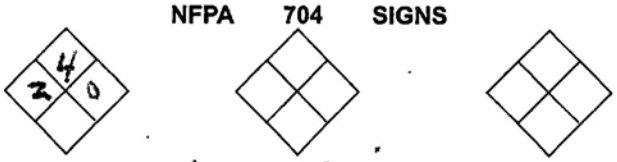
Hazardous Materials:
Propane
Diesel
✓ Oxygen
✓ acetylene
✓ Heat transfer oil
✓ Antifreeze
✓ Adhesives
✓ Clean Th.- Spread Adhesive
✓ Safe Clean Solvent
or Substitute Solvent

100.) This facility will require a Hazardous Materials Handler permit.

102.A.) Complete chemical inventory forms for the above checked chemicals. Add to the Business Emergency Plan.

Correction: 7/29/04

NFPA 704 SIGNS



Specialist: Bruce Bailey

The above noted violations shall be corrected within ____ days.
Received by: X
Print Name: X Robert Gutierrez
Title: X Safety Supervisor

X Riverside Office (909) 358-5055
P.O. Box 7489
Riverside, CA 92513-7489

Indio Office (760) 863-8976
47-923 Oasis Street, Rm. E-4
Indio, CA 92201

Hemet Office (909) 766-6524
800 S. Sanderson Avenue
Hemet, CA 92545

Certified Unified Program Agency
County of Riverside Community Health Agency
Department of Environmental Health
Hazardous Materials Management Division

SUPPLEMENTAL REPORT

Reference Date 6/30/04

Name Thor Manufacturing

Address 14050 Day St., Moreno Valley

Re: Hazardous Materials Inspection Facility # B6088

Remarks:

103. A.) Mitigation / clean up / Abatement procedures should be specific to the inventoried chemicals. Add specific instructions for each chemical.

Correction Date: 7/29/04

103. D.) Update facility map to include the additional inventoried chemicals.

Correction Date: 7/29/04

103. B.) New employee training was available. Tail gate meetings are also given.

Employees require yearly refresher training covering the following items:

1.) Review the Business Emergency Plan.
2.) Review the proper handling and disposal of chemicals onsite.
3.) Review the proper use of safety equipment onsite.

The plan should be available for emergency use onsite.

Correction Date: 7/29/04

Specialist [signature] Received By [signature]

DEH-HEH-002 (rev 5/02) HMHC 2002

white-specialist; yellow-operator; pink-file

8/3/04 MS

COUNTY OF RIVERSIDE • COMMUNITY HEALTH AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH

Self-Certification of Return to Compliance

ENTERED

Business Name Thor Manufacturing Facility ID# 86088

Street Address 14050 Day Street

City Moreno Valley State CA Zip Code 92557

Responsible Party Thor Manf. Phone number (909) 697-4190

Date of Inspection 6/30/04 Violation(s) (list):

Hazardous Materials: Item 102A, 103.A; 103B, 103D.

Hazardous Waste: Item 22B

I certify under penalty of law that:

1. Robert Gutierrez (Name of the Responsible Party), has corrected the violations specified in the above-entitled action.
2. I have personally examined all documentation attached to this certification to establish that the violations specified have been corrected.
3. Based upon my examination of the attached documentation and inquiry of the individual(s) who prepared or obtained them, I believe the information to be true, accurate and complete.
4. I am authorized to file this certification on behalf of the Responsible Party.
5. I am aware that there are significant penalties for submitting false or misleading information, which can include fines and/or imprisonment.

Signature — Date: 7/23/04

Robert Gutierrez — Print or typed name

Driver license/ID number

RECEIVED 2004 JUL 26 AM 10:31
COMMUNITY HEALTH AGENCY OF RIVERSIDE COUNTY
DEPT. OF ENV. HEALTH
HAZ. MAT. MGMT. DIVISION

Attached required documentation includes:

- [X] Business Emergency Plan
- [X] Copies of Waste Manifests
- [X] Training documentation (copies)
- [ ] Photographs
- [ ] Other:

Return to: Bruce Bailey
County of Riverside, Department of Environmental Health
Hazardous Materials Management Division

☒ Riverside Office
4065 County Circle Dr.
Riverside, CA 92503
(909) 358-5055
(909) 358-5017 Fax

☐ Hemet Office
800 S. Sanderson Ave. #200
Hemet, CA 92545
(909) 766-6524
(909) 766-7874 Fax

☐ Indio Office
47-923 Oasis St. E-4
Indio, CA 92201
(760) 863-8976
(760) 863-8303 Fax

EMPIRE OIL

2756 SO. RIVERSIDE AVE.
BLOOMINGTON, CA 92316-3248
(909) 877-0226 FAX (909) 877-0732
www.empireoil.com

ASAP

DELIVERY TICKET

SHIPPING DATE: 07-13-04

LOCATION :

SOLD TO
THOR OF CALIFORNIA
14050 DAY ST
MORENO VALLEY, CA 92553

12

SHIP TO
THOR OF CALIFORNIA
14050 DAY ST
MORENO VALLEY, CA 92553

(909) 656-3185

ORDER NO.	ORDER DATE	ACCOUNT NO.	SALESMAN NO.	CUST. P.O. NO.	TERMS	SHIP VIA	PAGE
404839	07-13-04	44355	72	78741	NET10DAYS	OUR TRUCK	1

QTY ORDERED	QTY SHIPPED	PRODUCT NUMBER	DESCRIPTION	UNIT PRICE	EXTENSION
			FOR TRANSPORTATION EMERGENCY - SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT EMERGENCY CONTACT: PERS 1-800-633-8253		
			HM ==	BATCH # =======	
1		DRUM X	FUEL OIL, 3, NA1993, PKG III COMBUSTIBLE LIQUID (DYED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE) THIS FUEL MEETS EPA REQUIREMENTS FOR SULFER, CETANE INDEX, OR AROMATIC CONTENT		
		72	CARB DIESEL #2 (200 PPM) RED		
55			CA OIL SPILL		
******	******	****	**********	**********	**********
1		EA	THIS FUEL MEETS EPA REQUIREMENTS FOR SULFER, CETANE INDEX, OR AROMATIC CONTENT		
		86600	DRUM DEPOSITS	20.00000	20.00
******	******	****	**********	**********	**********
0		EA	THIS FUEL MEETS EPA REQUIREMENTS FOR SULFER, CETANE INDEX, OR AROMATIC CONTENT		
		0	ENVIRONMENTAL BULK FEE	0.07500	0.00
******	******	****	**********	**********	**********
			*** DELIVERY MESSAGE *** ELSWORTH PLANT OPEN 6AM CLOSE AT 2:30PM DAY ST PLANT OPEN 5 AM CLOSE AT 2:30PM		
			SUBTOTAL		149.25
			SALES TAX 7.75%		10.02
			TOTAL		159.27

15 PICK UP

This is to certify that the above named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

TERMS: NET 30 DAYS UNLESS OTHERWISE STATED ABOVE. 1.75% MONTHLY INTEREST CHARGED ON PAST DUE BALANCES. CONDITIONAL SALES CONTRACT: Vendee agrees to buy the goods described above upon the terms herein stated. Vendor retains title to said property until the purchase price is paid, but Vendee is responsible for loss or damage to said property and no such loss or damage relieves Vendee from paying the full purchase price. If Vendee defaults in any term hereunder, Vendor may forfeit all of Vendee's rights hereunder and take possession of said property wherever located without legal process and Vendor shall retain all of Vendee's previous payments as rental for said property. If Vendor repossesses, Vendor may sell said property and Vendee shall pay Vendor any resulting deficiency. Acceptance of any payment by the Vendor after default shall not waive Vendor's rights hereunder. Vendee shall pay all costs and expenses including reasonable attorney fees resulting from Vendee's default hereunder. Payment must be made at Vendor's place of business. No adjustment allowance will be credited to this charge. Each drum charge herein, when paid, will be held by seller as a deposit, which seller may mingle with his own funds to secure return of the drum and will be forfeited to seller if the drum is not returned in undamaged condition within 90 days after the date hereon and will be credited to buyer if the drum is so returned.

RECEIVED BY: TITO TOLENTINO

DATE: 7/14/04

7-Minute SAFETY TRAINER

Reduce Your Chance of Chemical Exposure

Trainer Outline 520

Goals: This safety session should teach employees to:

- Understand the potential risks of chemical exposure.
- Know the basic steps to take to reduce the chance of exposure.

Applicable Regulations: 29 CFR 1910.1200

1. Exposure to Some Chemicals Can Cause Health Problems

Each chemical may present different health risks and different degrees of risk.

- Risk varies according to type, length of exposure, and repetition of exposure to the chemical.

2. Identify Chemical Hazards and Protective Measures Before You Start a Job

- Read a chemical's container label and material safety data sheet (MSDS) to identify health hazards and what type of exposure is dangerous.
- Health hazards can range from rashes and headache to cancer or even death.

  —**Acute** health effects develop quickly after exposure (e.g., rashes).

  —**Chronic** health effects develop after longtime exposure (e.g., lung disease).
- Health problems may develop from exposure due to:

  —**Inhaling** vapors or fumes (e.g., dizziness, nausea, breathing problems)

  —**Skin or eye contact** (e.g., rashes, allergies, blindness)

  —**Swallowing** (e.g., stomach or liver damage). May occur if you don't wash between handling a chemical and eating or smoking.

3. Use Personal Protective Equipment (PPE) to Prevent Chemical Contact

The MSDS lists the specific PPE that you need:

- Respirator to prevent inhaling the chemical.
- Gloves to prevent hand contact with the chemical.
- Eye protection to prevent splashes from reaching the eyes.
- Protective clothing to prevent body contact with the chemical.
- Select PPE approved for the hazard; every job has different requirements.
- Inspect PPE before use; be sure it's undamaged and fits well.
- Don't wear contaminated PPE into an uncontaminated area.
- Remove PPE without spreading contamination. Dispose of PPE properly.

4. Handle Chemicals Carefully to Prevent Spills, Splashes, and Releases

- Report, and don't use, a chemical whose container doesn't have a readable label.
- Inspect chemical containers regularly for leaks; report any problems.
- Keep chemical containers closed when you're not using them.
- Take only the amount you need out of the container.
- Use chemicals only in work areas that meet the MSDS ventilation requirements.

PROTECT YOURSELF FROM EXPOSURE TO HAZARDOUS CHEMICALS

KNOWLEDGE

- Pay attention to safety training.
- Read the chemical's label and MSDS to learn:
  - –What health problems can result from exposure
  - –What routes of exposure are dangerous (inhaling, swallowing, skin or eye contact)

PROTECTIVE CLOTHING

- Read the MSDS to learn what PPE will protect you from exposure.
- Select PPE that's in good condition and fits properly.
- Remove and dispose of PPE carefully to prevent spread of contamination.

SAFE HANDLING

- Inspect containers regularly and report leaks and missing or unreadable labels.
- Keep containers closed when not in use.
- Remove from the chemical container only the amount you need for a job.
- Use required ventilation to remove chemical vapors.
- Store and use chemicals away from substances and conditions that could cause hazardous reactions.

GOOD HYGIENE

- Keep food, drink, cigarettes, cosmetics, and street clothes out of chemical areas.
- Wash thoroughly after working with chemicals.
- Don't siphon chemicals by mouth.

EMERGENCY RESPONSE

- Clean up spills and leaks immediately, or alert trained responders.
- Take your evacuation route immediately in an emergency.
- Act fast after chemical contact.
  - –Get to fresh air after inhalation.
  - –Flush with water after skin or eye contact.
  - –Get medical attention after swallowing and after other first aid.

REDUCE YOUR CHANCE OF CHEMICAL EXPOSURE QUIZ

1. To learn about a chemical's health hazards, you check its:

a. Container label and material safety data sheet (MSDS)

b. Storage location

c. Personal protective equipment (PPE)

2. All exposures to chemicals can cause serious illness or even death.

a. True b. False

3. If a chemical is dangerous when inhaled, you might prevent exposure by using:

a. Protective clothing

b. Respirator

c. Skin cream

4. You're most likely to swallow a chemical if you:

a. Leave its container open

b. Forget to wear PPE

c. Fail to wash between handling the chemical and eating or smoking

5. You inspect PPE before use to make sure it's:

a. Washable

b. Not damaged

c. Not being used by someone else

6. When you take off PPE, you try to:

a. Avoid touching any parts that are contaminated

b. Keep it dry so it can be used again

c. Remove it as quickly as possible

7. The best way to avoid inhaling chemicals is to keep vapors out of the air by:

a. Not smoking around chemicals

b. Wearing gloves

c. Keeping chemical containers closed when they're not in use

8. Food, drinks, cigarettes, cosmetics, and street clothes should not be kept in areas that contain hazardous chemicals.

a. True b. False

9. You don't have to wear PPE to clean up a small chemical spill.

a. True b. False

10. If a chemical splashes on your skin or in your eyes, you should:

a. Wipe it off immediately

b. Flush it with water immediately

c. Ignore it

When you have completed this quiz, turn it in to your supervisor.

Name: _____ **Date:** _____

7-Minute SAFETY TRAINER

What You'll Find on an MSDS

Trainer Outline 515

Goals: This safety session should teach employees to:

- Recognize key MSDS hazard and protection information.
- Read and use MSDSs to work safely with chemicals.

Applicable Regulations: 29 CFR 1910.1200

1. OSHA Requires a Material Safety Data Sheet (MSDS) for Every Chemical and Hazardous Substance in the Workplace

- Chemical manufacturers must prepare them and provide them to users.
- Employers must have an easily available MSDS for each workplace chemical.

2. MSDS Hazard and Protection Information Is a Guide to Working Safely With the Chemical

- Before starting any job with a chemical, read the MSDS and follow its precautions.

3. Identification Data Tells What You're Working With

- **Chemical name, hazardous ingredients and date** MSDS was prepared
- **Worker exposure limits,** such as OSHA's Permissible Exposure Limit (PEL)
- **Manufacturer/supplier** name, address, emergency phone number

4. Physical and Chemical Changes Can Affect the Type and Degree of Hazard

- **Normal appearance and odor:** Any change could mean greater risk.
- **Boiling point/melting point:** Temperature at which the chemical changes from liquid to breathable gas or from solid to liquid–changing the hazard and needed protections
- **Vapor pressure/vapor density/evaporation rate:** Rate and ease with which the chemical evaporates or rises in air, which can increase the risk of inhaling the chemical
- **Solubility in water/specific gravity:** The chemical's ability to dissolve, sink, or float in water

5. The MSDS Identifies Fire and Explosion Risk Factors and Protections

- **Flash point:** Lowest temperature at which an ignition source (e.g., a spark) could make the substance's vapors catch fire

  –The lower the number, the greater the chance of ignition.
- **Flammable and explosive limits:** Higher and lower concentrations of vapor in the air that will catch fire or explode if they contact an ignition source
- **Firefighting:** What material to use (water, foam, etc.) to put out a fire containing this substance

6. Reactivity Data Tell How the Chemical Reacts With Other Substances

Contact with air, heat, water, or another specific chemical could cause fire or explosion, or release flammable or toxic gases.

What You'll Find on an MSDS

BEFORE STARTING ANY JOB WITH A CHEMICAL, CHECK ITS MATERIAL SAFETY DATA SHEET (MSDS) TO LEARN...

PHYSICAL AND CHEMICAL CHANGES AFFECTING THE HAZARD

- Normal appearance and odor
- Temperature–boiling point or melting point–at which its form changes
- How fast or easily it evaporates and rises in air (vapor pressure, vapor density, evaporation rate)
- If it dissolves, sinks or floats in water (solubility in water, specific gravity)

FIRE AND EXPLOSION RISKS

- Lowest temperature at which vapors catch fire (flash point)
- Highest and lowest vapor concentrations that can catch fire or explode (flammable and explosive limits)
- Firefighting instructions

REACTIVITY RISKS

- Chance of change or disintegration (stability, instability)
- Dangerous reactions to air, water, or specific chemicals (incompatibility)
- Breakdown or reactivity results (decomposition/byproducts)

EXPOSURE HEALTH RISKS

- Hazards and symptoms of inhaling, swallowing, skin, or eye contact
- Fast (acute) or gradual (chronic) appearance of health problems
- Cancer hazard
- Health conditions exposure could make worse
- First aid until medical help arrives

PRECAUTIONS TO REDUCE RISKS

- Controls such as ventilation and hygiene
- Respirators, gloves, or other personal protective equipment (PPE)
- Handling spills, leaks, or accidental release

MATERIAL SAFETY DATA SHEET QUIZ

1. Every hazardous substance in the workplace must have a material safety data sheet (MSDS).

a. True b. False

2. The highest safe amount of the chemical you can be exposed to may be shown as:

a. ASL (Absolutely Safest Level)

b. PEL (Permissible Exposure Limit)

c. LEL (Lower Exposure Limit)

3. Boiling point is important because it's the temperature at which the chemical:

a. Won't change form

b. Changes from liquid to gas, making it an inhalation hazard

c. Changes from gas to solid, making it a contact hazard

4. A chemical's flash point is:

a. The lowest temperature at which an ignition source could make its vapors catch fire

b. The temperature at which it changes from a solid to a liquid

c. The temperature at which it dissolves in water

5. It's safe to expose reactive chemicals to air, but not water.

a. True b. False

6. If the MSDS indicates a chemical is incompatible with another chemical, air, or water, you:

a. Avoid exposing the chemical to high heat

b. Avoid exposing your skin to the substance with which it's incompatible

c. Avoid exposing the chemical to the substance with which it's incompatible

7. A chemical may cause health problems if you're exposed by:

a. Inhaling or swallowing

b. Skin or eye contact

c. Both a and b

8. A chronic health problem is one that develops:

a. Immediately after exposure

b. Over a long period of time

c. After exposure to a reactive substance

9. An MSDS lists personal protective equipment (PPE), so you know what to use to:

a. Prevent chemical contact with incompatible substances

b. Avoid inhaling or making skin or eye contact with the chemical

c. Keep the chemical from catching fire or exploding

10. You should always read the MSDS's hazard and protection information before starting a job involving a chemical.

a. True b. False

When you have completed this quiz, turn it in to your supervisor.

Name: _____ **Date:** _____

BRUCE

ENTERED 9-28-04 AC

Office Use Only
Level 1 (D)
Initials TSL
Date Reviewed 9/27/04

HAZARDOUS MATERIALS
BUSINESS EMERGENCY PLAN AND INVENTORY CERTIFICATION FORM

Business Name THOR CALIFORNIA Facility # 86088/85879
Owner/Operator Name TOM POWELL Telephone 951 697 4190
Facility Address 14255 ELSWORTH / 14050 DAY ST
City MORENO VALLEY State CA Zip Code 92557

Annual Business Emergency Plan Inventory Review and Update

✓ The information contained on the annual inventory form most recently submitted to the administering agency is complete, accurate, and up to date and complies with all of the following statements:

1. There has been no change in the quantity of any hazardous material as reported in the most recently submitted annual inventory;
2. No hazardous materials subject to the inventory requirements of Chapter 6.95 H&SC are being handled that are not listed on the most recently submitted annual inventory form; **and**
3. The most recently submitted annual inventory form contains the information required by sec. 11022 of Title 42 of the United States Code. (The County/OES form 2731 meets this requirement)

___ The inventory as previously reported has changed. Attached are new inventory reporting forms for all changes.

Triennial (3 Year) Business Emergency Plan Review and Certification

___ I certify that the Business Emergency Plan has been reviewed and the information contained in it is accurate and complete as of this date _____.

___ I certify that I have reviewed the Business Emergency Plan and have updated the following items (updated items are attached):

- ___ Emergency contacts names and/or telephone numbers.
- ___ Site and/or facility map(s).
- ___ Emergency procedures.
- ___ Other Information: _____.

Notification should be made to this agency within 30 days if any of the following events occur: change of ownership; change of business name; mailing address; phone number; location; emergency contact person; 100% or more increase in the quantity of a disclosed material; or any handling of a previously undisclosed material subject to regulation. A copy of this form should be kept at the business and available for review upon request of this agency. This form can only be used if you have already submitted the most current version of the Chemical Inventory Form (OES Form 2731). If your business falls under EPCRA/SARA Title III, this form does not meet the annual inventory reporting requirements.

I certify under penalty of law that I have examined and am familiar with the information submitted in this and all attached documents, that the information provided herein is true, accurate, and complete to the best of my knowledge.

Name FRANK CORDERO Signature
Title SAFETY MANAGER Date 8-23-04 02/02

ENTERED 9-28-04 Updated

THORCalifornia

14050 Day Street Moreno Valley, CA 92553

BUSINESS EMERGENCY PLAN

Hazardous Materials

Policies and Procedures Manual

and

MSDS
(Material Safety Data Sheets)

PLANT # 3

ENTERED

Certified Unified Program Agency
Department of Environmental Health
Hazardous Materials Management Division
Hazardous Waste Generator Report Form

Facility Name: Thor Manufacturing
Address: 14050 Day St.
City: Moreno Valley Zip Code: 92557
Contact Person: Number of Employees: Telephone:

Date: 6/30/04
Inspection Routine [X] Re-inspection [ ]
Facility #: 86088

Health & Safety Code, Chapter 6.5 | California Code of Regulations, Title 22 | Riverside County Code, Title 8.60 (Ordinance 615.3)
C=Compliance, Viol. Type=Violation Type, N/A= Non-Applicable

Hazardous Waste Storage	C Yes	C No	Viol Type	N/A
200. H&SC 225195 Access for Inspection	✓			
201. 22 CCR 66265.31 Maintained and Operated to Minimize the Possibility of Fire, Explosion, or Release	✓			
202. 22 CCR 66262.34 Accumulation Time	✓			
203. 22 CCR 66262.34 (e) Satellite Accumulation				✓
204. 22CCR 66262.34 (d) (2), 66262.34 (a) (1), 66265.177 Separation of Incompatible Materials				✓
Containers				
205. 22CCR 66262.34 (d) (2), 66262.34 (a) (1), 66265.172 Compatibility of Waste with Container	✓			
206. 22CCR 66262.34 (d) (2), 66262.34 (a) (2), 66262.34 (f) Container Marking and Labeling		✓		
207. 22CCR 66262.34 (d) (2), 66262.34 (a) (1), 66265.174 Weekly Inspections	✓			
208. 22CCR 66262.34 (d) (2), 66262.34 (a) (1), 66265.171 Container Condition		✓		
209. 22CCR 66262.173 (b) Containers Not Leaking	✓			
210. 22CCR 66262.34 (d) (2), 66262.34 (a) (1), 66265.173 (a) Management of Containers (Stored Closed)	✓			
211. 22CCR 66265.176, 66262.34 (a) (1) Ignitable or Reactive Wastes Stored At Least 50 ft From Property line				✓
212. 22CCR 66262.34 (d) (2), 66262.34 (a) (3), 66265.35 Aisle Space	✓			
Aboveground Hazardous Waste Tank Systems				
213. 22CCR 66265.193 Containment of and Detection of Leaks				
214. 22CCR 66265.194 Aboveground Tanks Holding Hazardous Waste Operating Requirements				
215. 22CCR 662265.195 Inspection of Aboveground Tanks Containing Hazardous Waste				
216. 22 CCR 66265.196 Leaks, Spills, or Unfit AST's				
217. H&SC 25270.5(c) Spill Prevention Control and Counter-measure Plan Complete [Referral to RWQCB If No Plan]				
Preparedness, Prevention and Contingency Planning				
218. 22CCR 66262.34 (d) (2), 66262.34 (a) (3), 66265.32 Required Fire, Spill, & Decontamination Equipment	✓			
219. 22CCR 66262.34 (d) (2), 66262.34 (a) (3), 66265.33 Testing and Maintenance Fire, Spill, & Decontamination of Equipment	✓			
220. 22CCR 66262.34 (d) (2), 66262.34 (a) (3), 66265.34 Access to Communications or Alarms	✓			
221. 22CCR 66262.34 (d) Evacuation Plan	✓			
222. 22CCR 66262.34 (d) (2), 66262.34 (a) (3), 66265.37, 66265.56, 66265.52 (f), 66265.55 Arrangements with Local Authorities	✓			
223. 22CCR 66262.34 (d) Emergency Coordinator Listed	✓			
224. 66262.34 (a) (3), 66265.52 Emergency Response Procedures				

General Hazardous Waste Requirements	C Yes	C No	Viol Type	N/A
225. Riverside County Code Title 8.60 (Ord. 615.3) Hazardous Waste Generator Permit Fees		✓		✓
226. 22CCR 66262.12 (a) EPA ID Number CA				
227. 22CCR 66262.11 Hazardous Waste Determination		✓		
228. H&SC 25189.5(a) Disposed Treated at an Authorized Location				
229. H&SC 25201 (a), 22CCR 66270.1 Treatment/Storage/Transfer/Disposal Permit				✓
230. H&SC 25143.10 Recycling Plan Complete and Reported				✓
231. H&SC 25143.2 Excluded Recyclable Materials				✓
Records Review				
232. H&SC 25160.2, 22CCR 66262.20-66262.23 General Manifesting Requirements				
233. 22CCR66262.42 Manifesting Exception Reports				✓
234. 22CCR 66262.16, 66252.34 (a) (3) Personnel Training & Training Documents Maintained & Available	✓			
235. 22CCR66268.7 Waste Analysis				✓
236. 22CCR 67100.1-67100.11 Hazardous Waste Source Reduction & Management Review (Waste Minimization)				✓
237. 22CCR 66262.41 Biennial Reports				✓
Transportation				
238. H&SC 25163 (a), 22CCR 66262.10 Use of a Registered Transporter of Hazardous Waste				
Management of Used Oil, Oil Filters & Batteries				
239. H&SC 25250.4 Used Oil Managed Properly	✓			
240. H&SC 25160.2 Used Oil Shipment Record Keeping	✓	Service Company		
241. H&SC 25250.7 Used Oil Not Contaminated with Hazardous Waste	✓			
242. 22CCR 66266.130 Used Oil Filters	✓			
243. 22CCR 66266.81 Batteries Properly Managed	✓			
Universal Waste				
244. 40 CFR 273, 22 CCR 66273 Universal Waste Fluorescent tubes, batteries, and mercury switches				
Specific Materials				
245. H&SC 25144.6 Contaminated Rags				
246. H&SC 25143.13, 40 CFR 261 Silver Only Waste				✓
247. Other:				

Hazardous Waste: (Used oil, hydraulic), (Air compressor, oil)

The above mentioned violations shall be corrected within ____days

Specialist: Bruce Bailey
Received By: X Robert Gutierrez
Print Name: X
Title: X Safety Supervisor

DEHHEH-022/Rev 7/2002

Offices:
Bruce Bailey

Indio
(760) 863-8976
47-923 Oasis Rd Rm E4
Indio, CA 92201

Hemet
(909) 766-6524
800 S. Sanderson Ave
Hemet, CA 92545

Distribution: White-Office, Canary-Owner/Operator, Pink-Specialist

Murrieta
(909) 461-0634
38740 Sky Canyon Dr
Murrieta, CA 92563

Riverside
(909) 358-5055
4065 County Circle Dr
Riverside, CA 92503

Certified Unified Program Agency
County of Riverside Community Health Agency
Department of Environmental Health
Hazardous Materials Management Division

SUPPLEMENTAL REPORT

Reference Date 6/30/04

Name Thor Manufacturing

Address 14050 Day St., Moreno Valley

Re: Hazardous Waste Facility # 86088

Remarks:

206., 208, 227., 232.)
238.

Old paint cans and other 1 gal. or smaller containers stored in the cut poly drum and cardboard box shall be identified as a empty containers or handled as a Hazardous Waste. The Mineral Spirit 55 gallon drum is 1/4 full; if the mineral spirits have no intended use, provide proper disposal documentation.
Keep disposal documentation on site for 3 years.
Correction Date: 7/29/04

Specialist [signature] Received By X [signature]

THORCalifornia

14050 Day Street Moreno Valley, CA 92553

BUSINESS EMERGENCY PLAN

Hazardous Materials

Policies and Procedures Manual

and

MSDS
(Material Safety Data Sheets)

PLANT # 3

Hazardous Materials

Policies and Procedures

These are the policies and procedures for handling all Hazardous Materials and Chemicals.

Our E.P.A. #CAL000104687

Policies:

1. Any and all chemicals must have an MSDS sheet with it. A copy must be given to Safety Manager, Frank Cordero and Safety Coordinator, Robert Gutierrez. Robert will then have copies made and have them installed in MSDS Manuals. The MSDS Manuals and the **Business Emergency Plan** are located in:
2.
   A. The Master Copy is in the Safety Office
   B. The Plant Three Tool Crib

   No MSDS sheets shall be removed without prior approval from the Safety Manager, Frank Cordero, and Safety Coordinator, Robert Gutierrez.

3. All MSDS sheets are available for viewing by employees during regular working business hours.

4. All MSDS controls must be followed, i.e. protective equipment, over exposure procedures and proper handling and disposal, etc., all of this and anything else must be followed to the exact procedure, according to how they are written in the MSDS sheet.

5. **Employees will receive yearly refresher training covering the following items:**

   - Review the Business Emergency Plan.
   - Review the proper handling and disposal of chemicals onsite.
   - Review the proper use of safety equipment onsite.

6. Any employee, who orders any chemicals, no matter what it may be, will be held responsible for the MSDS sheets. There responsibility will include making sure that Frank and Robert have copies of any new MSDS sheets. If this policy is not carried out to the fullest ability the employee will be disciplined accordingly.

7. Once a decision has been made to discontinue the use of any chemical in the facility, a form must be completed and given to Frank Cordero so that he can purge all books. This very important due to CAL-OSHA standards and our Hazardous Chemical plan.

8. MSDS sheets must be checked bi-monthly and purged of any chemicals that are no longer being used in our facility. If CAL-OSHA comes in for an inspection and asks to see our MSDS sheets and sees a chemical that requires special handling but we no longer have the chemical in our facility, we will be fined a substantial amount.

9. All drums of any type of chemical, full or empty, or when not in use, must be kept in our designated Hazard Material area. This is located at the north end of the Dock area, near door #15 of the material staging area.

10. Any waste that is generated has exactly 90 days to be disposed of from the first day it is generated.

11. If there should ever be any large spill, containment is absolute and...should be contacted immediately so they can assist in any way possible.
    Contact Name:
    Robert Roth at (909)-444-9500
    General Environmental Management, Inc
    Hazardous Waste Management
    3191 Temple Ave Ste 250
    Pomona, CA 91768

12. All manifest tracking and containment information must be kept for ten years from the first original ship-out date.

13. The blue copy of the Uniform Hazardous Waste Manifest must be mailed to:
    DTSC
    P.O. Box 400
    Sacramento, CA. 95812-0400
    This copy must be mailed within 30 days of receipt of the manifest.

14. All copies of any paperwork that is generated due to a pick-up of waste must file all forms in our manifest book located in the Safety Manager's office. No copies are ever to be removed from the book without the Safety Managers knowledge.

15. When calling for a regular pick-up you must indicate whether you will need a waste absorbent drum and a rag drum. Also, if there will be any other drums to be picked up and what there contents are.

Procedures

Hazardous Materials:

1. **Oxygen**
2. **Acetylene**

1. Accidental Release Measures: Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with inert gas prior to attempting repairs. If leak is in container or container valve, contact the appropriate emergency telephone number for BOC 1(800) 424-9300.

1. **Safe Clean Solvent**
2. **Antifreeze**
3. **Adhesives**
4. **Clear Thin - Spread Adhesive**

1. **Spill:** If there is any type of spill, evacuate all personnel from affected area. Use appropriate protective equipment. Waste absorbent material is to be applied. All used absorbent materials are then placed in our waste absorbent can. Cement is to be cleaned completely with no residue to be left behind.

2. **Punctured Drum:** Drums are to be placed in the drum over pack as quickly as possible. Spill is then to be handled accordingly. See procedure number 1.

3. **Arrival:** When any chemical in a drum arrives it must be placed in the Hazardous Material areas immediately, it is not to be left anywhere in the facility other than the designated area.

4. **Departure:** When drums are being removed from the facility there must be an employee there during that time to monitor the Pick-Up. Also, to ensure that the proper drums are being removed.

5. **Usage:** When a drum is in use there must be a catch pan underneath it at all times while in use.

6. **Moving:** When one person is moving a drum he must use the *Drum Dolly* that is provided. Forklift drivers are to always use the *Drum Grab* to move any of the drums.

7. **Storage:** All drums are to remain in the Hazardous Material area at all times, unless being used. Drums must always be covered and kept separated, full with fulls, and empties with empties. The area is clearly marked and all procedures are to be continuously followed.

8. **Weather Conditions:** Drums are never to be left in the rain for any reason. Once they are emptied they must be returned to the Hazardous Material Area.

County of Riverside Community Health Agency • Department of Environmental Health
Hazardous Materials Management Division

Change of Status Form

Mandatory Information Must Be Completed For All Change Of Status Request.

Date: 7/19/04 Facility I.D. #: 86088 ☐ New Specialist: [illegible]

ENTER INFORMATION TO BE CHANGED

Type	Former/OOB Information	Current
DBA/Facility Name	Maestro Products	Thor Manufacturing
Facility Address	14050 Day St.	same
	Moreno Valley 92557	
Facility Phone Number		
Mail Address		same
		☐ Same
Owner	Maestro Products	Thor Manufacturing
Owner Phone Number		
Jurisdiction: ☐ Banning ☐ Corona ☐ Riverside ☐ All Other/Unincorporated		

Type of Change Requested (check all that apply)

- ☐ New Facility
- ☐ New Permit
- ☒ OOB (Out of Business)
- ☐ Exempt
- ☒ Billing Invoice Needed
- ☐ Mail : ___ UST Application
  ___ Generator Application
  ___ Business Emergency Plan Packet
  ☐ Completed by Clerical _____(initial)
- ☐ Generator
  Number of Employees N/A
- ☒ Disclosure
  Level I
  Update _____
- ☐ Tanks
  Number of tanks _____
  Tank I.D. # _____
  Tank Contents _____
  Tank Size _____
- ☐ Tank(s) Added
- ☐ Tank(s) Removed
- ☐ Plan Check #_____
- ☐ Cal-ARP
- ☐ Tiered Permitting

Comments: _____

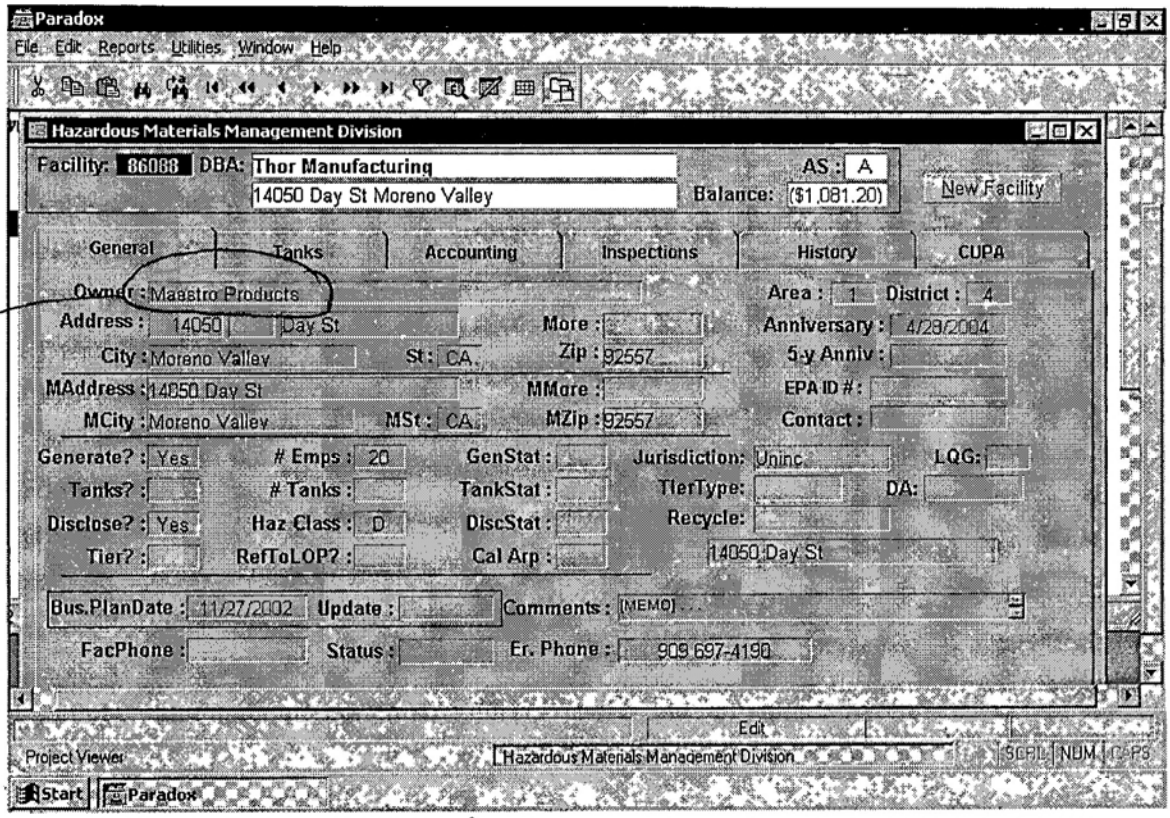
Approved 9/28/04

☐ New Owner ☐ Change of Address Only ☐ Facility Moved ☐ Bulk Liquid Co2

Forward form for review and initial by the following sequence after completion.

1) Supervisor [illegible] Initial 7-20-04 Date 2) Clerical _____ Initial _____ Date 3) Accounting TS Initial 7/20/04 Date

X(5:30 – 8:30)X
X9:30



Robert Gutierez
: Mineral X spirits

+ Robert 1:30
656-3185
ext 4045

(6/23/04)

Doug Kraus.
New owner since 1/03.
Dont have hzg waste or gen.

COUNTY OF RIVERSIDE • COMMUNITY HEALTH AGENCY

DEPARTMENT OF ENVIRONMENTAL HEALTH

Certified Unified Program Agency

HAZARDOUS MATERIALS MANAGEMENT PERMIT

NON-TRANSFERABLE

Owner: Maestro Products
DBA: Thor Manufacturing
Mailing Address: 14050 Day St
City and State: Moreno Valley, CA 92557

EPA ID#:
Facility Number: 86088
Expiration Date: 4/28/2004

Area: 1 District: 4

Type of Business: Hazardous Materials Facility Facility Location: 14050 Day St
City: Moreno Valley

Hazardous Waste Generator – County Ordinance No. 615
Hazardous Materials Disclosure – County Ordinance No. 651

Wednesday, April 23, 2003
Date Issued

Gary L. Root, Director
Department of Environmental Health

This permit is granted for the business indicated on the condition that the business will comply with the laws, ordinances, and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of Riverside pertaining to the above mentioned business. This permit serves as a receipt for payment of fees for the above-listed programs. **This permit must be renewed on the Expiration Date indicated above. This permit may be suspended or revoked for cause. Inspection of this business may be conducted by a duly authorized representative of the Department of Environmental Health.**

Western County Office
4065 County Circle Dr.
Riverside, CA 92503
(909) 358-5055

Desert County Office
47-923 Oasis Street E4
Indio, CA 92201
(760) 863-8976

Central County Office
800 South Sanderson Avenue
Hemet, CA 92545
(909) 766-6524

POST IN A CONSPICUOUS PLACE

Gmail

Samantha Weis <sw@weisenviro.com>

Building and Safety Records Request

Records <records@rivco.org> Mon, Dec 27, 2021 at 7:54 AM
To: "sw@weisenviro.com" <sw@weisenviro.com>

Good morning Samantha,

Thank you for your email.

After a thorough search of our records, we are unable to locate any building records for this address or APN.

Also, this address is now located in the City of Moreno Valley's jurisdiction. You may want to contact their Building Department at (951)413-3350 to check for any permits they may have issued.

If you have any questions, please contact us @ (951) 955-2017 or with a reply email.

Thank you,

Anthony

TLMA Records

Planning & Building and Safety

County of Riverside

(951) 955-2017

records@rivco.org

Tell Us How We Are Doing!

Click on the link below to fill out our Customer Satisfaction Survey

http://www.rctlma.org/online/content/forms/TLMA_cust_svc_survey2.pdf

---

From: sw@weisenviro.com <sw@weisenviro.com>
Sent: Thursday, December 23, 2021 5:16 PM
To: Records <records@RIVCO.ORG>
Cc: sw@weisenviro.com
Subject: Building and Safety Records Request

Requestor's Name:	Samantha Weis
Company:	Weis Environmental LLC
Requestor's Phone No (format example 951-000-0000):	7606726339
Current Mailing Address:	1938 Kellogg Avenue, Suite 116
City:	Carlsbad
State:	California
Zip:	92008
E-Mail:	sw@weisenviro.com
ADDRESS TO BE RESEARCHED:	14050 Day Street
ASSESSOR'S PARCEL NUMBER (APN) (format example 123-456-789):	297-130-036
Year Built:	
REQUESTING ALL PERMITS:	Yes
If not please specify type of permit(s) below:	
Additional Comments:	

Gmail

Samantha Weis <sw@weisenviro.com>

record request #12273 (APN 297-130-036)

Le, Luan (Murrieta DEH) <LuanLe@rivco.org> Wed, Jan 5, 2022 at 3:45 PM
To: "sw@weisenviro.com" <sw@weisenviro.com>

Hello,

No septic or well record was found for the above parcel.

Sincerely,

Luan Le

Registered Environmental Health Specialist III

Riverside County Department of Environmental Health

Land Use & Water Resources Program

3880 Lemon Street, Ste 200, Riverside, CA 92501

Phone #: 951-955-8980

Fax #: 951-955-8988

E-mail: LuanLe@rivco.org

www.rivcoeh.org

YouTube

"No one's better than you, but you're better than nobody"

FACILITY MAP

Lakin Tire West LLC – Facility Diagram
14050 Day Street, Moreno Valley, CA

FROG ENVIRONMENTAL
Your Cleaner Business is Our Environment

- Building
- Paved Area
- Covered Area
- Neighboring Business
- Landscaped Area/Bio-swale
- Unpaved Area
- Storage Tank
- Sump Pump Inlet

N

POTENTIAL POLLUTANT DIAGRAM

Lakin Tire West LLC – Potential Pollutants Diagram
14050 Day Street Moreno Valley, CA 92553

FROG ENVIRONMENTAL
Your Cleaner Business is Our Environment

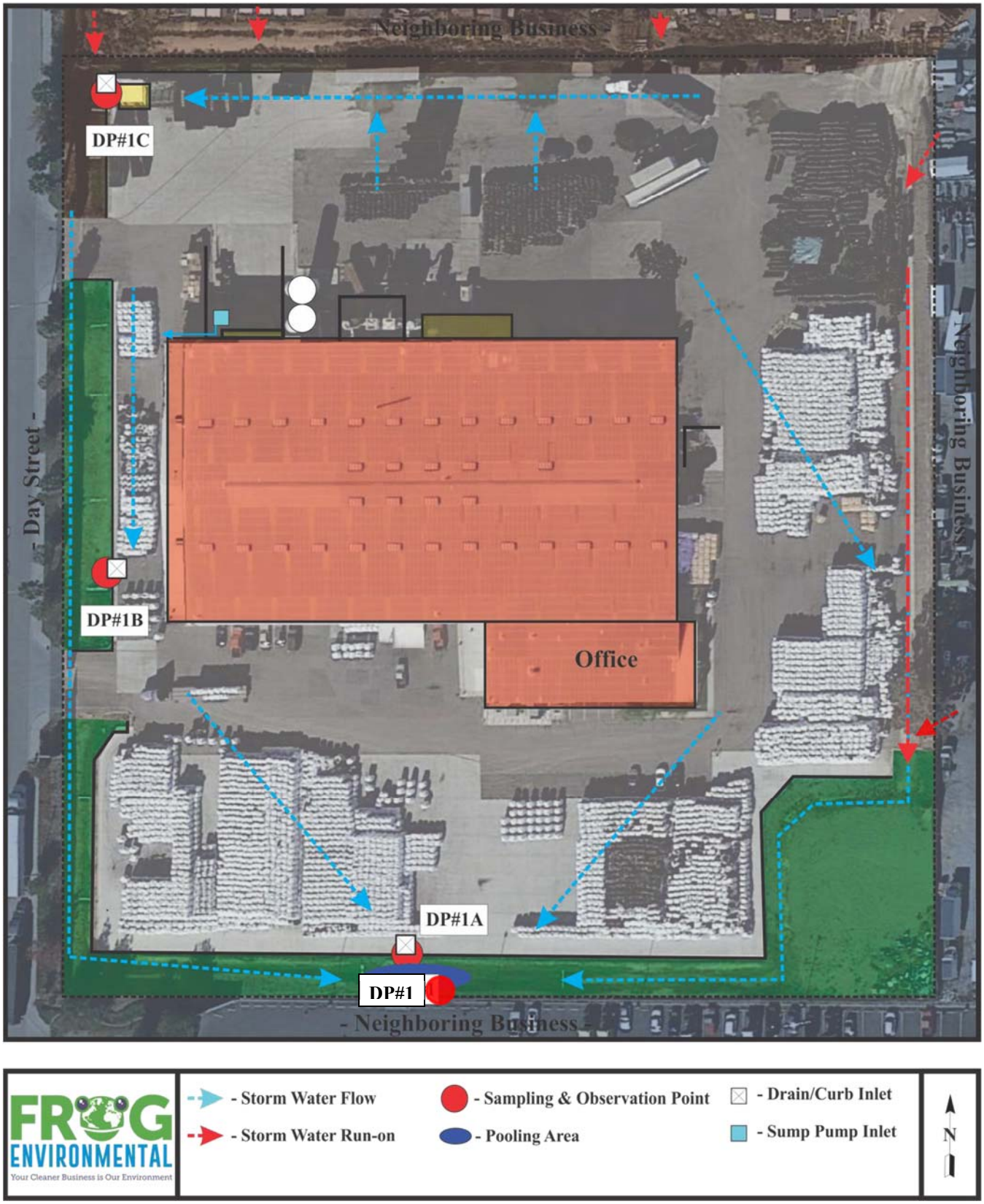
#1: Indoor Processing	#5: Hazardous Materials
#2: Indoor Storage	#6: Roll-offs
#3: Outdoor Storage	#7: Facility Support Equipment
#4: Loading / Unloading	#8: Operational Equipment

*Although not shown, Roll-offs and Operational Equipment occur throughout the Facility.

N

MONITORING DIAGRAM

Lakin Tire West LLC – Monitoring Diagram
14050 Day Street, Moreno Valley, CA 92553



July 23, 2021

Fee Statement
Application Id # 539093

Facility/Site

BAS Recycling
14050 Day Street 14050 Day Str
Moreno Valley CA 92553

Thank you for submitting the Permit Registration Documents (PRDs) for the facility/site referenced above. The application fee for this submittal is: $1,474.00

The application is considered incomplete until all PRDs, including the application fee, are received. Only after all PRDs are received, will the WDID Number be assigned. Permit coverage begins once the WDID Number is assigned to the facility/site.

Note: The submitted application will be automatically returned as incomplete if all PRDs, including the application fee and the original signed electronic authorization form, are not received within 60 days from the date of submission.

Please make checks payable to: SWRCB

Mail this Fee Statement and $1,474.00 to:

Regular Mailing Address:
SWRCB
Storm Water Section
PO Box 1977
Sacramento, CA 95812-1977

Overnight Mailing Address:
SWRCB
Storm Water Section
1001 I Street – 15th Floor
Sacramento, CA 95814

If you have questions or want to check on the status of the application, email us at stormwater@waterboards.ca.gov or call 1-866-563-3107.

Thank You,
Storm Water Help Desk

Santa Ana Regional Water Quality Control Board

NOTICE OF INTENT

SECTOR-SPECIFIC GENERAL PERMIT FOR STORM WATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES FROM SCRAP METAL RECYCLING FACILITIES WITH THE SANTA ANA REGION (ORDER No. R8-2012-0012)

WDID:

Operator Information

Type: Private Business

Name: Lakin Tire West LLC

Address: 15305 Spring Avenue

Address 2:

City/State/Zip: Santa Fe Springs CA 90670

Contact Name: Florin Ardelean

Title: VP Operations

Phone #: 951-214-6590

Email: fardelean@basrecycling.com

Facility Information

Site Name: BAS Recycling

Address: 14050 Day Street 14050 Day Street

City/State/Zip: Moreno Valley CA 92553

County: Riverside

Latitude: 33.91424 Longitude: -117.27808

Contact Name: Florin Ardelean

Title: VP Operations

Site Phone #: 951-214-6590

Email: fardelean@basrecycling.com

SIC Code(s)

1. 5093 Scrap and Waste Materials
2.
3.

Additional Information

Receiving Water: Santa Ana River

Qualified SWPPP Developer: Jacqueline McMillen

Certification #: SM-QSD-130

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I am also aware that my user ID and password constitute my electronic signature and any information I indicate I am electronically certifying contains my signature. I understand that my electronic signature is the legal equivalent of my handwritten signature. My signature on this form certifies that my electronic signature is for my own use, that I will keep it confidential, and that I will not delegate or share it with any other person. Should I wish to delegate such authority, I will do so formally in writing and electronically notify the State Water Board using SMARTS2 of such delegation within 10 days of the delegation. I further certify that I will protect my electronic signature from unauthorized use, and that I will contact the State Water Board, within two business days of discovery, if I suspect that my electronic signature has been lost, stolen, or otherwise compromised.

Certification

Name David Heryford **Date:** July 23, 2021

Title: Regional Network Planner

Attachments Meta Data Information:

Attachment ID	File Name	File Description	File Hash	File Size	Date Attached	Attachment Type
2937127	Lakin Tire West LLC - SWPPP (July 2021)		d55cdcf63236585145fd56cb1d1e1cc57bc46c412fc2e1a8fea6e95a98d0b5	3506161	2021-07-23 14:01:24.0	SWPPP
2937128	Lakin Tire West LLC - Site Maps (July 2021)		50eb7c58c7c72331ab8ddddaa592751edec369dd8b9494fde1fce525d04a1a	657167	2021-07-23 14:01:24.0	Facility/Site Map

*** Does your facility storm water flow to one or more TMDL water bodies or watersheds listed in Attachment E? Not Selected**

Notice of Termination

GAVIN NEWSOM
GOVERNOR

JARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

NOT ID: 546591 **WDID:** 8 33MR000039 **Permit Type:** Region 8 - Scrap Metal Permit

Operator Information:

Organization Name: BAS Recycling Inc

Street Address: 14050 Day Street

City/ State/ Zip: Moreno Valley CA 92553

Name:

Title:

Phone: Email:

Basis of Termination:

☐ **Closed Facility: The facility is closed and all closure, moving and clean-up activities are complete.**

Date of Closure:

Are you moving to a new location in California?

☐ Yes ☐ No

If yes, start date at new location:

Will you file new NEC or NOI?

☐ Yes ☐ No

New Facility Information:

Business Name:

Street Address:

City/ State/ Zip:

Name:

Title:

Phone: Email:

NOT ID: 546591 **WDID:** 8 33MR000039 **Permit Type:** Region 8 - Scrap Metal Permit

☐ **No Exposure Certification. All industrial activities are carried out under a roof without exposure.**

☐ **No Discharge. There is no discharge to the MS4. There is no discharge because:**

- ☐ There is no discharge to the MS4.
- ☐ There is no discharge to surface waters.
- ☐ All storm water is retained on site.

☒ **New Operator/Owner:**

Date facility/site was transferred to new operator/owner:

Have you notified the new operator/owner of the storm water NPDES permit requirements?

☒ Yes ☐ No

Business Name: Lakin Tire West LLC

Street Address: 15305 Spring Ave

City/ State/ Zip: Santa Fe Springs CA 90670

Name:

Title:

Phone: 562-802-2752 Email: randy@lakintire.com

☐ **Individual Permit. Individual permit has been obtained for the facility.**

☐ **Other:**

Explanation of Basis of Termination:

NOT ID: 546591 **WDID:** 8 33MR000039 **Permit Type:** Region 8 - Scrap Metal Permit

Certification:

Name: Florin Ardelean

Date: August 18, 2021

Title: Plant Manager

Attachments Meta Data Information:

Attachment ID	File Name	File Description	File Hash	File Size	Date Attached	Attachment Type

Approved Date: July 11, 2012

Florin Ardelean
BAS Recycling Inc
14050 Day Street
Moreno Valley, CA 92553

RECEIPT OF YOUR NOTICE OF INTENT (NOI)

The State Water Resources Control Board has received and processed your NOI to comply with the terms of the Sector-Specific General Permit for Storm Water Runoff Associated with Industrial Activities from Scrap Metal Recycling Facilities within the Santa Ana Region. Accordingly, you are required to comply with the permit requirements.

The Waste Discharger Identification (WDID) number is: **8 33MR000039 .** Please use this number in any future communication regarding this permit.

	FACILITY DESCRIPTION
OPERATOR:	BAS Recycling Inc
FACILITY INFORMATION:	BAS Recycling Inc 14050 Day Street Moreno Valley, CA 92553
COUNTY:	Riverside
SIC/NAIC CODES:	5093

Upon cessation of industrial activities or if the ownership changes, you are required to submit a Notice of Termination (NOT) electronically to the Santa Ana Regional Water Quality Control Board. Until a NOT is filed, you will continue and are responsible to pay the annual fee invoiced each July.

If you have any questions regarding permit requirements, please contact your Regional Water Board at 951-782-4130 **.** Please visit the storm water web site at http://www.waterboards.ca.gov/santaana/water_issues/programs/stormwater/index.shtml to view related storm water scrap metal information.

Sincerely,

Santa Ana Regional Water Quality Control Board

Storm Water Pollution Prevention Plan

Lakin Tire West LLC
BAS Recycling Facility
14050 Day Street
Moreno Valley, CA 92553

WDID #: See Notice of Intent

July 2021 Plan

Revised By:

NV5
ALTA
ENVIRONMENTAL

Table of Contents

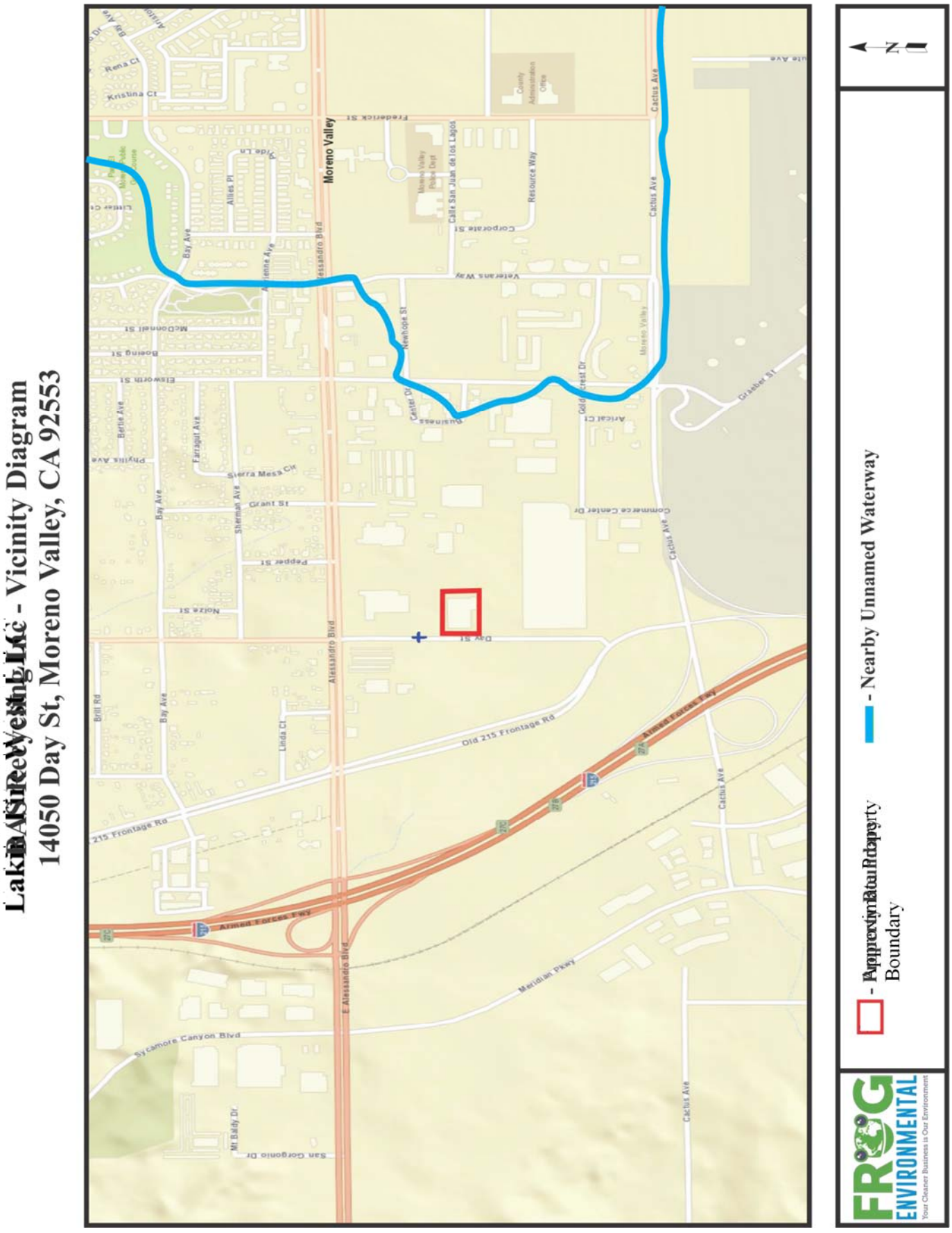
Section 1 – Facility Information

Section 2 – Potential Pollutant Sources

Section 3 – Preventative and Mitigative Control Measures (BMPs)

Section 4 – Monitoring & Reporting Program

VICINITY MAP



FACILITY MAP

Lakin Tire West LLC – Facility Diagram
14050 Day Street, Moreno Valley, CA

FROG ENVIRONMENTAL
Your Cleaner Business is Our Environment

- Building
- Paved Area
- Covered Area
- Neighboring Business
- Landscaped Area/Bio-swale
- Unpaved Area
- Storage Tank
- Sump Pump Inlet

N

RESPONSIBILITY

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

(Signature) 7/23/2021 (Date)

Florin Ardelean, Vice President of Operations – Lakin Tire West LLC

POLLUTION PREVENTION TEAM

Name and Title	Position	Responsibilities
Jacqueline McMillen, PE, QISP/ToR NV5	Scrap Metal Qualified SWPPP Developer (SM-QSD/P)	Creates and updates the Storm Water Pollution Prevention Plan (SWPPP) when needed; Provides training to interpret and implement the SWPPP and recommends corrective actions when needed. Conducts or oversees inspections and recommends corrective actions when needed;
Florin Ardelean,Vice President of Operations Lakin Tire West LLC	Facility Contact Certified Person for Sample Collection	Assures the implementation of good housekeeping practices; Conducts maintaining record-keeping and periodic reviews of employee performance. Conducts runoff sampling of storm water dischargesfrom each sample collection point on site; Assures sample collection, preservation, and handling techniques and protocols are followed; Coordinates sample delivery to a certified laboratory.
TBD	Scrap Metal Qualified SWPPP Practitioner (SM-QSP) Certified Person for Sample Collection	Assures the implementation of the SWPPP and monitoring program; Conducts or oversees inspections and recommends corrective actions when needed; Maintains the SWPPP and other permit requirements that may arise in day-to-day permit management. Conducts runoff sampling of storm water dischargesfrom each sample collection point on site; Assures sample collection, preservation, and handling techniques and protocols are followed; Coordinates sample delivery to a certified laboratory.

INTRODUCTION

This Storm Water Pollution Prevention Plan (**SWPPP**) should have two objectives:

1) **To identify potential pollutant sources, good housekeeping practices, and employee training programs.**

2) **To describe and ensure the use of control measures to minimize and control the discharges of pollutants to storm water conveyance systems.**

This plan explains how we are meeting these requirements and demonstrates how we will continue to do so as long as we are a part of the storm water program.

Lakin Tire West LLC owns and operates the BAS Recycling Facility (Facility) located at 14050 Day Street, in Moreno Valley, California. Our industrial work begins with unprocessed tires unloading in the north portion of the facility. Tires are sorted by type and size and then brought into the building for processing. Some of the processed crumb rubber is be used in-house to make a variety of products (e.g. playground surfaces, colorized mulch) and the rest is loaded into super sacksand temporarily stored in the southern portion of the facility before being sold and removed from the property. Our facility is surrounded by neighboring businesses, and Day Street runs alongside our western perimeter. The site is approximately 85% impervious with roughly 40% of the impervious area consisting of buildings or covered areas. The remaining 15% of the facility is comprised of landscaped or unpaved areas.

Water on the property will discharge to a single point at a curb drain located outside the southern fence line of the facility identified as DP#1. All water on the western half of the facility will flow south along the perimeter. Water on the eastern and western halves of the facility are designed to flow along a bioswale before discharging out from DP#1. Storm water from neighboring businesses does flow onto the facility and ultimately commingles with the storm water discharge. Storm water sampling locations also include DP#1A, DP#1B, and DP#1C to characterize on-site storm water runoff quality entering the LID BMPs and are not considered compliance samples. These sampling locations represent the property's main industrial activities while minimizing impact from neighboring run-on. Observations and sampling will be performed at each of these locations. Any water discharging from the facility enters the municipal storm drain system, which then flows into the Santa Ana River and, ultimately, out to the Pacific Ocean.

The Facility operates as a recycler of old rubber tires. Founded in 1989, we are one of the top 10 premier tire recyclers nationwide. We have grown into the industry leader and the #1 tire recycler in Southern California by delivering the highest quality products possible, produced by blending state-of-the-art equipment with our cryogenictechnology.

We make every effort to control pollutants at our facility by following the guidelines outlined in this Plan. The current control measures are effective in reducing storm water pollution and are periodically evaluated to ensure that we maintain compliance with the Permit.

POTENTIAL POLLUTANT DIAGRAM

Lakin Tire West LLC – Potential Pollutants Diagram
14050 Day Street Moreno Valley, CA 92553

FROG ENVIRONMENTAL
Your Cleaner Business is Our Environment

#1: Indoor Processing	#5: Hazardous Materials
#2: Indoor Storage	#6: Roll-offs
#3: Outdoor Storage	#7: Facility Support Equipment
#4: Loading / Unloading	#8: Operational Equipment

*Although not shown, Roll-offs and Operational Equipment occur throughout the Facility.

N

DESCRIPTION OF POTENTIAL POLLUTANTS

Potential storm water pollutants located on site are primarily Oil & Grease (O&G), Total Petroleum Hydrocarbons (TPH), Zinc, Aluminum, Iron, and Chemical Oxygen Demand (COD). Additionally, there is the potential for altered pH and increased specific conductance and turbidity. The sources of these pollutants are listed below. Section 3 lists the **Best Management Practices** (**BMPs**) that are currently in place to control these potential pollutants. The numbers below correspond with the Potential Pollutant Diagram on the previous page.

#1 – Indoor Processing

All industrial activity takes place in the Indoor Processing area, which is located in the northeastern portion of the large building on site. Old tires and other rubber materials are delivered to the area and processed into crumb rubber through a process of cryogenicseparation and ambient grinding of rubber from scrap tires, shoe rubber, and other forms of rubber. Pollutants from materials and equipment, including suspended solids and oil and grease from moving parts, Zinc from tires, and any subsequent tracking from indoors to surfaces with exposure are potential pollutants in the area.

#2 – Indoor Storage

Finished products and raw materials (old tires and other rubber products), are stored and staged in areas along the southern and western perimeters inside of the large building. Occasionally, minor forklift maintenance and repairs may be conducted in the area by an outside company. The potential pollutant sources are suspended solids, debris, and materials in the areas, and any subsequent tracking to other areas of the facility.

#3 – Outdoor Storage

Finished products are primarily stored in designated areas throughout the facility as they await shipment, and raw materials (old tires) are kept in the north east lots. Suspended solids, Zinc, Iron, and Aluminum/Copper on the surface of old tires, along with any tracking to other areas of the facility, are potential pollutants from the Outdoor Storage areas.

#4 – Loading/Unloading

Loading and unloading activities are performed at the loading dock along the northwestern perimeter of the large building. Materials can also be loaded and unloaded near the Outdoor Storage areas in the north and east. Zinc, Iron, Aluminum, and Copper from tires, trucks, and Operational Equipment, leaks or spills, and any subsequent tracking are potential pollutants from loading and unloading.

#5 – Hazardous Materials

Hazardous Materials are secondarily contained underneath the covered area in the northwestern corner of the facility, although the liquid nitrogen tanks are situated in a designated area directly east and adjacent to the loading dock. The potential pollutant sources are from any spills or leaks occurring in the areas and from any surface residues that could potentially contact storm water.

#6 – Roll-offs

There is one Roll-off located east of the baghouse system found along the northern perimeter of the large building, east of the liquid nitrogen tanks, which is used for the disposal of compacted baghouse discharge. Additional Roll-offs can be found west of the loading dock as well as in the northeastern corner of the site but can be staged wherever they are needed throughout the facility. The potential pollutant sources are dirt on the outsides of the Roll- offs, any debris or scrap materials in the areas, and pollutants leaching out of the bottom of theRoll-offs.

#7 – Facility Support Equipment

There are silos along the northern perimeter of the Indoor Processing Area building which contain the baghouse system. The compactor located just east of the baghouse system serves to compact the baghouse discharge into a Roll-off, and a compressor can be found underneath the covered area situated along the southern perimeter of the large building. Poorly maintained equipment and resulting leaks are the potential pollutant concerns from the Facility Support Equipment.

#7 – Operational Equipment

Operational Equipment refers to our forklifts and other machinery and equipment used throughout the facility. The primary concern from the Operational Equipment is tracking materials from inside the facility to exposed areas of the facility and poorly maintained equipment.

SIGNIFICANT MATERIALS LIST

The table below shows the significant materials that are stored at the Facility. These materials are necessary for our daily operations. *Please note that these figures are intended to convey an approximation for the estimated amounts on site and should not be considered as absolute maximums.*

Material	Amount
Rubber	Approximately 1,500 tons per month; quantity and usage vary.
Liquid Nitrogen	Approximately 20,000 gallons per day; quantity and usage vary.
Rubber Pigments	Approximately 500 gallons per month; quantity and usage vary.
Binders	Approximately 1,000 gallons per month; quantity and usage vary.
Diesel	Approximately 55 gallons per month; quantity and usage vary.
Hydraulic Fluid	Approximately 55 gallons per month; quantity and usage vary.
Waste Oil	Approximately 55 gallons every six months; quantity and usage vary.

BEST MANAGEMENT PRACTICES TO CONTROL POTENTIAL POLLUTANTS

This section contains the BMPs currently implemented to control pollutants at our facility. General BMPs are implemented for **all** potential pollutant sources, and individual BMPs are unique to their corresponding potential pollutant source.

General BMPs to Control Potential Pollutants

Preventative Measures

- The facility is paved in order to facilitate the cleaning and monitoring of storm water and non-storm water discharges and minimize erosion.

- Industrial activity is performed indoors and out of storm water exposure to the greatest extent practicable.

- The facility maintains excellent housekeeping procedures. Housekeeping is performed in all areas of our facility twice per day with a motorized sweeper.

- Hazardous materials are stored underneath a covered area and secondarily containedwithin a concrete berm, and all containers on site are labeled with their contents.

- The facility maintains an inventory list of materials and hazardous fluids used on site that is evaluated on a monthly basis, at a minimum.

- There are absorbents kept on hand in all areas of the facility to clean any small leaks or spills. The used absorbent materials are disposed of in accordance with applicable local, state, and federal regulations.

- All employees are trained regularly (annually, at a minimum) regarding the importance of preventing storm water pollution, and new employees are trained within 30 days of employment. This training is documented in the training section.

- Management routinely reviews the work being performed by employees. Inspections and records, sampling results, and housekeeping procedures are reviewed and, if necessary, new BMPs are developed and implemented. These are documented in the additional BMPs sections.

Mitigative Measures

- The perimeter of the facility, except for the eastern side, has a large landscaped swale which directs water towards the single discharge point.

- BAS uses screen wattles to create check dams within the swales. These wattles will be strategically placed in several areas within the swales to create multiple detention/sedimentation mini-basins. By creating these mini-basins, the storm water runoff velocity will be slowed and sedimentation subsequently improved.

- Flocculant dispersing socks are strategically placed in the flow lines of the swales to promote sedimentation.

Additional Measures

- As needed, new BMPs will be developed and implemented and dates documented.

Additional BMP	Implementation Date
Installed curb and two additional filtered drain inlets along eastern and northern portions of vegetated swale.	04/13/2015
Vacuumed out vegetated swale pooling area once per month and prior to rain events.	04/13/2015
Sweep immediate area along Day Street 1x per week and document in Sweep Log.	04/13/2015

Individual BMPs to Control Potential Pollutants

#1 – Indoor Processing

- All general BMPs are in place.

Existing Structural BMPs

- The Indoor Processing area is enclosed inside a building.

Existing Non-Structural BMPs

- Industrial activity occurs indoors and out of storm water exposure.
- Once the tires enter the machinery for processing, the system is enclosed.
- The Indoor Processing Area, including the entrances and exits, are closely monitored for residues and tracking to areas with exposure. The ground is inspected as equipment and vehicles are moved in and out of the area as well. If any tracking is detected, the area is cleaned immediately.
- Absorbents are stored in close proximity in the event leaks or spills occur and to ensure a rapid response to spill management.

Additional BMPs

- As needed, new BMPs will be developed and implement and dates documented.

Additional BMP	Implementation Date

#2 – Indoor Storage

- All general BMPs are in place.

Existing Structural BMPs

- The Indoor Storage areas are enclosed inside a building.

Existing Non-Structural BMPs

- Storage is maintained at the lowest level possible. When production is slow, materials that are stored are evaluated as to whether they have any value. Storage that is no longer needed is disposed of within regulations.
- As storage items and Operational Equipment move in and out of the areas, the ground is inspected for fresh residues and tracking and cleaned as needed.
- Maintenance and repair activities are performed by trained personnel under cover and out of storm water exposure.
- Fluids necessary for repairs are maintained at the minimal amount. Waste fluids are removed from the facility by an outside company and disposed of in accordance with applicable regulations.
- Equipment is inspected prior to use. Leaking or malfunctioning equipment is removed from service and repaired.
- Upon work completion, and as forklifts are moved in and out of the area, the ground is inspected for fresh residues and tracking and cleaned as needed.
- Absorbents are stored in close proximity in the event leaks or spills occur and to ensure a rapid response to spill management.

Additional BMPs

- As needed, new BMPs will be developed and implemented and dates documented.

Additional BMP	Implementation Date

#3 – Outdoor Storage

- All general BMPs are in place.

Existing Structural BMPs

- There are no individual structural BMPs.

Existing Non-Structural BMPs

- Raw material stockpiles are processed prior to rain events to minimize material exposed to storm water. Material that cannot be processes prior to a storm event is covered with a secured tarp.
- Finished products stored outdoors are contained inside bags and elevated on pallets.
- Storage is maintained at the lowest level possible. When production is slow, materials that are stored are evaluated as to whether they have any value. Storage that is no longer needed is disposed of within regulations.
- As storage items and Operational Equipment move in and out of the areas, the ground is inspected for fresh residues and tracking and cleaned as needed.
- The areas are regularly swept to remove any residues from surfaces and are maintained in a clean and organized manner.

Additional BMPs

- As needed, new BMPs will be developed and implemented and dates documented.

Additional BMP	Implementation Date
Totes with paint residues are capped when storedoutdoors.	04/13/2015
Totes with paint residues are moved indoors prior to rain events.	04/13/2015
Super sacks are wrapped in plastic overwrap.	04/13/2015

#4 – Loading/Unloading

- All general BMPs are in place.

Existing Structural BMPs

- There are no individual structural BMPs.

Existing Non-Structural BMPs

- The Loading/Unloading process is overseen by trained employees, and personnel follow specific protocols to minimize or eliminate a spill occurrence.
- As trucks and Operational Equipment move in and out, the ground is inspected for fresh residues, spills, or tracking and cleaned as needed.
- No washing, fueling, or maintenance of trucks is performed in the areas.
- There are absorbents kept on hand to clean any small leaks or spills, and the used absorbent materials are disposed of within regulations.

Additional BMPs

- As needed, new BMPs will be developed and implemented and dates documented.

Additional BMP	Implementation Date

#5 – Hazardous Materials

- All general BMPs are in place.

Existing Structural BMPs

- Hazardous Materials are secondarily contained within a concrete containment berm and stored under cover.

Existing Non-Structural BMPs

- Only the minimum amounts of Hazardous Materials are stored at the facility. There is no stockpiling of Hazardous Fluids.
- Removal of Hazardous Materials is performed by an outside licensed company and disposed of in accordance with applicable regulations as needed.
- The areas and the containers for Hazardous Materials are inspected on a regular basis to ensure no leaks or spills have occurred and to ensure containment integrity.
- The areas are closely monitored to inspect for tracking. If any tracking is observed, the area is cleaned immediately.
- There are absorbents kept on hand to clean any small leaks or spills, and the used absorbent materials are disposed of within regulations.

Additional BMPs

- As needed, new BMPs will be developed and implemented and dates documented.

Additional BMP	Implementation Date

#6 – Roll-offs

- All general BMPs are in place.

Existing Structural BMPs

- The Roll-off used for scrap metal storage is located under an awning on the north side of the main building.

Existing Non-Structural BMPs

- The Roll-offs are well maintained and free of holes or breaches, and the outside surfaces are cleaned as needed.
- Waste from the Roll-offs is removed from the facility by an outside licensed company on a weekly basis and disposed of in accordance with regulations.
- When a full Roll-off is replaced with an empty one, the ground is inspected for fresh residues and tracking and cleaned as needed.
- The Roll-offs are never overfilled, and there is no stockpiling of waste materials.

Additional BMPs

- As needed, new BMPs will be developed and implemented and dates documented.

Additional BMP	Implementation Date
Sweeping is performed 1x per day underneath andaround containers.	04/13/2015

#7 – Facility Support Equipment

- All general BMPs are in place.

Existing Structural BMPs

- The compressor is located under cover.

Existing Non-Structural BMPs

- The Facility Support Equipment is well maintained and repaired by an outside company, as needed.
- All waste from the baghouse system is captured by a Roll-off that is directly connected and removed daily or as needed by an outside licensed company for disposal in accordance with applicable regulations.
- The areas are inspected regularly for leaks, residues, debris, and tracking and cleaned as needed.
- There are absorbents kept on hand to clean any small leaks or spills, and the used absorbent materials are disposed of within regulations.

Additional BMPs

- As needed, new BMPs will be developed and implemented and dates documented.

Additional BMP	Implementation Date

#8 – Operational Equipment

- All general BMPs are in place.

Existing Structural BMPs

- There are no individual structural BMPs.

Existing Non-Structural BMPs

- Operational Equipment is parked indoors during rain events or non-operational hours.
- Equipment is inspected prior to use. Leaking or malfunctioning equipment is removed from service and repaired immediately.
- The outside surfaces of the machinery and equipment are cleaned regularly in order to minimize or eliminate any contact between operational fluids and storm water.
- Any areas where the Operational Equipment is utilized or driven through are closely monitored to inspect for tracking. If any tracking is detected, the area is cleaned immediately.
- Absorbents are kept on hand in order to clean any small leaks or spills. The used absorbent materials are disposed of within regulations.

Additional BMPs

- As needed, new BMPs will be developed and implemented and dates documented.

Additional BMP	Implementation Date

EMPLOYEE TRAINING

Periodic employee training is provided to ensure that our employees continue to understand the importance of preventing pollutants from coming into contact with storm water. At a minimum, these training programs will occur when the annual review is performed (sometime in June) or prior to the start of the wet season (sometime in September).

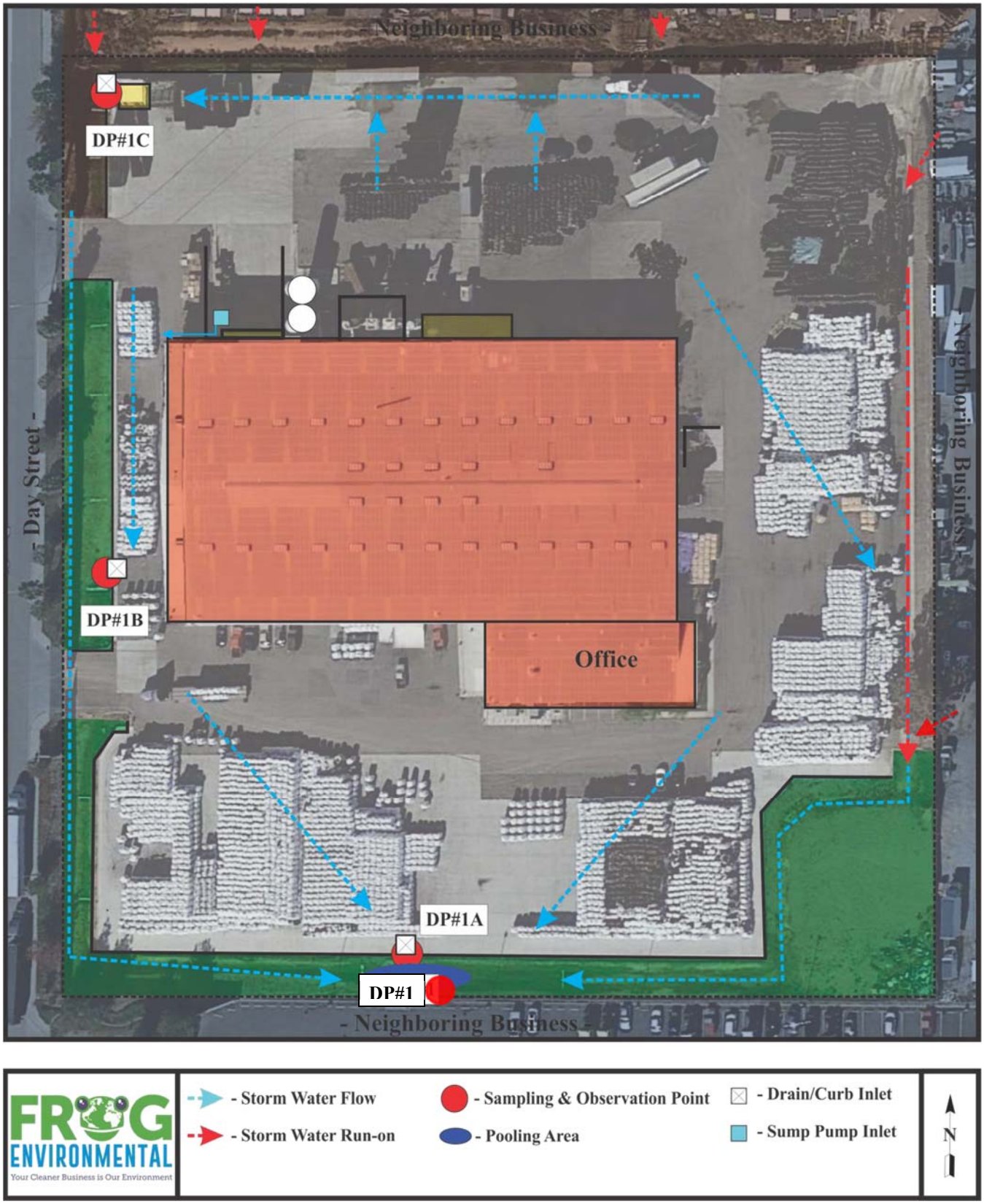
Should the Facility discover any issues during the course of the year, additional and more intensive employee training programs will be developed. If applicable, the need for additional preventative and mitigative measures will also be evaluated, and a plan for implementing these measures will be developed. Currently, the subjects below are covered during training:

- Employees are trained to follow existing BMPs, and new BMPs are covered as needed.
- Housekeeping procedures are covered.
- Sample results are discussed as needed.
- Observations and records are discussed as needed.
- New employees are specifically trained about the importance of not polluting storm water.
- Record(s) of attendees and covered subjects will be retained.

TRAINING SCHEDULE	SUBJECTS COVERED
Annually, prior to October 1st	Implementation of SWPPP: Observations and records, BMPs to be implemented, information gathering for Annual Report, and proper sampling techniques and procedures. Storm Water training video.
Annually, prior to October 1st	Additional training will be provided regarding the importance of eliminating unauthorized non-stormwater and material discharges, spill reporting, and prevention. Refresher training on proper storm water and non-storm water Monitoring practices.

MONITORING DIAGRAM

Lakin Tire West LLC – Monitoring Diagram
14050 Day Street, Moreno Valley, CA 92553



MONITORING REQUIREMENTS

The Monitoring & Reporting Program (MRP) provides the means of documenting the effectiveness of the Storm Water Pollution Prevention Plan (SWPPP). Monitoring records, including calibration and maintenance of field monitoring instruments, will be retained at our facility for a period of five years. The monitoring objectives shall be:

1) To identify and characterize pollutants in our storm water runoff and assess the influence of these pollutants on the quality of receiving waters (current and future).
2) To aid in the implementation and revision of our SWPPP to meet the changing conditions of our facility as well as to ensure the quality of our storm water discharges.
3) To measure and evaluate the effectiveness of our existing control measures to minimize or eliminate pollutants from storm water runoff.

Individuals Responsible for MRP Development and Implementation

Primary Sampler and Primary for Performing Visual Observations:
- Florin Ardelean, VP Operations, Regional Board Certified Person

Alternate(s) for Performing Visual Observations and Sampling:
-Jacqueline McMillen PE, SM-QSD-130, Regional Board Certified Person

Sampling Schedule

The Discharger shall collect and analyze storm water samples from two (2) qualifying storm events[1] within the first half of each reporting year from July 1 to December 31, and two (2) qualifying storm events within the second half of each reporting year from January 1 to June 30. The samples will be collected as close as possible to the start of the discharge that has been preceded by two consecutive days of dry weather.[2] Permittees need not sample outside of regular business hours or during unsafe conditions.

Storm Water Discharge and Sampling Locations

Water on the property will discharge to a single point at a curb drain located outside the southern fence line of the facility identified as DP#1. All water on the western half of the facility will flow south along the perimeter. Water on the eastern and western halves of the facility are designed to flow along a bioswale before discharging out from DP#1. Storm water from neighboring businesses does flow onto the facility and ultimately commingles with the storm water discharge. Storm water sampling locations also include DP#1A, DP#1B, and DP#1C to characterize on-site storm water runoff quality entering the LID BMPs and are not considered compliance samples. These sampling locations represent the property's main industrial activities while minimizing impact from neighboring run-on. Observations and sampling will be performed at each of these locations. Any water discharging from the facility enters the municipal storm drain system, which then flows into the Santa Ana River and, ultimately, out to the Pacific Ocean.

[1] "Qualifying Storm Events" under the Sector-Specific Scrap Metal Permit are those events in which (i) is a storm event preceded by at least two (2) consecutive days of dry weather during which no storm water discharges from the Facility have occurred; (ii) is a storm event that has produced runoff (0.1 inches or more of rainfall); and (iii) occur during facility operating hours.
[2] "Dry Weather" under the Sector-Specific Scrap Metal Permit is defined as two days of combined rainfall with less than 0.1 inches of total rain.

Visual Inspections

Visual inspections shall be performed to monitor storm water discharge quality and to ensure there are no unauthorized non-storm water discharges. These inspections will also include outdoor industrial equipment, industrial activities, storage areas, and all other potential sources of pollutants. Inspections shall be performed monthly from July through June. Inspections performed during a rain event shall be preceded by two consecutive days of dry weather, and discharge from the facility during scheduled operating hours will be observed for visible pollutants (e.g. oily sheen, floating material, etc.) as it discharges. Additionally, consecutive inspections will be performed 15 days apart from each other. Should any visible pollutant(s) be observed, we will attempt to trace it back to the source to adequately address the problem area. Any new and additional BMPs will be documented in the Facility SWPPP.

Rain Event Action Plan

A Rain Event Action Plan (REAP) shall be developed and implemented each time there is a 40% or greater probability of a storm event as defined by the National Weather Service.[3] Weather checks shall be performed and documented on a daily basis. The REAP will minimize exposure of industrial activity to storm water to the greatest extent practicable by providing temporary coverage to exposed areas and materials and ensuring that all BMPs and control measures on site are fully implemented and functional. Other measures to isolate industrial areas from contact with rainfall and runoff, including the sweeping of debris and trash on site prior to the expected storm event, will be implemented as a part of the REAP.

Sample Collection and Handling

Samples will be collected at the sampling locations identified on the Monitoring Diagram. The following subsections provide specific details for sample handling, analytical parameters, and other details required to ensure that proper representative samples are taken.

To maintain sample integrity and prevent cross-contamination, sample collection must follow the protocols below.

- Collect samples only in containers provided by the analytical laboratory;
- Wear clean, powder-free nitrile gloves;
- Change gloves whenever something not known to be clean has been touched;
- Change gloves between sampling points;
- Decontaminate all equipment (e.g. bucket, tubing) prior to sample collection using a trisodium phosphate water wash, distilled water rinse, and final rinse with distilled water. (Dispose of wash andrinse water appropriately, i.e., do not discharge to storm drain or receiving water). Do not decontaminate laboratory provided sample containers;
- Do not smoke during sampling events;
- Never sample near a running vehicle;
- Do not park vehicles in the immediate sample collection area (even non-running vehicles);
- Do not eat or drink during sample collection; and
- Do not breathe, sneeze, or cough in the direction of an open sample container.

It is important that grab samples be taken properly. In general, the following should be observed when taking samples:

- Wear disposable powder-free latex or nitrile gloves.

[3] http://www.weather.gov/

- Allow storm water to flow directly into the sample bottle, rather than transferring it from another collection vessel.
- Ensure that any preservative placed in the bottle by the laboratory (e.g. acid) is not lost prior to or during sampling.
- Never allow the bottle to overflow during sampling, particularly if it contains a preservative.
- Keeps hands away from the sample bottle's opening to prevent contaminating the sample.
- Hold the sample bottle facing upstream.
- Take the sample directly from the discharge inlet/outlet.
- As soon as the sample is taken, cap the bottle and label it.

Samples should be collected as the storm water falls from a pipe or from a running, turbulent stream of flow when possible so the source will be well mixed. When using a sample bottle, the bottle should be plunged below the surface in a sweeping arc and then brought upwards through the water surface again, so the water surface is broken twice by the mouth of the bottle.

Sampling Documentation

For each sample taken, the following information will be recorded using waterproof ink:

- The date, exact place, method, and time of sampling or measurement
- The individual who performed the sampling or measurement
- A unique identification number for each sample
- If duplicate samples are taken, they should be identified consistent with the numbering system for other samples to prevent the laboratory from identifying duplicate samples. Duplicate samples will beidentified in the Sampling Log.
- If an error is made on a document, sampling personnel will make corrections by lining through theerror and entering the correct information. The erroneous information will not be obliterated. All corrections will be initialed and dated.

Sample Handling and Transport to Lab

The following sample handling procedures will be followed:

- Samples should be delivered to the laboratory as soon as possible on the day the samples are taken, orwithin 48 hours.
- Each sample should be labeled with waterproof ink to prevent ice or water from smearing the labels and placed into plastic bags in a transportable cooler and covered in ice to keep each bottle cool. The label shall identify the date and time of sample collection, the person taking the sample, and the sample collection location or discharge point. The label should also identify any sample containers thathave been preserved.
- A chain-of-custody form (provided by the lab) should be completed before delivering the samples tothe lab.
- If Qualified Combined Samples are taken, the appropriate samples should be clearly identified so thatthe laboratory combines the correct samples.
- To prevent contamination, do not touch inside of sample container or cap or put anything into thesample containers before collecting storm water samples.

- Do not overfill sample containers. Overfilling can result in a loss of preservative and change theanalytical results.
- Tightly screw on the cap of each sample container without stripping the threads of the cap.

Certified Laboratory

The following State-certified laboratory will be used for the analysis of all storm water samples:

Alpha Analytical Laboratories – Corporate, ELAP#1551
208 Mason Street,
Ukiah, CA 95482

Parameters and Constituents for Laboratory Analysis

All storm water samples collected from the facility shall be analyzed for the following constituents:

Constituents	Unit	Frequency	Test Method
pH	pH Units	4 times/year	Field test with a calibrated portable instrument or EPA 9040/SM 4500H
Turbidity	NTUs	4 times/year	Field test with a calibrated portable instrument or EPA 180.1/SM 2130B
Specific Conductance	µmhos/cm	4 times/year	Field test with a calibrated portable instrument or EPA 120.1/SM 2510-B
Oil and Grease	mg/L	4 times/year	EPA 1664-HEM
Total Petroleum Hydrocarbons	mg/L	4 times/year	EPA 1664-SGT-HEM or 8015B
Zinc (total recoverable)	ug/L	4 times/year	EPA 200.8
Lead (total recoverable)	ug/L	4 times/year	EPA 200.8
Aluminum (total recoverable)	ug/L	4 times/year	EPA 200.8
Copper (total recoverable)	ug/L	4 times/year	EPA 200.8
Iron (total recoverable)	ug/L	4 times/year	EPA 200.8
Cadmium (total recoverable)	ug/L	4 times/year	EPA 200.8
Nickel (total recoverable)	ug/L	4 times/year	EPA 200.8
Chemical Oxygen Demand (COD)	mg/L	4 times/year	SM 5220C or SM 5220D
PCBs	ug/L	1st year after permit adoption (first storm sample)	EPA 608

The results of samples will be uploaded electronically within 30 days once the results are received from thelaboratory.

Recordkeeping

The Permittees shall retain records of all monitoring information, including all calibration and maintenance of monitoring instruments, copies of all reports prepare as per this MRP and annual reports for a period of at least five yards from the ate of the sample, measurement, report, or application.

Annual Report

The Annual Report will be filed electronically by the August 1st deadline along with the results of our monitoring program (i.e. observations of storm water, non-storm water, and sample results). As required by the Permit, we will also perform an annual review during this time. The evaluation will be performed to evaluate the effectiveness of our BMPs. Should any problem area(s) be discovered at the time of the review, a plan for implementing additional preventative and mitigative measures will be developed and documented in the Facility SWPPP.

This monitoring program satisfies the objectives as required by the Permit. If the analytical results of a sampled storm event are above the benchmark parameters, we may sample additional rain events and submit all sample results with the Annual Report. A state certified laboratory will assist us with the preservation and analysis of samples, and we will use the laboratory's provided documentation methods and equipment.

MONITORING SCHEDULE

July

- If the annual review demonstrated that existing BMPs are not effective in controlling potential pollutants, July will be spent implementing additional preventative and mitigative measures and revising the SWPPP. Corrective Action Plans will also be created and submitted to the Regional Board, if necessary.
- Complete and electronically file the Annual Report by August 1st. All records generated should be maintained at the facility for a period no less than five years.
- Prepare for the storm season.
  - Prepare to take the first sample of a storm water discharge. This first sample should be taken from the first rain event of the storm water year occurring during scheduled facility operating hours. A state certified lab will be contacted for additional assistance.
- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect the first sample of a storm water discharge if a qualifying rain event occurs that produces a discharge during scheduled facility operating hours.

August

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect the first sample of a storm water discharge for the year if no prior qualifying or significant rain event occurred.

September

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect the first sample of a storm water discharge for the year if no prior qualifying or significant rain event occurred.

October

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect the first sample of a storm water discharge for the year if no prior qualifying or significant rain event occurred.

November

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect additional sample(s) of a qualifying storm water discharge if a qualifying rain event occurs that produces a discharge during scheduled facility operating hours. A minimum of four samples must be collected for the year, assuming that there are four qualifying storm events in the year.

December

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect additional sample(s) of a qualifying storm water discharge if a qualifying rain event occurs that produces a discharge during scheduled facility operating hours.

January

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect additional sample(s) of a qualifying storm water discharge if a qualifying rain event occurs that produces a discharge during scheduled facility operating hours.

February

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect additional sample(s) of a qualifying storm water discharge if a qualifying rain event occurs that produces a discharge during scheduled facility operating hours.

March

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect additional sample(s) of a qualifying storm water discharge if a qualifying rain event occurs that produces a discharge during scheduled facility operating hours.

April

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect additional sample(s) of a qualifying storm water discharge if a qualifying rain event occurs that produces a discharge during scheduled facility operating hours.

May

- Perform the monthly visual inspection. If visible pollutants are observed, determine where and how that pollutant(s) may into contact with stormwater as well as a course of action.
- Collect additional sample(s) of a qualifying storm water discharge if a qualifying rain event occurs that produces a discharge during scheduled facility operating hours.

June

- Perform the annual review, which includes reviewing all generated records, inspections, and sample results from the previous storm water year.
- If the annual review demonstrated that existing BMPs are not effective in controlling potential pollutants, revise and/or implement additional preventative and mitigative measures. Revise the SWPPP during the month of July to reflect any new changes.

BMP Inspection Report for the Prevention of Storm Water Pollution

Inspected Area	Pollutants Observed in Exposed Areas?	Description of Pollutants (e.g. metal chips, oil spots, tracking, residues, etc.)	Corrective Actions (e.g. increase sweeping, clean up area, cover items, etc.)
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
Discharge Points	**Evidence of Pollutants?**	**Corrective Actions**	
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		
	Yes / No / NA		

Inspector, Title **Date**

Spill Incident Report Form

- Name of Person Reporting Spill_____ Date / Time _____

Name and Approximate Volume of Substance(s) Spilled

1.	
2.	
3.	
4.	
5.	

- Location of Substance Spilled _____
- Raining at Time of Spill? ☐ YES ☐ NO
- Did the Spilled Substance Enter a Storm Drain? ☐ YES ☐ NO

Procedure Used for Spill Clean-up

_____

_____

_____

_____

_____

_____

_____

Contact Resources

Water Quality Control Boards

- California State Water Resources Control Board (SWRCB) – 916-341-5250
- Santa Ana Regional Water Quality Control Board – 951-782-4130

Other Agencies

- California Office of Emergency Services-Oil Response – 1-800-852-7550
- National Response Center USCG/USEPA – 1-800-424-8802

Agency Contacted	Agency Person Contacted	Time Contacted
1.		
2.		
3.		
4.		
5.		

Signature/Title/Date_____

Storm Water Training Certificate

This certifies that the following individuals at_____completed the storm water training programs listed below for the_____Storm Water Year. Topics include proper BMP evaluations and implementation, visual inspections and documentation, spill response procedures, sampling requirements (including techniques for collection, preservation, and handling), and any additional programs that convey the importance of minimizing or reducing exposure of industrial activities to storm water.

Date	Training Program	Notes	Name	Signature

Rain Event Action Plan

(REAP)

COPY AS NEEDED

Facility:	Date:	Time:
Inspector:	Title:	
Predicted Date of Rain:	Predicted Percentage: %	

	Pre-Rain Activities Checklist *(implemented prior to a predicted storm event with a 40% or greater probability)*
	Inform proper personnel of predicted rain.
	Alert Certified Person for potential sample collection.
	Reschedule activities as needed that may result in exposure of pollutants to storm water.
	Temporarily cover exposed materials and roll-offs, if possible.
	Sweep and clear debris and trash on site, including storm water conveyances. (e.g. storm drains, swales, sump pumps, etc.)
	Make sure trash bins are covered.
	Inspect site entrances/exits for tracking.
	Inspect all vehicles/equipment on site for leaks and/or drips.
	Clean all visible leaks and drips and properly dispose of spent absorbents prior to predicted rain. Use drip pans as needed.
	Inspect all chemical/hazardous materials storage area(s) for proper storage and containment.
	If applicable, inspect all treatment system(s) on site. (e.g. oil/water separator, clarifier, etc.)
	If applicable, inspect all Low Impact Development (LID) BMPs. (e.g. retention basins, vegetated swales, etc.)
	If applicable, inspect other measures implemented on site to isolate industrial areas from contact with storm water.
	Add'l:
	Add'l:
	Add'l:
	Add'l:
	Add'l:
	File completed REAP within the appropriate "Completed Forms" section.

Notes / Additional Info:

Signature

Monthly Visual Inspection Form

(Discharges of Storm Water and Non-Storm Water)

COPY AS NEEDED

Facility:		
Inspector:	Title:	
Current Weather Condition:	Date:	Time:

1. Are there any discharges occurring at any of the drainage outfall(s)? ☐ YES, *explain:* ☐ NO

Discharge Point	**Source of Discharge** *(if applicable)*

Non-Storm Water Discharges

AUTHORIZED	**UNAUTHORIZED***
Fire Hydrant Flushing	Wash Water
Potable Water Source	Cooling Tower Water
Condensation (refrigeration, air conditioners, etc.)	Blowdown Water (compressors, boilers, etc.)
Ground Water	Leaks / Spills of Materials
Landscape Watering	All Other Types of Discharges

**** All unauthorized non-storm water discharges must be eliminated from the site.***

2. Are there any pollutants in the discharging water? ☐ YES, *explain:* ☐ NO

Discharge Point	**Characteristics / Source of Pollutant** *(if applicable)*

Observation Tips and Instructions

CHARACTERISTICS
Clear
Discolored
Turbid / Cloudy
Odorous (Smelly)
Oily Sheen
Floating Materials

- Observe the water and look for evidence of pollutants (oily sheen, odor, etc.)
- Document the source of the observed pollutant(s) (ex: If there is an oil sheen, you should be able to follow that sheen back to a particular source on the ground, such as an oil spot in a parking area)
- Write down the additional BMP(s) necessary to eliminate pollutant(s) from future discharges

Monthly Visual Inspection Form

(BMP Checklist)

COPY AS NEEDED

Facility:	Date:

*** Please refer to the BMP Inspection Report for more details ***	YES	NO	N/A
1. Are industrial areas swept regularly?			
a) Has the sweep log been updated to reflect regular sweeping activities?			
b) Do sweeping activities need to be increased?			
2. Is there any tracking or evidence of tracking on site or at the site entrances/exits?			
3. Is there any excessive sediment buildup observed on site?			
4. Are all storm drains, swales, sump pumps, etc. clear of debris and properly maintained?			
5. Are all chemicals/hazardous materials properly stored and secondarily contained?			
6. Are all containers labeled with contents?			
7. Are all vehicles/equipment maintained regularly? *(inspections to occur on a weekly basis)*			
a) Has the maintenance log been updated to reflect regular maintenance activities?			
8. Are all vehicles/equipment cleaned or washed in a designated area?			
9. Are drip pans and/or absorbents available on site and properly used?			
10. Has the significant materials list been updated to reflect current inventory?			
Structural / Mitigative BMPs	YES	NO	N/A
11. Are Low Impact Development (LID) BMPs and/or treatment system(s) installed on site?			
12. Are the treatment system(s) maintained regularly?			
a) Has the maintenance log been updated to reflect regular maintenance activities?			

General Recommendations:

Notes / Additional Info:

Signature

Alpha Analytical Laboratories Inc.
www.alpha-labs.com
WATERS, SEDIMENTS, SOLIDS

Corporate Laboratory (1551)
208 Mason Street, Ukiah CA 95482
707.468.0401 (phone)
707.468.5267 (fax)
clientservices@alpha-labs.com

North Bay Laboratory (2303)
110 Liberty Street, Petaluma CA 94952

Bay Area Laboratory (2728)
262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922)
9090 Union Park Way #113, Elk Grove CA 95624

San Diego Laboratory (3055)
2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No _____ Pg _____ of _____

Report to	Invoice to (if different)	Project Information
Company: Lakin Tire West LLC	**Contact:**	**Project ID:**
Attn: Florin Ardelean	**Email address:**	**Project No:**
Address: 14050 Day Street, Moreno Valley, CA 92553	**Address:**	**PO Number:**
Phone/Fax: (951) 214-6590	**Phone/Fax:**	
Email Address: fardelean@basrecycling.com		

Signature below authorizes work under terms stated on reverse side.

Field Sampler - Printed Name & Signature:

Sample Identification	Sampling Date	Sampling Time	Container: 40ml VOA Vial	Container: Plastic	Container: Glass	Container: Sleeve	Container: Other	Preservative: HCl	Preservative: HNO3	Preservative: H2SO4	Preservative: Other	Preservative: None	Matrix: Drinking Water	Matrix: Wastewater	Matrix: Soil	Matrix: Other	Total Number of Containers per Sample ID	Field Measurements: pH (units)	Field Measurements: Conductivity (umhos/cm)	Field Measurements: Turbidity (NTU)	Lab Analysis Request: Oil and Grease	Lab Analysis Request: TPH Multirange	Lab Analysis Request: COD	Lab Analysis Request: Al, Cd, Cu, Fe, Ni, Pb, Zn (EPA 200.8)	Lab Analysis Request:	Lab Analysis Request:	Lab Analysis Request:	Lab Analysis Request:	Notes / DDW Source Codes
DP#1			3	2	4											X	9				X	X	X	X					Storm Water
DP#1A			3	2	4											X	9				X	X	X	X					Storm Water
DP#1B			3	2	4											X	9				X	X	X	X					Storm Water
DP#1C			3	2	4											X	9				X	X	X	X					Storm Water

TAT
Standard 10 days ●
RUSH:
5 days ○
48 hours ○
Other: ____days ○
Preapproval required

TEMP °C
Ukiah
Livermore
Elk Grove
Petaluma
Carlsbad

Relinquished by	Received by	Date	Time

DDW Write On EDT Transmission? ○ Yes ○ No

State **System** Number: _____

If "Y" please enter the Source Number(s) in the column above

CA Geotracker EDF Report? ○ Yes ○ No

Global ID: Sampling Company Log Code:

EDF to (Email Address):

Travel and Site Time:	Mileage:	Misc. Supplies:

COC Form

Equipment Maintenance Log

COPY AS NEEDED

Facility:

Date	Equipment Serviced	Service Requested *(description of problems)*	Notes	Name of Mechanic or Outside Company	Signature

Attach a copy of the work order and/or invoice for any equipment repair or maintenance activity performed by an outside company.

Sweeping Log

COPY AS NEEDED

Facility:

Date	Initials	Area(s) Swept / Notes	Date	Initials	Area(s) Swept / Notes

Weather Log

COPY AS NEEDED

Facility:	
Month:	Year:

Day	Initials	Date Checked	% of Rain	Day	Initials	Date Checked	% of Rain
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16							

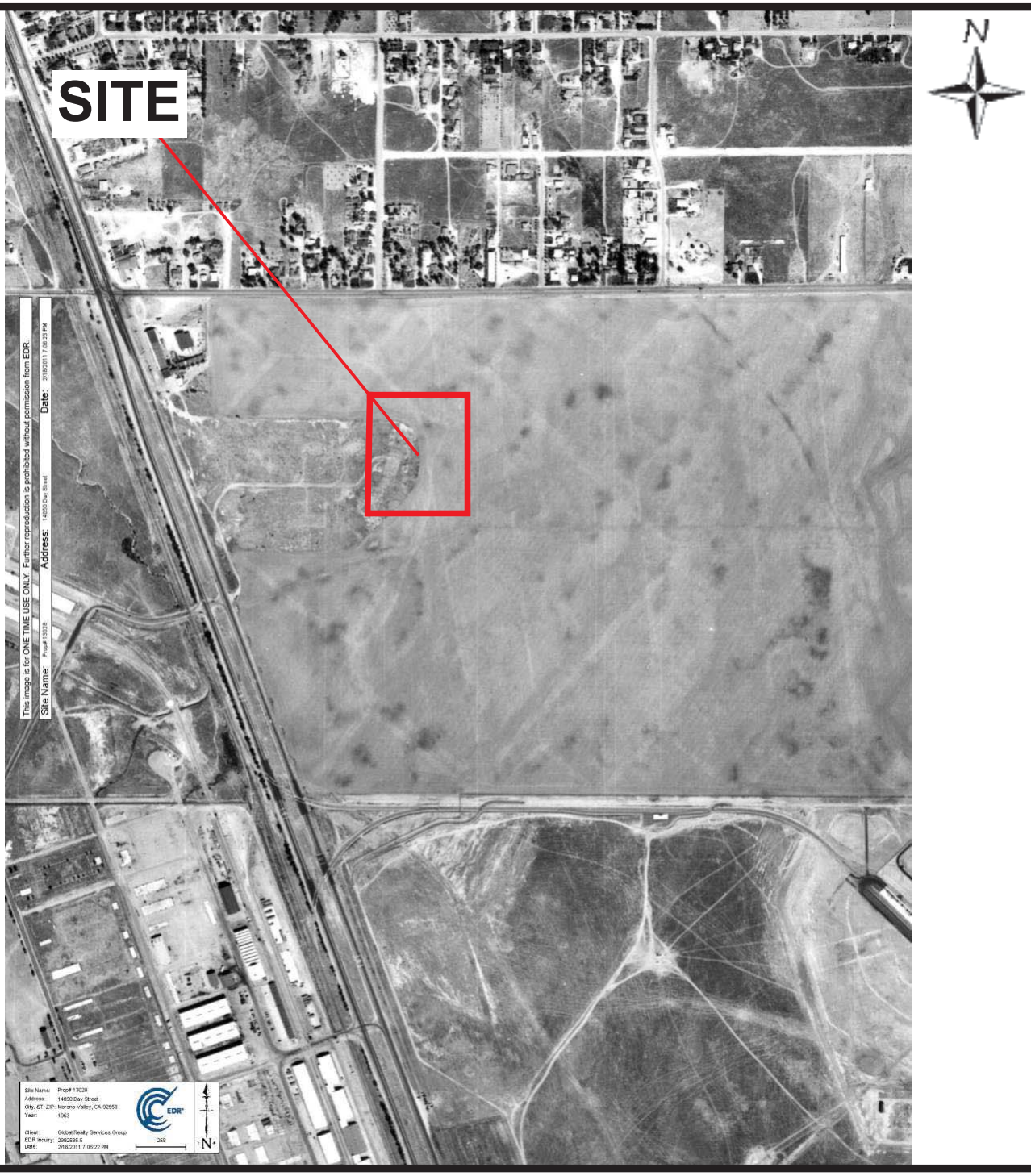
Notes ***(attach a printout of the weather forecast from the National Weather Service)***:

Revision History

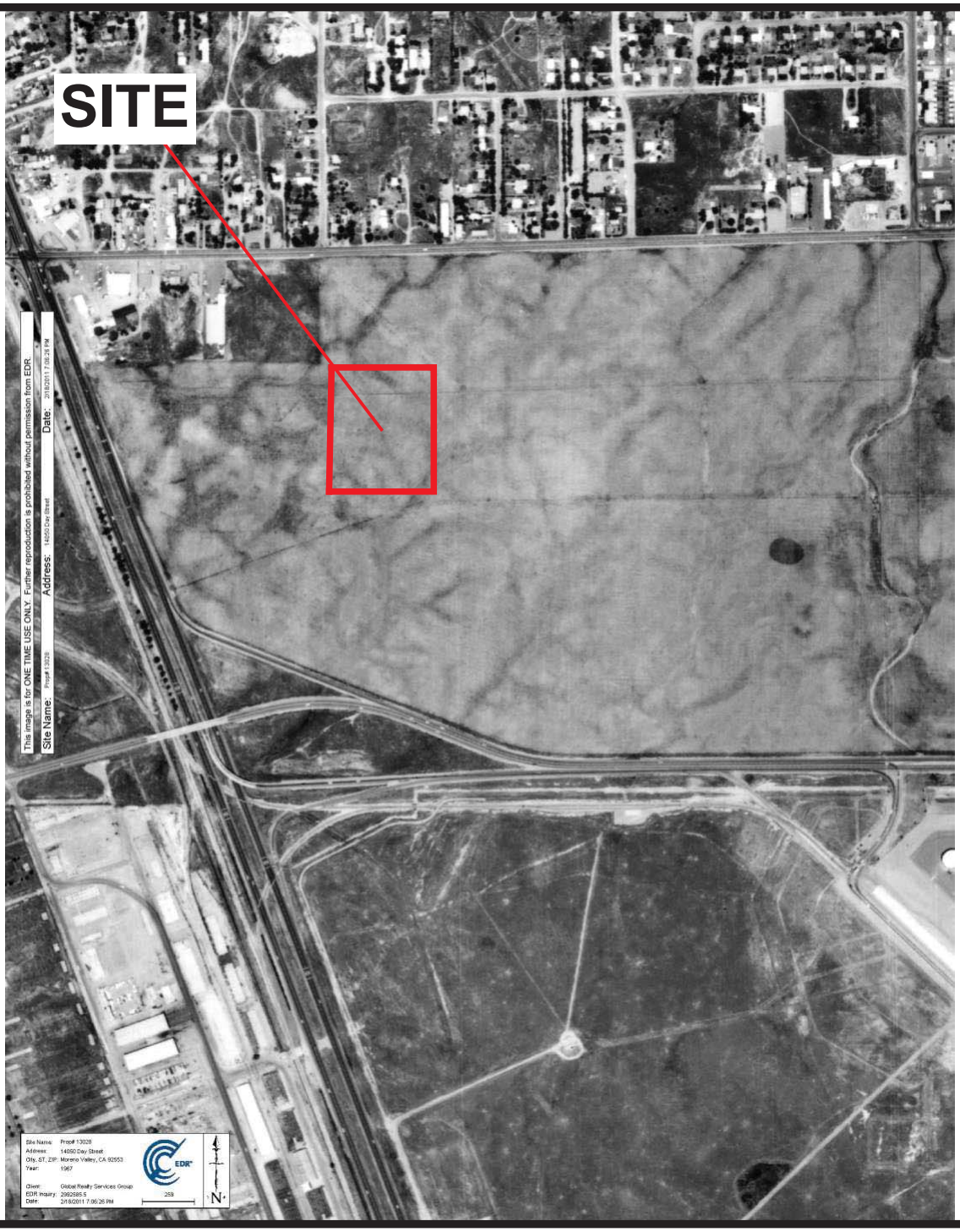
Section Amended	Date	Brief Description of Amendment	Prepared by
Responsibility, Pollution Prevention Team, Monitoring Requirements	July 2021	Updated facility owner, pollution prevention team members, Scrap Metal Qualified SWPPP Developer (SM-QSD)	NV5

APPENDIX D
HISTORICAL RESOURCES

1938 Aerial Photo
Prop# 13028
14050 Day Street
Moreno Valley, CA



1953 Aerial Photo
Prop# 13028
14050 Day Street
Moreno Valley, CA

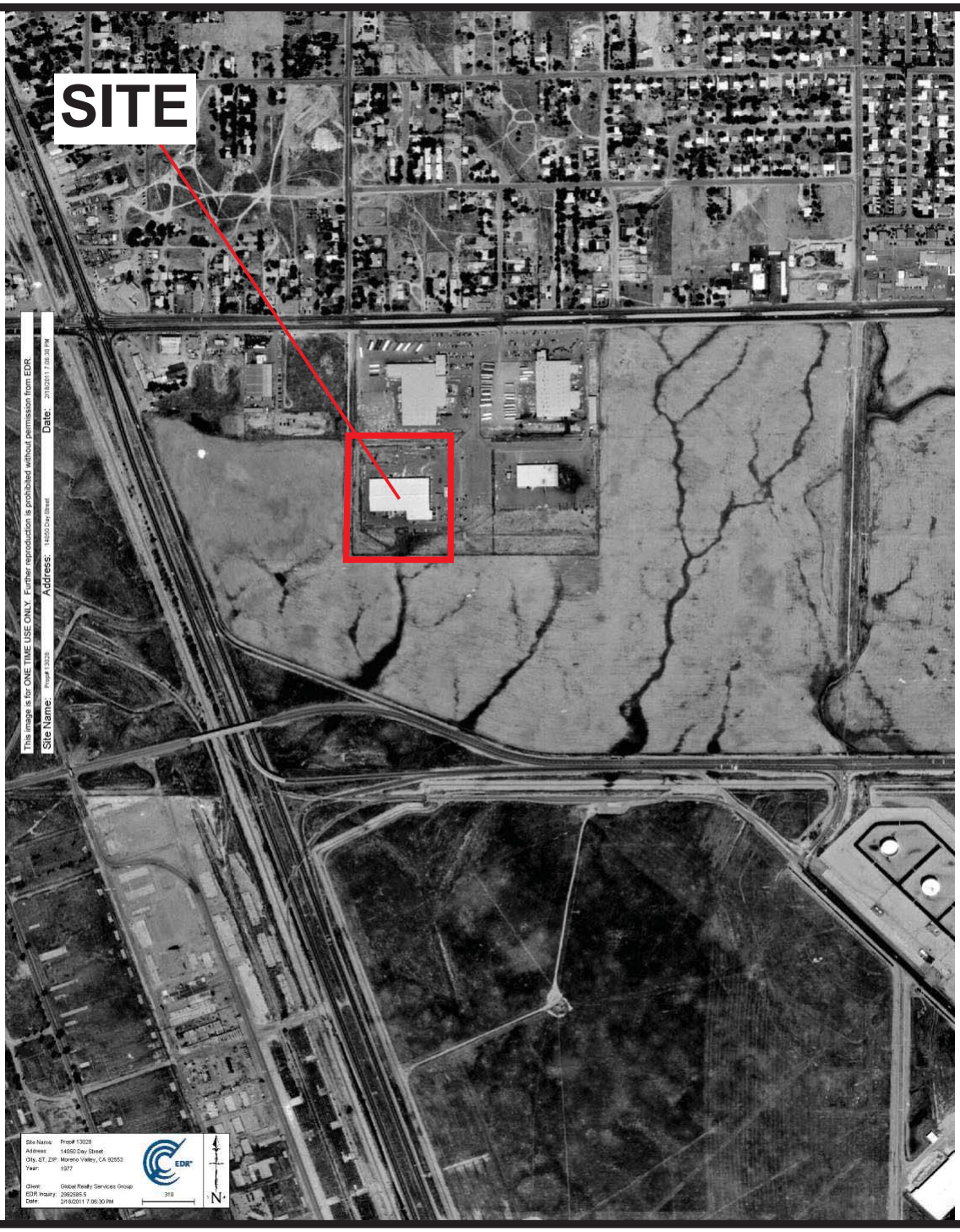


1967 Aerial Photo

Prop# 13028

14050 Day Street

Moreno Valley, CA

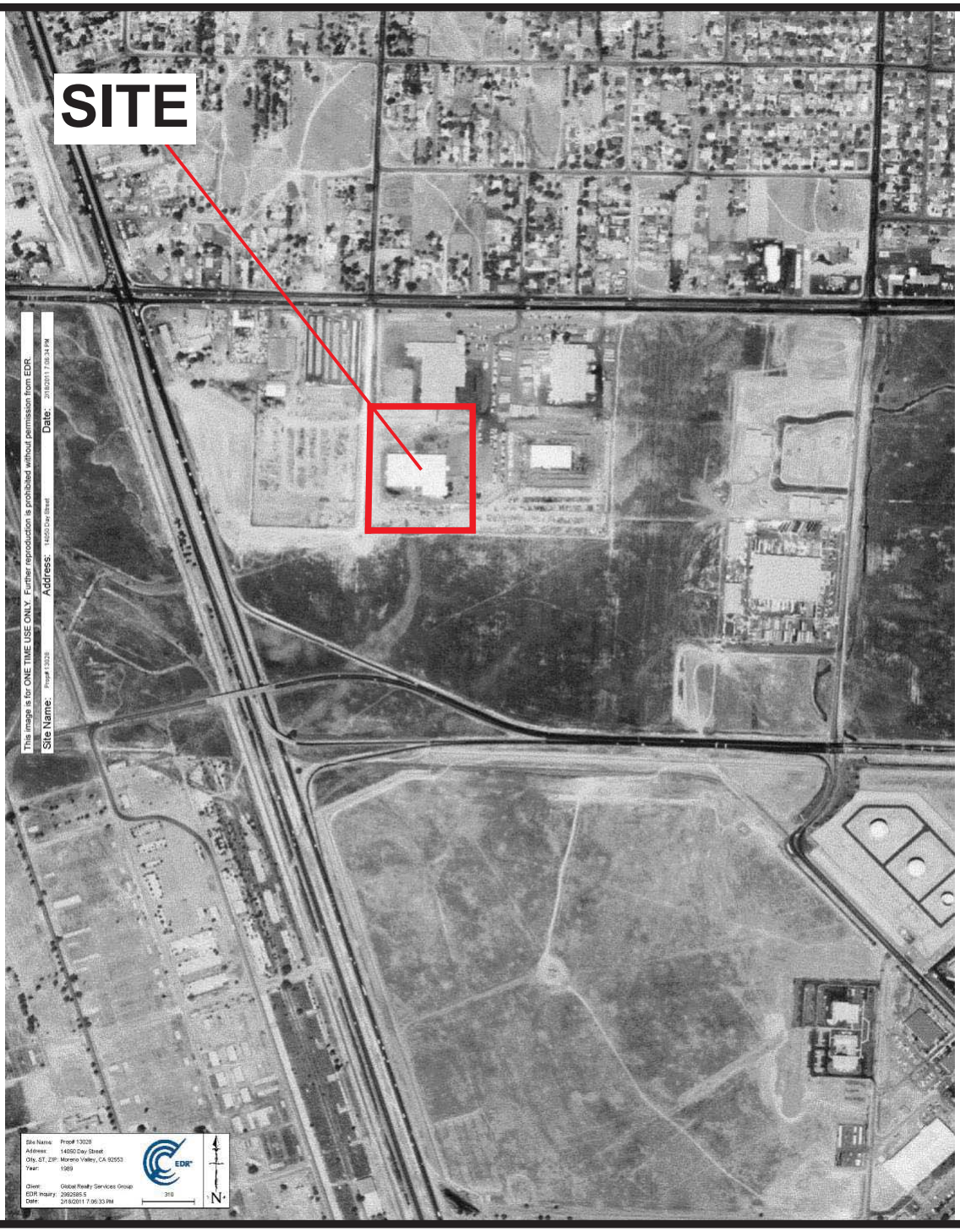


1977 Aerial Photo

Prop# 13028

14050 Day Street

Moreno Valley, CA

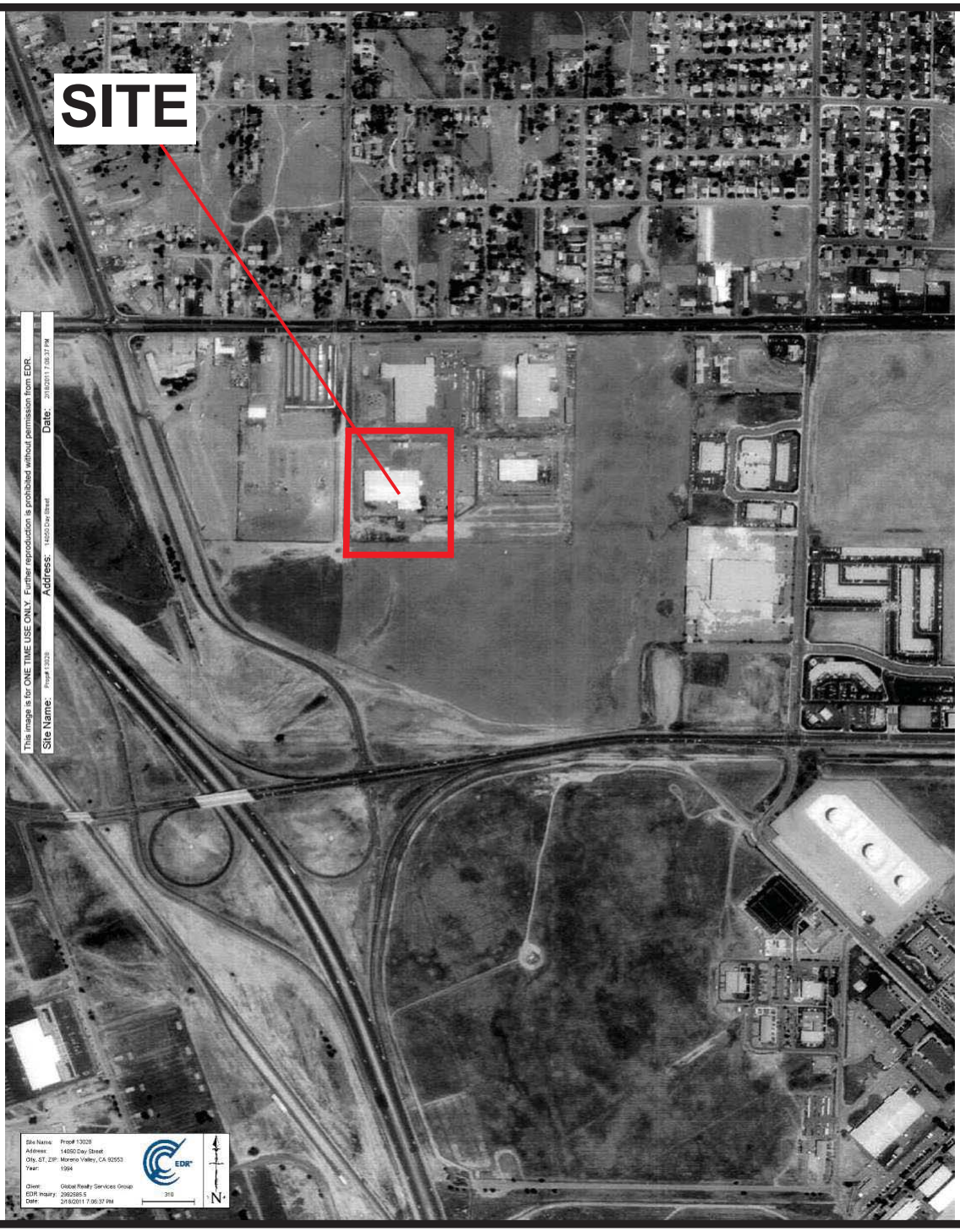


1989 Aerial Photo

Prop# 13028

14050 Day Street

Moreno Valley, CA

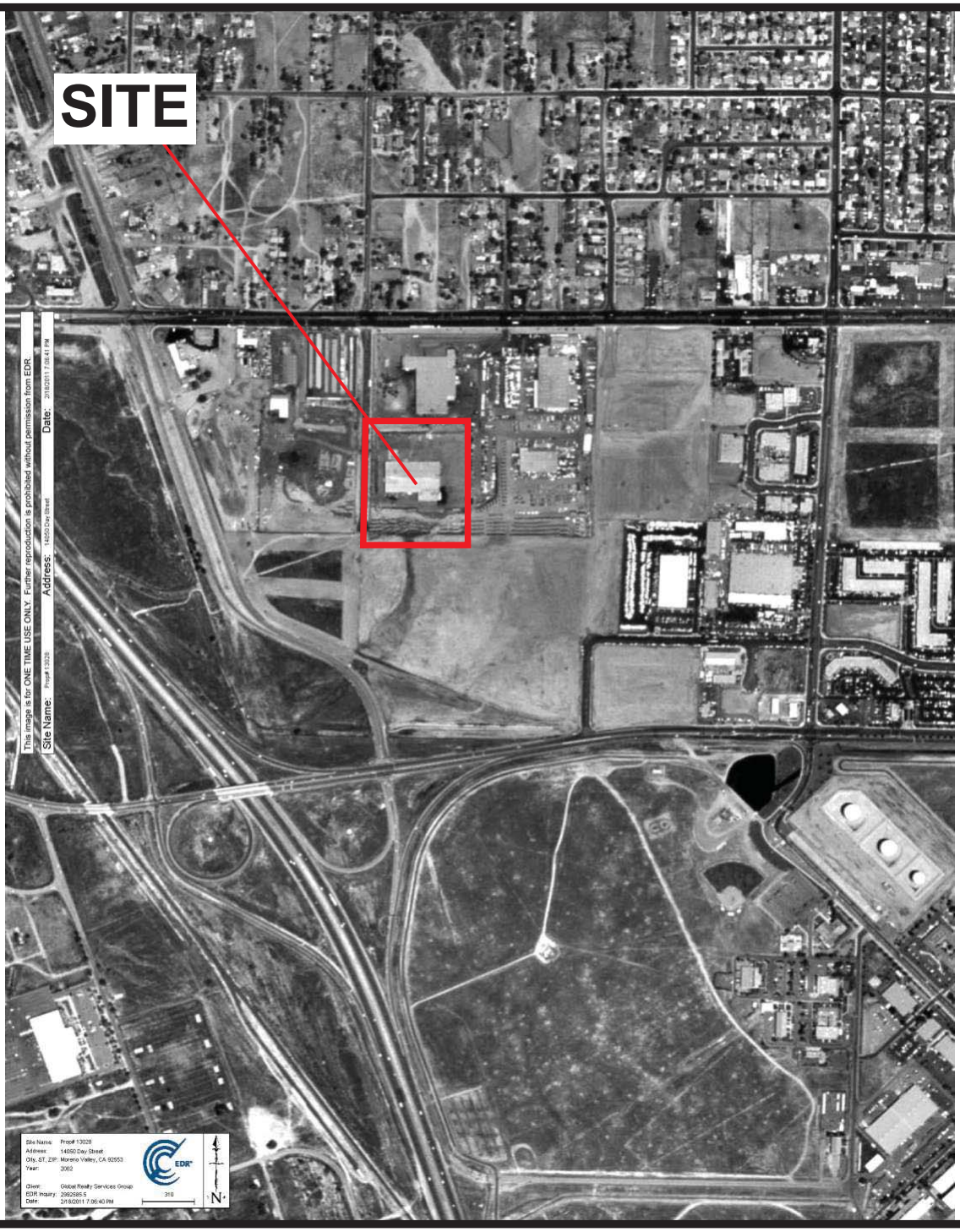


1994 Aerial Photo

Prop# 13028

14050 Day Street

Moreno Valley, CA

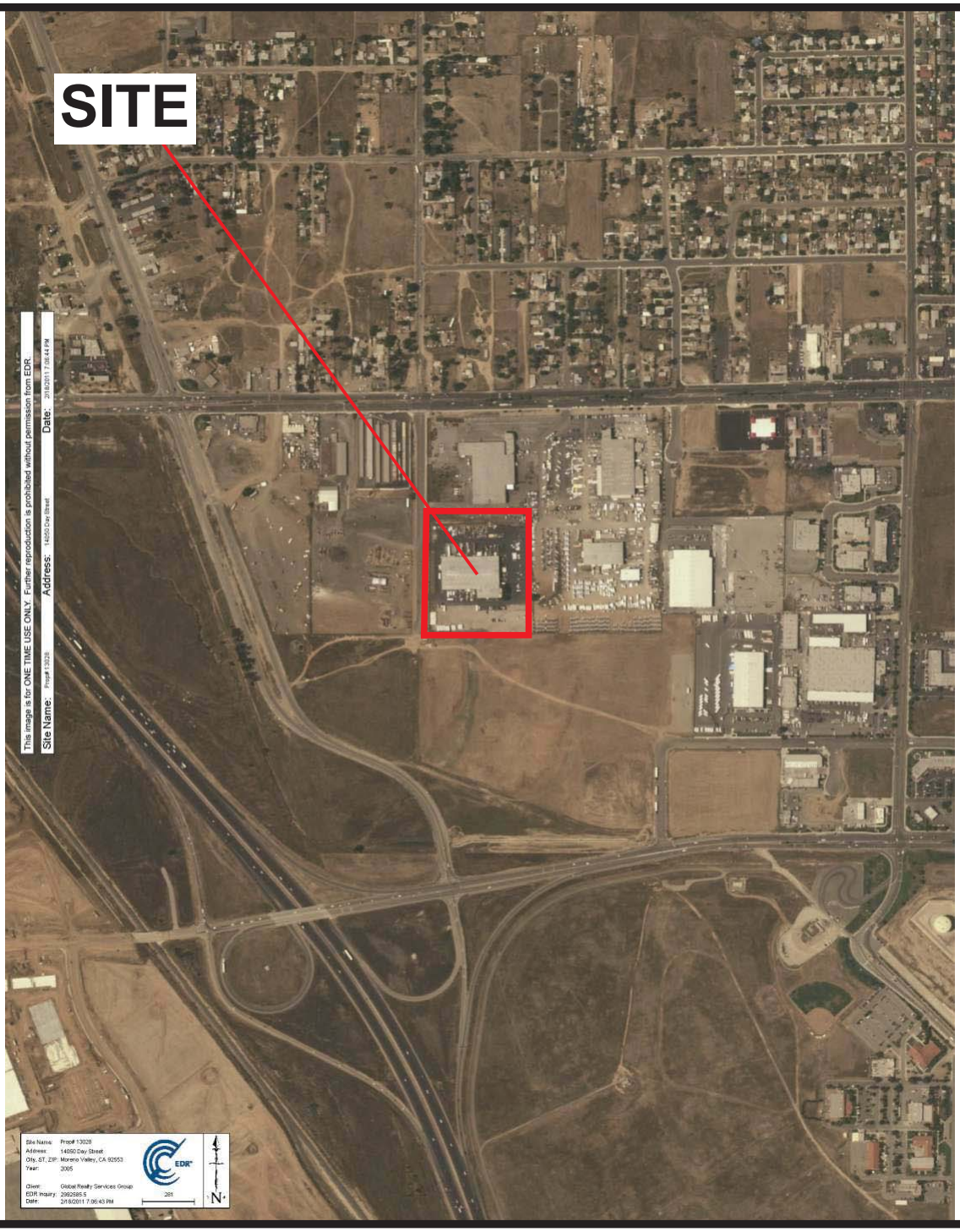


2002 Aerial Photo

Prop# 13028

14050 Day Street

Moreno Valley, CA

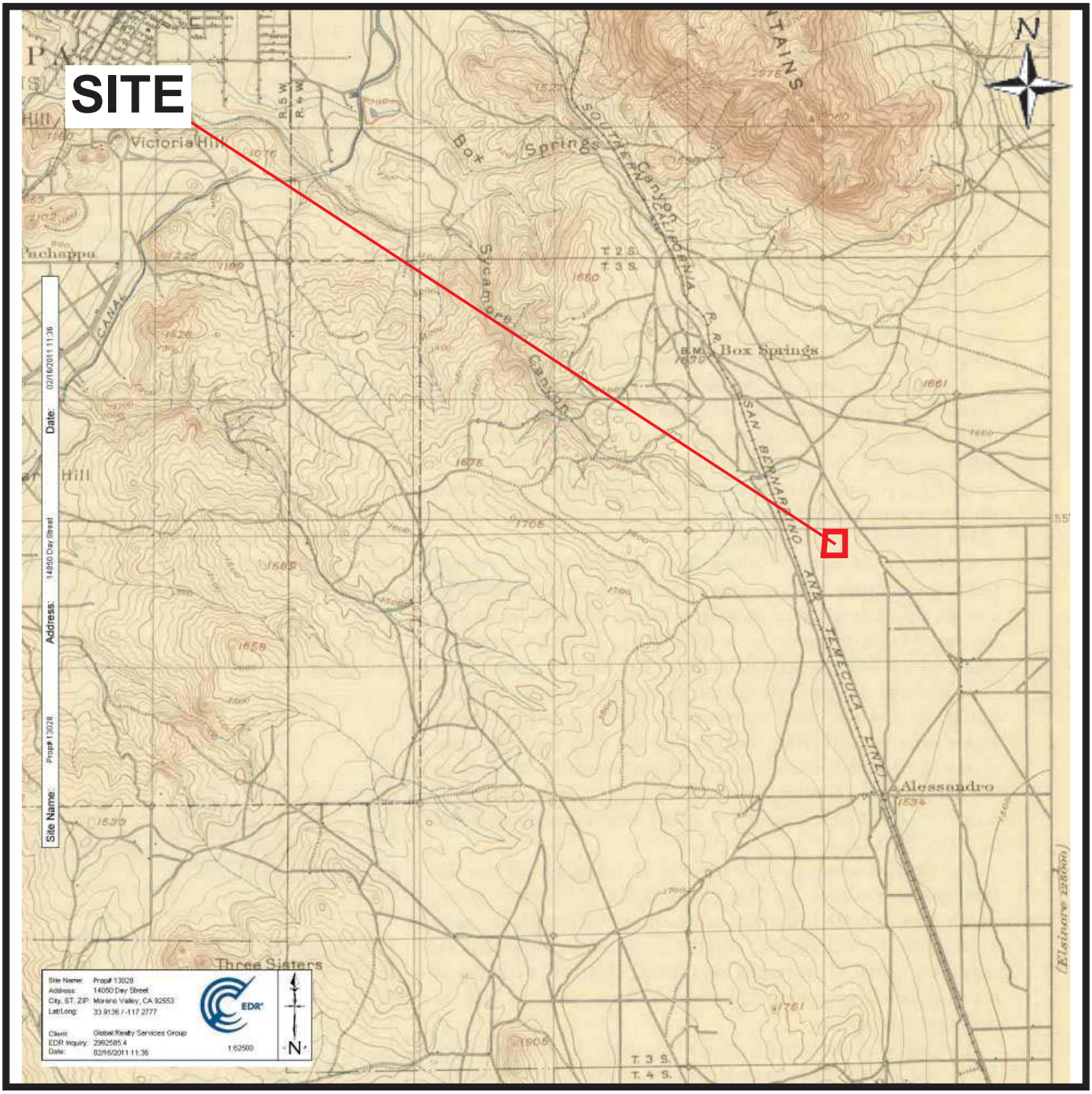


2005 Aerial Photo

Prop# 13028

14050 Day Street

Moreno Valley, CA

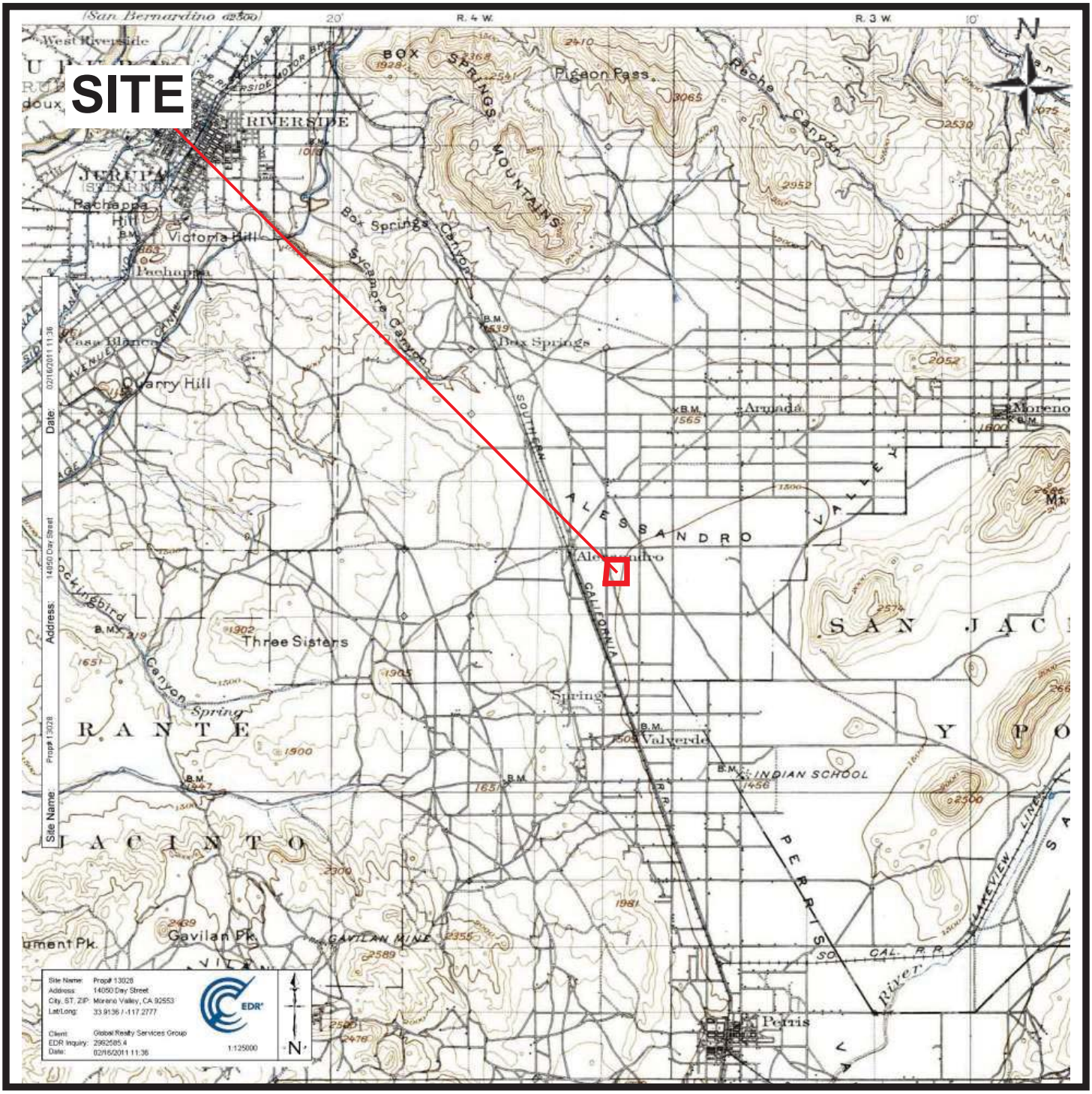


1901 Topographic Map

Prop# 13028

14050 Day Street

Moreno Valley, CA

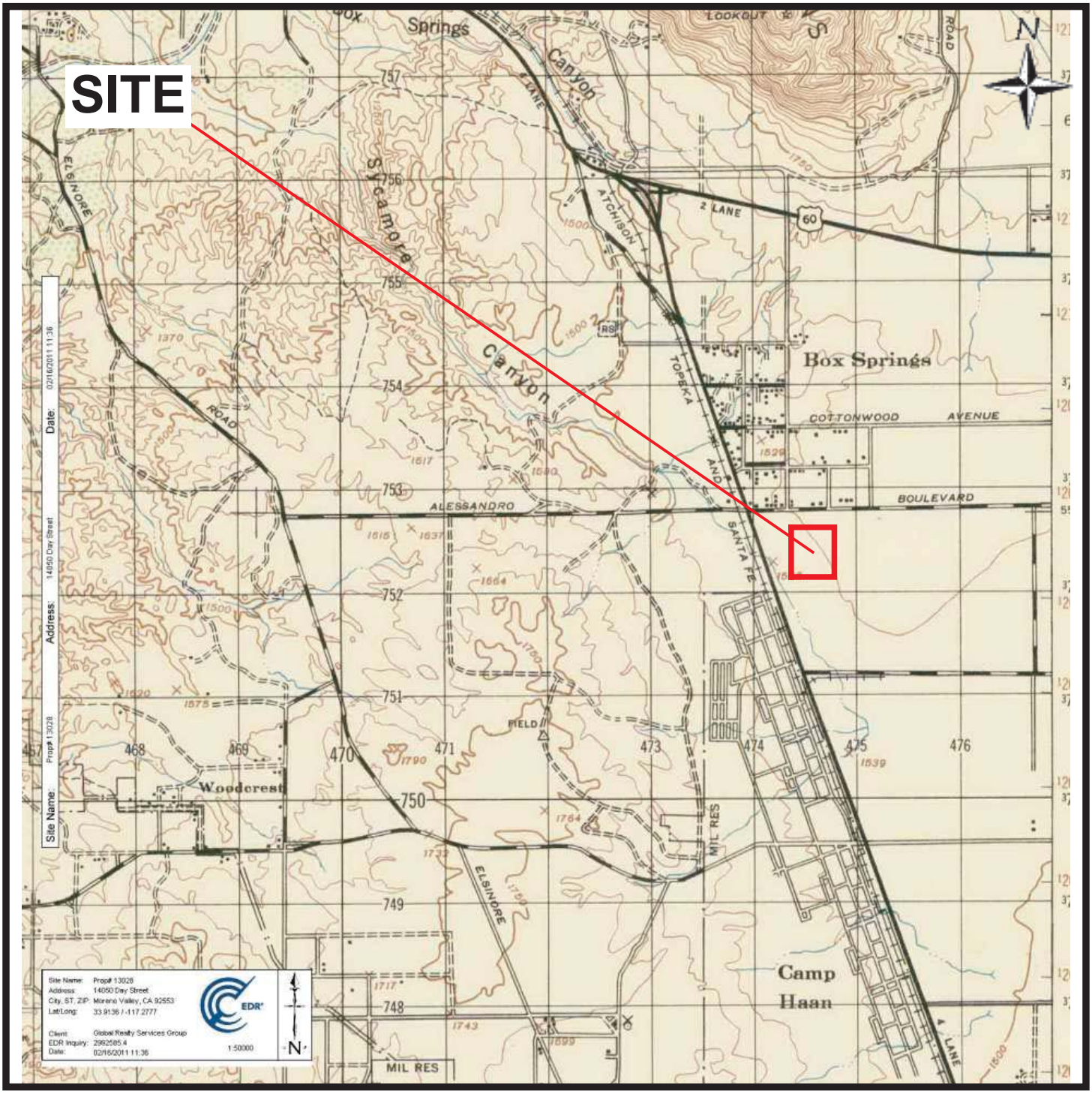


1901 Topographic Map

Prop# 13028

14050 Day Street

Moreno Valley, CA

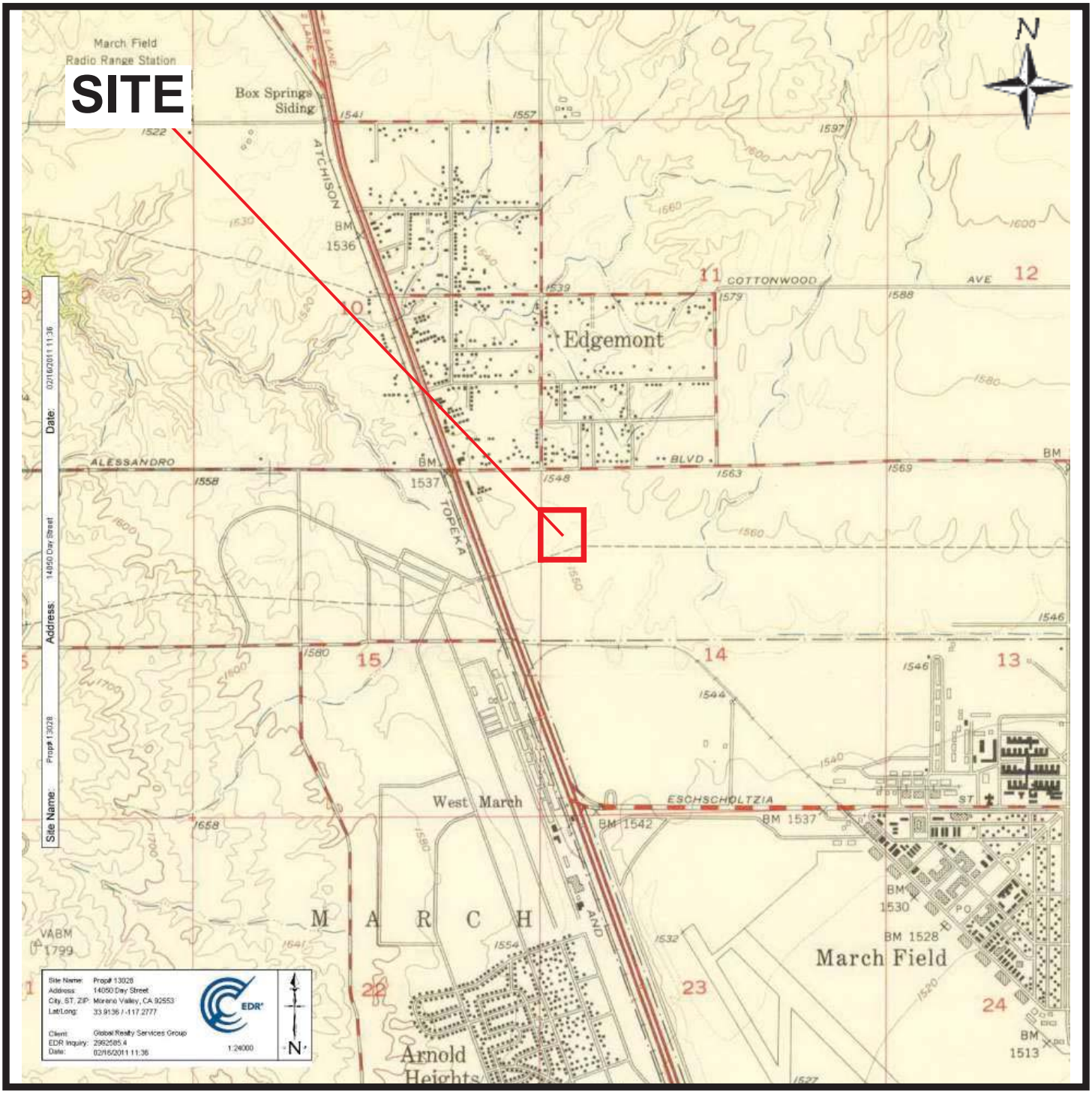


1947 Topographic Map

Prop# 13028

14050 Day Street

Moreno Valley, CA

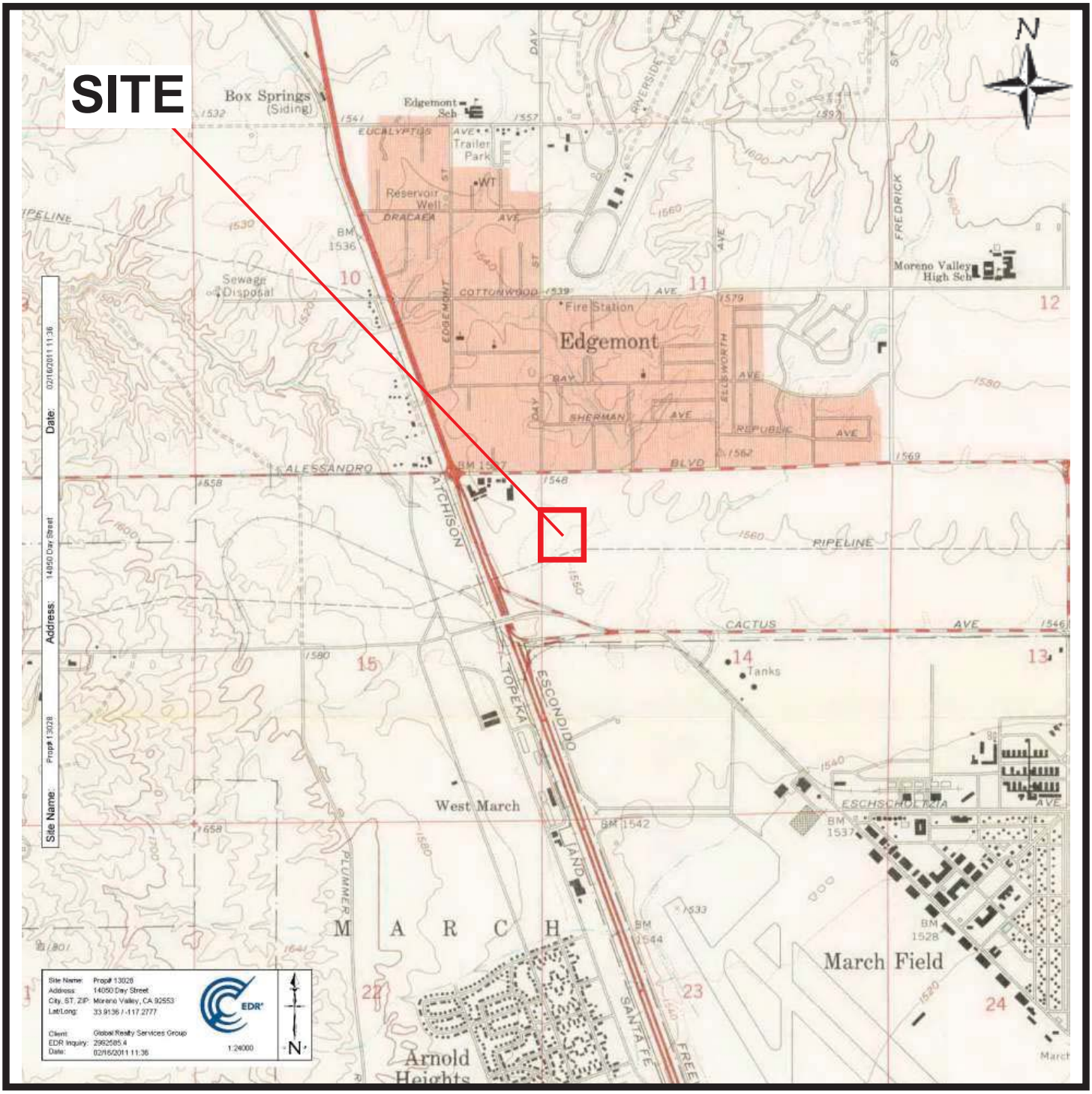


1953 Topographic Map

Prop# 13028

14050 Day Street

Moreno Valley, CA

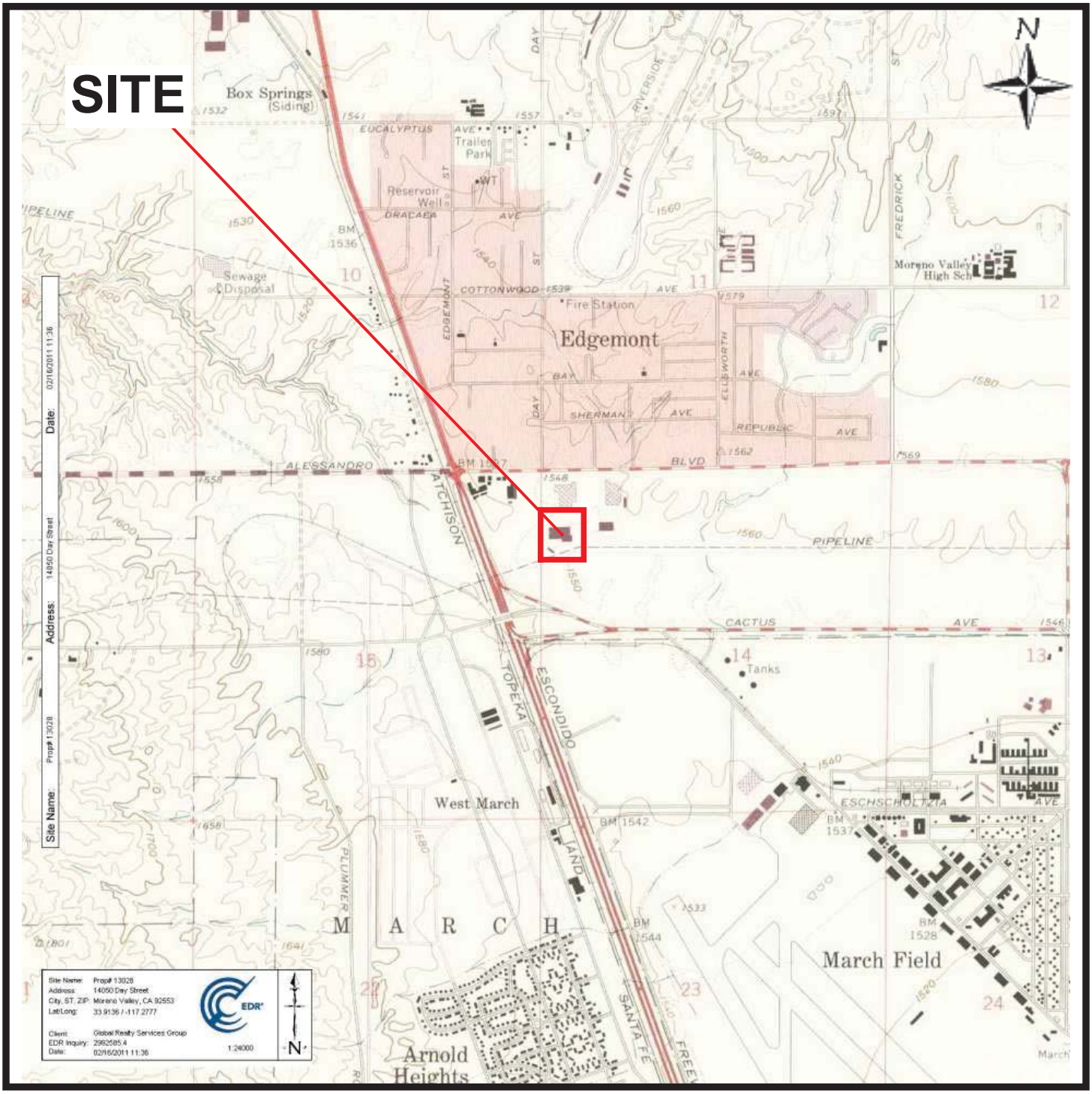


1967 Topographic Map

Prop# 13028

14050 Day Street

Moreno Valley, CA



1973 Topographic Map

Prop# 13028

14050 Day Street

Moreno Valley, CA

CITY DIRECTORY

Project Property:	*14050 Day Street* *14050 Day Street* *Moreno Valley, CA 92553*
Project No:	
Requested By:	*Weis Environmental, LLC*
Order No:	*21122800480*
Date Completed:	*January 4, 2022*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

January 4, 2022
RE: CITY DIRECTORY RESEARCH
14050 Day Street
14050 Day Street Moreno Valley, CA

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:
14000-22150 of Day Street

Search Results Summary

Date	Source	Comment
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2006-2007	HAINES	
2001	HAINES	
1998	DIGITAL BUSINESS DIRECTORY	
1991	HAINES	
1986	HAINES	
1971	HAINES	

2020
SOURCE: DIGITAL BUSINESS DIRECTORY

DAY STREET

14050 **BAS RECYCLING INC**...*Environmental & Ecological Services*
14050 **ENVIRONMENTAL MOLDING CONCEPTS**...*Photographerscommercial*
14050 **ENVIRONMENTAL MOLDING CONCEPTS**...*Federal Government Contractors*
14050 **ENVIRONMENTAL MOLDING CONCEPTS**...*Recycling Centers (whls)*
14050 **ENVIRONMENTAL MOLDING CONCEPTS**...*Manufacturers*

2016
SOURCE: DIGITAL BUSINESS DIRECTORY

DAY STREET

14050 **BAS RECYCLING INC**...*Environmental & Ecological Services*
14050 **ENVIRONMENTAL MOLDING CONCEPTS**...*Manufacturers*
14050 **ENVIRONMENTAL MOLDING CONCEPTS**...*Recycling Centers (whls)*

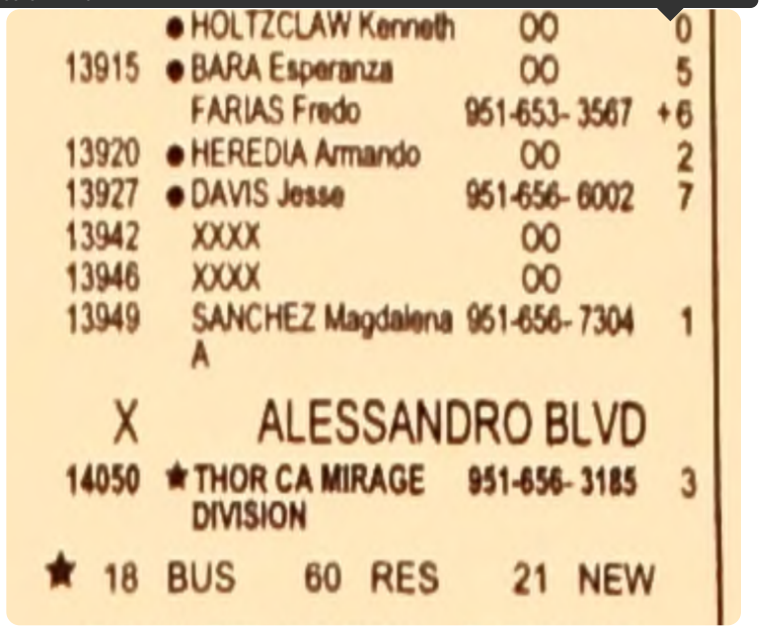
2012
SOURCE: DIGITAL BUSINESS DIRECTORY

DAY STREET

14050 **BAS RECYCLING INC**...*Environmental & Ecological Services*
14050 **ENVIRONMENTAL MOLDING CONCEPTS**...*Manufacturers*

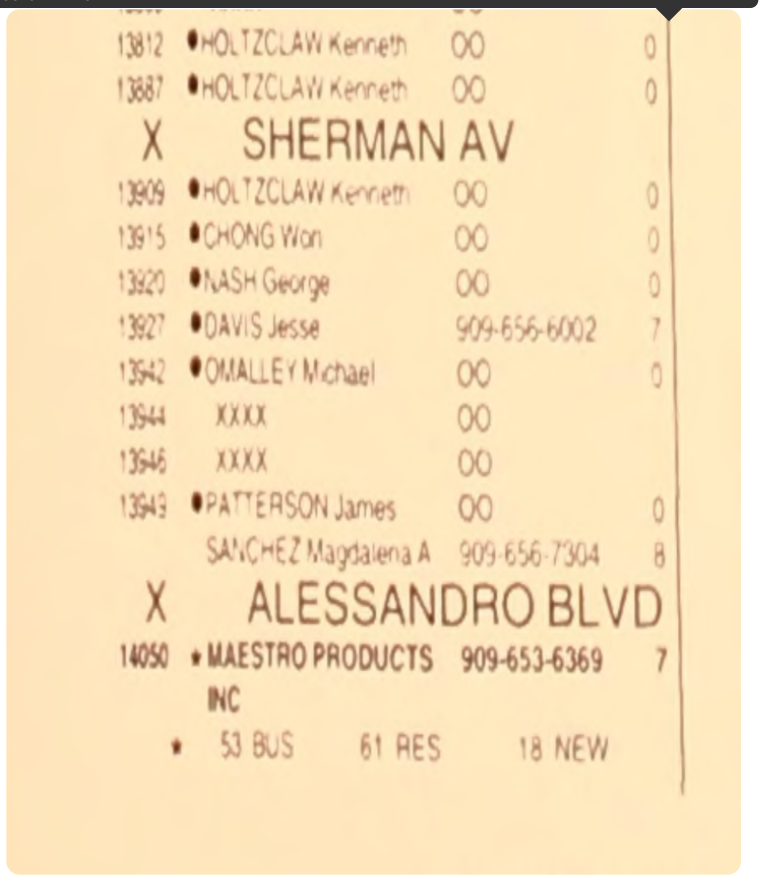
2006-2007
SOURCE: HAINES

DAY STREET



2001
SOURCE: HAINES

DAY STREET



13812	HOLTZCLAW Kenneth	OO	0
13887	HOLTZCLAW Kenneth	OO	0
X	SHERMAN AV		
13909	HOLTZCLAW Kenneth	OO	0
13915	CHONG Won	OO	0
13920	NASH George	OO	0
13927	DAVIS Jesse	909-656-6002	7
13942	OMALLEY Michael	OO	0
13944	XXXX	OO	
13946	XXXX	OO	
13949	PATTERSON James	OO	0
	SANCHEZ Magdalena A	909-656-7304	8
X	ALESSANDRO BLVD		
14050	MAESTRO PRODUCTS INC	909-653-6369	7
	53 BUS 61 RES 18 NEW		

1998
SOURCE: DIGITAL BUSINESS DIRECTORY

DAY STREET

14050 **MAESTRO PRODUCTS INC**...

1991
SOURCE: HAINES

DAY STREET

STREET NOT LISTED

1986
SOURCE: HAINES

DAY STREET

STREET NOT LISTED

1971
SOURCE: HAINES

DAY STREET

STREET NOT LISTED

--- END REPORT ---

APPENDIX E
PHOTOGRAPHS

1. View of the Site building from the northeast.

2. Northern view along the eastern Site boundary.

3. View of the Site from the southwest.

4. Western view along the southern Site boundary.

5. View of the Site from the southwest.

6. View of the Site from the northwest.

7. Eastern side of the Site building.

8. View of the Site from the southeast.

9. Southern side of the Site building.

10. Typical pallets and miscellaneous materials.

11. Used oil storage.

12. De minimis oil staining.

13. Liquid nitrogen tank (background) and dust collection systems (left).

14. Typical pile of shredded tires.

15. Electrical transformers.

16. Typical transformer.

17. Typical storage cabinets.

18. Building interior.

19. Typical drums of polyurethane binder.

20. Building interior.

21. Eastern adjacent property.

22. Southern adjacent property.

23. Western adjacent Day Street and commercial property.

24. Northern adjacent property.

APPENDIX F
QUALIFICATIONS

Dan Weis, R.E.H.S.

ENVIRONMENTAL MANAGER

1938 Kellogg Avenue, Suite 116, Carlsbad, CA 92008

(760) 585-7070 // (760) 672-6338 // dw@weisenviro.com // www.weisenviro.com

Professional Summary

Environmental Manager and California Registered Environmental Health Specialist with extensive expertise in environmental science and assessment, environmental and public health, risk assessment, health and safety, remedial design and implementation, strategic planning and project/program design and implementation. Over 20 years of professional experience and achievement. Successful completion of projects for a wide range of clientele including, but not limited to, local government entities, developers (affordable housing and market rate), educational institutions, Federal government entities, law firms, architectural and engineering firms, lending institutions, life insurance companies, conservancies, commercial/industrial real estate owners/managers, insurance companies, wireless telecommunication carriers and real estate developers. Extensive experienced in the completion of assessment, construction and remediation quality assurance during the completion of urban redevelopment/brownfields projects and public works projects, many of which have been located in downtown areas of San Diego, Los Angeles, Oakland, San Francisco, and other urban communities throughout the State of California. Proven ability to train and mentor professional, technical and support staff. Manages a comprehensive health and safety program. Holds a Master of Science in Public Health with an emphasis in environmental health science, risk assessment, health and safety, toxicology and environmental policy. Registered Environmental Health Specialist #8172 in the State of California.

Education and Professional Certification

- University of Delaware, Bachelor of Arts, 1995
- San Diego State University, Master of Science, Public/Environmental Health, 2001
- State of California Registered Environmental Health Specialist #8172
- Centers for Disease Control and Prevention National Center for Environmental Health Division of Emergency and Environmental Health Services - Environmental Health Training in Emergency Response
- Occupational Safety and Health Administration (OSHA) 40 Hour Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) Training and Annual 8 Hour HAZWOPER Refresher Training
- OSHA 8 Hour HAZWOPER Supervisor Training

Relevant Skills and Qualifications

- Proven ability to manage staff and programs/projects in challenging and diverse environments and regulatory settings. Consistently meets project schedules, goals, deadlines and budgetary restrictions.
- Completed or managed over 3,000 due diligence related environmental assessments and completed or managed over 500 subsurface environmental investigations of soil gas, soil, groundwater and other media. Investigations have included human health and ecological risk assessments, evaluations of indoor air conditions based on interpretations of subsurface conditions, underground storage tank (UST) evaluation/closure and hazardous waste characterization/management. Subsurface activities performed include the completion of soil borings using various drilling technologies, soil and groundwater sampling, installation and sampling of groundwater monitoring wells, free product evaluations, exploratory trenching and real-time delineation using mobile analytical laboratories and other soil screening technology.
- Managed over 100 remediation or construction management related projects primarily related to source removal of subsurface contaminants, including but not limited to, petroleum hydrocarbons, chlorinated solvents, heavy metals, organochlorine pesticides and other agricultural related chemicals, dioxins and furans and polychlorinated biphenyls. Has also assisted in cost recovery efforts from private parties and State/Federal funding programs for environmental assessment and remediation work and has served as an expert witness during legal proceedings pertaining to environmental related claims.
- Strong collaboration and negotiation skills with environmental regulatory agencies regarding project planning, initiation, status, approvals and implementation. Direct experience in interfacing with members of regulatory agencies including but not limited to the United States Environmental Protection Agency (EPA), California EPA Department of Toxic Substances

Control and Office of Environmental Health Hazard Assessment, County of San Diego Departments of Environmental Health (DEH), Public Works and Planning and Land Use, San Diego Air Pollution Control District, South Coast Air Quality Management District, Riverside County DEH, San Francisco City and County Department of Public Health (DPH), Arizona Department of Environmental Quality, County of Los Angeles County DPH and other local Certified Unified Program Agencies. Develop, manage and implement compliance and best practices efforts with Federal and State laws and regulations.

- Conducted and/or managed hundreds of public/environmental health related assessments including electromagnetic field surveys, radionuclide surveys, indoor air quality investigations, radon surveys, drinking water assessments, asbestos containing materials and lead-based paint surveys and mold/microbial evaluations.
- Recovered over $10,000,000 of assessment and cleanup costs for clientele from various sources including State of California Cleanup Funds, United States Environmental Protection Agency Brownfield grants and private parties including major oil companies.
- Responsible for facilitating a safe and healthy work environment in concert with the mission of the company while ensuring compliance with applicable Federal, State, and local regulations.
- Published technical papers pertaining to geogenic concentrations of metals in San Diego County, radioactive dating and pollutant chronologies in estuarine sediments and various urban runoff related implications.
- Delivered presentations pertaining to various environmental topics including human health risk assessment to membership at local and national trade conferences

Project Experience (Projects Completed at Multiple Firms)

- 14th and Island, San Diego, California – Development of Site Mitigation Plan, contaminated soil management and disposal concurrent with site construction activities at the superblock construction site in downtown San Diego and achievement of regulatory closure with the County of San Diego Department of Environmental Health.
- 2198 Market Street, San Francisco, California – Phase I and II Environmental Site Assessments, supplemental subsurface investigation, Site Mitigation Plan development, contaminated soil management and disposal concurrent with site construction activities and negotiation/achievement of regulatory closure with the City of San Francisco Department of Public Health.
- Former EZ Serve, 9305 Mission Gorge Road, Santee, California – Closure report preparation and San Diego Regional Water Quality Control Board interface and negotiation/achievement of regulatory closure under State of California low-threat policy.
- French Field – Former Vista Burn Dump, Oceanside, California – Oversight of the capping of a former burn dump/landfill facility and restoration for public use as a sports facility. Negotiation and achievement of regulatory closure with the California Department of Toxic Substances Control with concurrence from the San Diego Regional Water Quality Control Board and the County of San Diego Local Enforcement Agency.
- Indoor Skydiving Facility, 1401 Imperial Avenue, San Diego, California – Development of Soil Management Plan and contaminated soil management and disposal concurrent with site construction activities in downtown San Diego.
- Lemon Grove Avenue Realignment Project, Lemon Grove, California – Development of Impacted Soil Management Plan, Community Health and Safety Plan and Worker Health and Safety Plan and oversight of the implementation of such plans during construction activities.
- North Side Interior Road and Utilities Project at San Diego International Airport, San Diego, California - Subsurface assessment, development of Soil Management Plan and Work Health and Safety Plan and implementation and monitoring of soil management strategies.
- Olympic and Hill, Los Angeles, California – Removal of multiple underground storage tanks and underlying contaminated soil and achievement of regulatory closure with the City of Los Angeles Fire Department.
- San Ysidro - U.S. Land Port of Entry, San Diego, California – Subsurface assessment and development and implementation of soil management strategies.
- VA Medical Center Long Beach, 5901 East 7th Street, Long Beach, California - VA Long Beach: Seismic Corrections – Mental Health, Community Living Center and Chiller Replacements Project – Asbestos containing materials and lead-based paint surveys and preparation of abatement contractor bid specifications.

Appendix 5: LID Infeasibility

LID Technical Infeasibility Analysis

N/A

Appendix 6: BMP Design Details

BMP Sizing, Design Details and other Supporting Documentation

Santa Ana Watershed - BMP Design Volume, V_{BMP}

(Rev. 10-2011)

Legend: Required Entries / Calculated Cells

*(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)*

Company Name	Albert A. Webb Associates	Date	9/27/2022
Designed by	ABE	Case No	LWQ22-0030
Company Project Number/Name	FIR Day Street (PEN22-0144)		

BMP Identification

BMP NAME / ID: BMP-A

Must match Name/ID used on BMP Design Calculation Sheet

Design Rainfall Depth

85th Percentile, 24-hour Rainfall Depth, from the Isohyetal Map in Handbook Appendix E

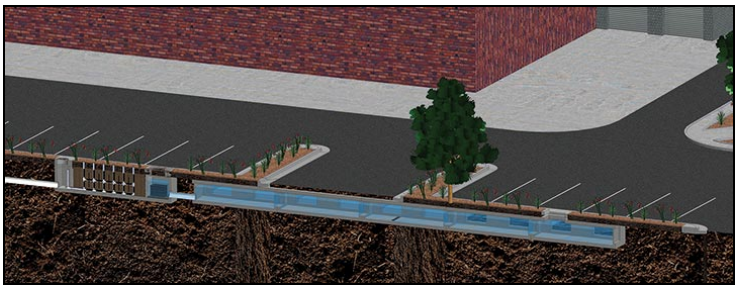
D_{85} = 0.62 inches

Drainage Management Area Tabulation

Insert additional rows if needed to accommodate all DMAs draining to the BMP

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Imperivous Fraction, I_f	DMA Runoff Factor	DMA Areas x Runoff Factor	*Design Storm Depth (in)*	*Design Capture Volume, V_{BMP} (cubic feet)*	*Proposed Volume on Plans (cubic feet)*
L-A	*35602*	*Ornamental Landscaping*	*0.1*	*0.11*	*3932.5*			
R-A	*161935*	*Roofs*	*1*	*0.89*	*144446*			
H-A	*151487*	*Concrete or Asphalt*	*1*	*0.89*	*135126.4*			
	349024		***Total***		**283504.9**	**0.62**	***14553.3***	***15109***

Notes:



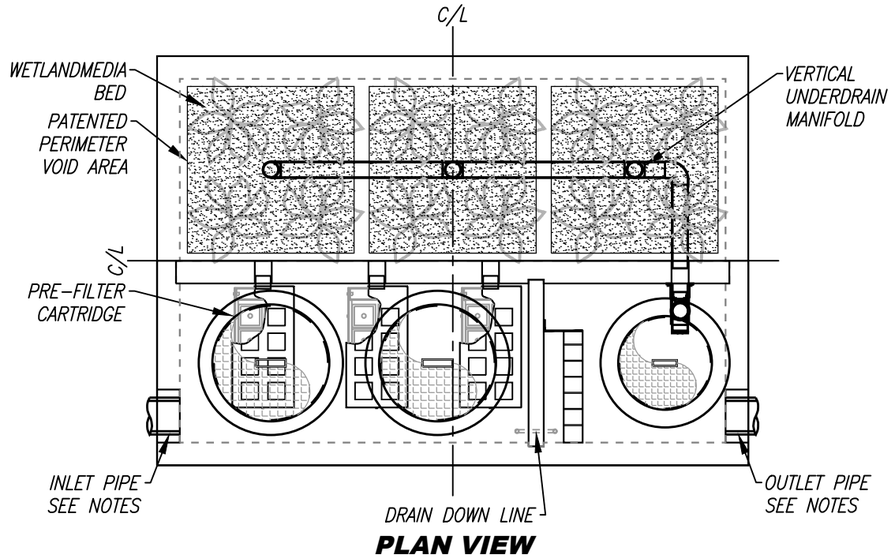
Volume Based Sizing

Many states require treatment of a water quality volume and do not offer the option of flow based design. The MWS Linear and its unique horizontal flow makes it the only biofilter that can be used in volume based design installed downstream of ponds, detention basins, and underground storage systems.

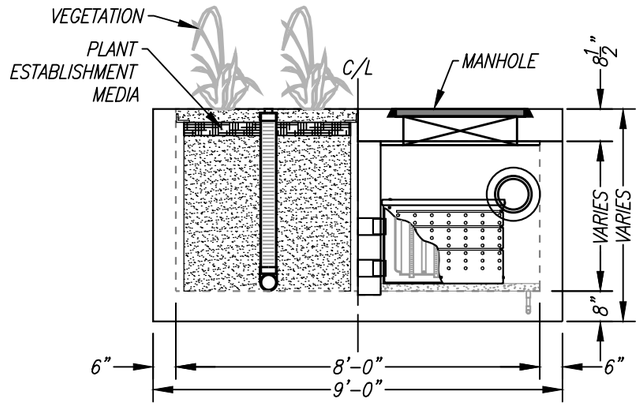
Model #	Treatment Capacity (cu. ft.) @ 24-Hour Drain Down	Treatment Capacity (cu. ft.) @ 48-Hour Drain Down
MWS-L-4-4	1140	2280
MWS-L-4-6	1600	3200
MWS-L-4-8	2518	5036
MWS-L-4-13	3131	6261
MWS-L-4-15	3811	7623
MWS-L-4-17	4492	8984
MWS-L-4-19	5172	10345
MWS-L-4-21	5853	11706
MWS-L-6-8	3191	6382
MWS-L-8-8	5036	10072
MWS-L-8-12	7554	15109
MWS-L-8-16	10073	20145
MWS-L-8-20	12560	25120
MWS-L-8-24	15108	30216

SITE SPECIFIC DATA			
PROJECT NUMBER			
PROJECT NAME			
PROJECT LOCATION			
STRUCTURE ID			
TREATMENT REQUIRED			
VOLUME BASED (CF)		FLOW BASED (CFS)	
N/A		0.346	
PEAK BYPASS REQUIRED (CFS) – IF APPLICABLE			OFFLINE
PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2	N/A	N/A	N/A
OUTLET PIPE			
	PRETREATMENT	BIOFILTRATION	DISCHARGE
RIM ELEVATION			
SURFACE LOAD	PEDESTRIAN		
FRAME & COVER	2EA ø30"	OPEN PLANTER	ø24"
NOTES:			

* PRELIMINARY NOT FOR CONSTRUCTION



PLAN VIEW



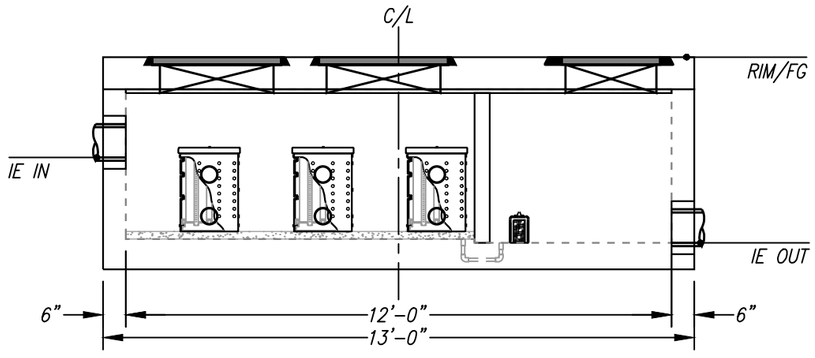
LEFT END VIEW

INSTALLATION NOTES

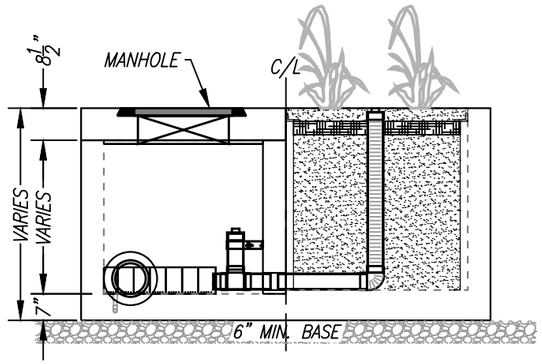
1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURERS CONTRACT.
2. UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE TO VERIFY PROJECT ENGINEERS RECOMMENDED BASE SPECIFICATIONS.
4. CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE. (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATER TIGHT PER MANUFACTURERS STANDARD CONNECTION DETAIL.
5. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL RISERS, MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE.
6. VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND INSTALLED BY OTHERS.
7. CONTRACTOR RESPONSIBLE FOR CONTACTING BIO CLEAN FOR ACTIVATION OF UNIT. MANUFACTURERS WARRANTY IS VOID WITH OUT PROPER ACTIVATION BY A BIO CLEAN REPRESENTATIVE.

GENERAL NOTES

1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT BIO CLEAN.



ELEVATION VIEW



RIGHT END VIEW

TREATMENT FLOW (CFS)	0.346
OPERATING HEAD (FT)	3.4
PRETREATMENT LOADING RATE (GPM/SF)	2.0
WETLAND MEDIA LOADING RATE (GPM/SF)	1.0

MWS-L-8-12-V
STORMWATER BIOFILTRATION SYSTEM
STANDARD DETAIL

5/23/19 10:EF

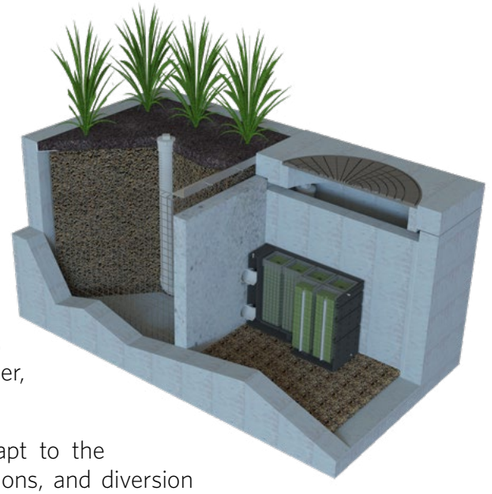
Bio Clean

A Forterra Company

Modular Wetlands® Linear

A Stormwater Biofiltration Solution

OVERVIEW



The Modular Wetlands® Linear is the only biofiltration system to utilize patented horizontal flow, allowing for a smaller footprint, higher treatment capacity, and a wide range of adaptability. The Modular Wetlands® is also the only pre-packaged subsurface flow wetland for stormwater treatment. While most biofilters use little or no pretreatment, the Modular Wetlands Linear incorporates an advanced pretreatment chamber that includes separation and pre-filter boxes. In this chamber, sediment and hydrocarbons are removed from runoff before entering the biofiltration chamber, reducing maintenance costs and improving performance.

Horizontal flow also gives the system the unique ability to adapt to the environment through a variety of configurations, bypass orientations, and diversion applications.

The Urban Impact

For hundreds of years, natural wetlands surrounding our shores have played an integral role as nature's stormwater treatment system. But as cities grow and develop, our environment's natural filtration systems are blanketed with impervious roads, rooftops, and parking lots.

Bio Clean understands this loss and has spent years re-establishing nature's presence in urban areas, and rejuvenating waterways with the Modular Wetlands Linear.

*Also known as: Modular Wetlands®, Modular Wetlands® System Linear, Modwet™, or MWS Linear™.

PERFORMANCE

The Modular Wetlands Linear continues to outperform other treatment methods with superior pollutant removal for TSS, heavy metals, nutrients, hydrocarbons, and bacteria. The Modular Wetlands Linear is field-tested on numerous sites across the country and is proven to effectively remove pollutants through a combination of physical, chemical, and biological filtration processes.

66% REMOVAL OF DISSOLVED ZINC	**69%** REMOVAL OF TOTAL ZINC	**38%** REMOVAL OF DISSOLVED COPPER	**85%** REMOVAL OF TSS	**100%** REMOVAL OF TRASH
45% REMOVAL OF NITROGEN	**50%** REMOVAL OF TOTAL COPPER	**95%** REMOVAL OF MOTOR OIL	**67%** REMOVAL OF ORTHO PHOSPHORUS	**64%** REMOVAL OF TOTAL PHOSPHORUS

APPROVALS

The Modular Wetlands® Linear has successfully met years of challenging technical reviews and testing from some of the most prestigious and demanding agencies in the nation and perhaps the world.
Here is a list of some of the most high-profile approvals, certifications, and verifications from around the country.

Washington State Department of Ecology TAPE Approved

The Modular Wetlands Linear (MWS-Linear) is approved for General Use Level Designation (GULD) for Basic, Enhanced, and Phosphorus treatment at 1 gpm/ft^2 loading rate. The highest performing BMP on the market for all main pollutant categories.

California Water Resources Control Board, Full Capture Certification

The Modular Wetlands® Linear is the first biofiltration system to receive certification as a full capture trash treatment control device.

Virginia Department of Environmental Quality, Assignment

The Virginia Department of Environmental Quality assigned the Modular Wetlands Linear the highest phosphorus removal rating for manufactured treatment devices to meet the new Virginia Stormwater Management Program (VSMP) regulation technical criteria.

Maryland Department of the Environment, Approved ESD

Granted Environmental Site Design (ESD) status for new construction, redevelopment, and retrofitting when designed in accordance with the design manual.

MASTEP Evaluation

The University of Massachusetts at Amherst – Water Resources Research Center issued a technical evaluation report noting removal rates up to 84% TSS, 70% total phosphorus, 68.5% total zinc, and more.

Rhode Island Department of Environmental Management BMP Approval

Texas Commission on Environmental Quality (TCEQ) Approval

Atlanta Regional Commission Certification

ADVANTAGES

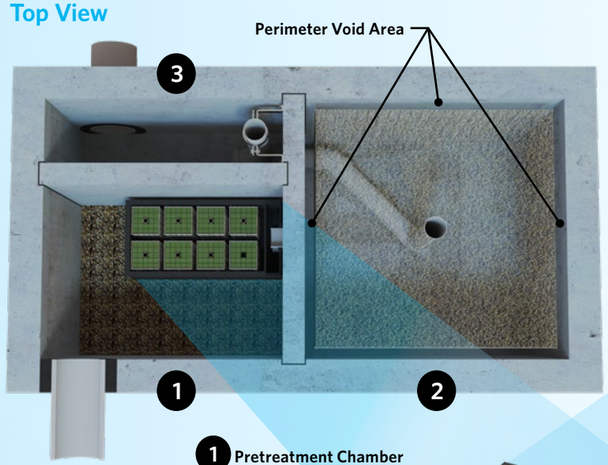
- HORIZONTAL FLOW BIOFILTRATION
- GREATER FILTER SURFACE AREA
- PRETREATMENT CHAMBER
- PATENTED PERIMETER VOID AREA
- FLOW CONTROL
- NO DEPRESSED PLANTER AREA
- AUTO DRAINDOWN MEANS NO MOSQUITO VECTOR

DIAGRAMS

The Modular Wetlands® Linear biofilter supports superior root penetration and plant uptake of metals and nutrients with treatment that includes both aerobic and anaerobic zones.

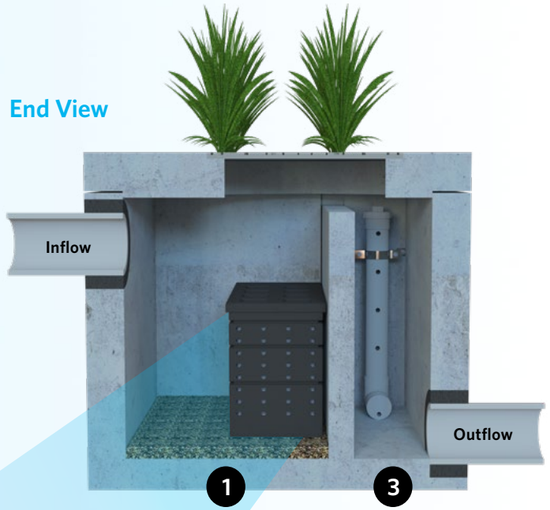
Modular Wetlands Linear
Display Unit - 4x8 Vault Type Unit

Top View

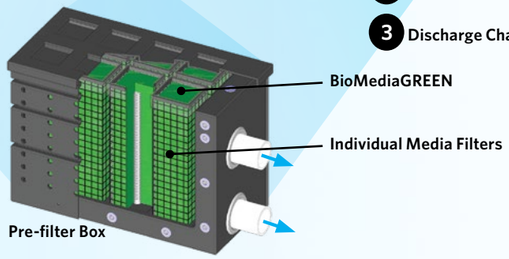


1 Pretreatment Chamber
2 Biofiltration Chamber
3 Discharge Chamber

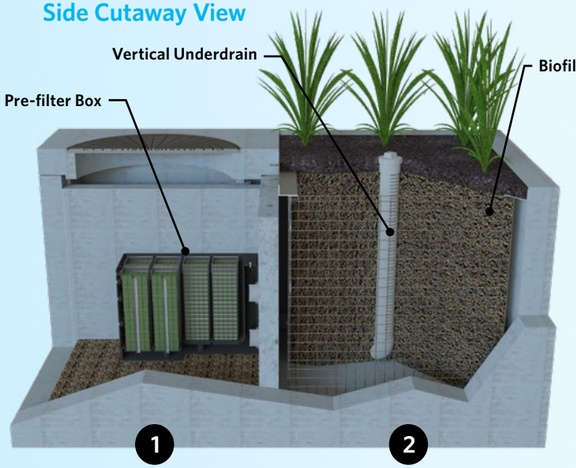
End View



1 Pretreatment Chamber
3 Discharge Chamber

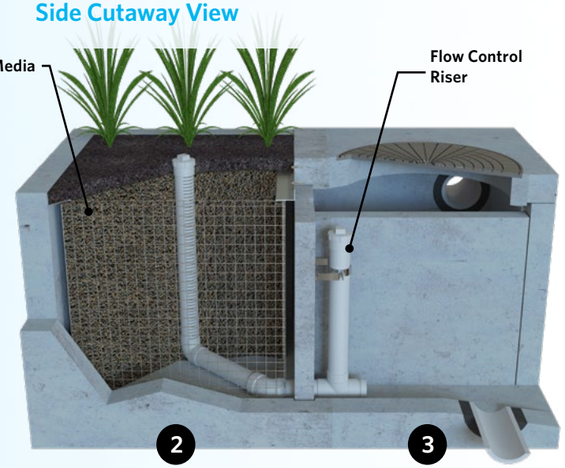


Side Cutaway View



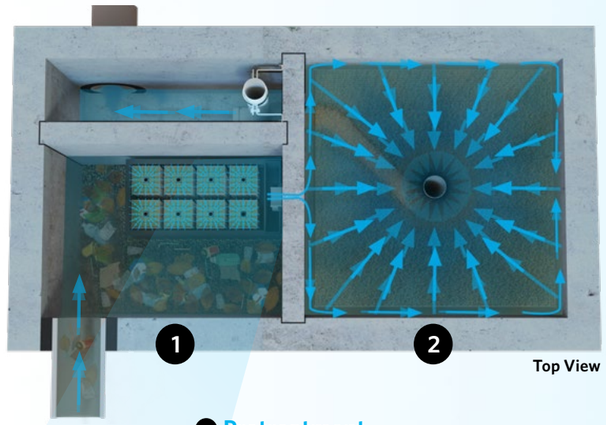
1 Pretreatment Chamber
2 Biofiltration Chamber

Side Cutaway View



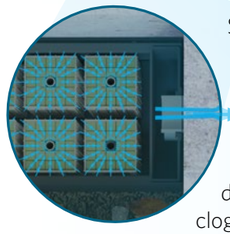
2 Biofiltration Chamber
3 Discharge Chamber

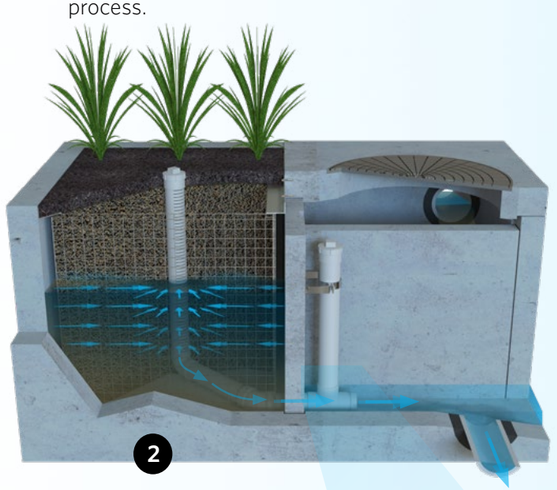
OPERATION



1 Pretreatment

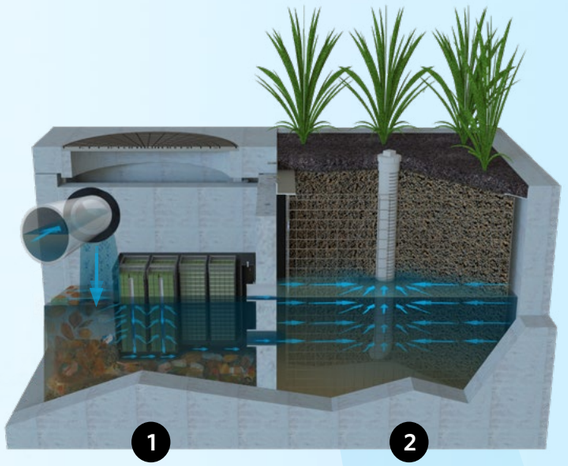
Stormwater and other pollutants all enter the pretreatment chamber first. The larger material remains contained within the pretreatment stage as stormwater travels through the pre-filter boxes and on to the biofiltration chamber. This design enhances treatment, prevents clogging, and expedites the maintenance process.





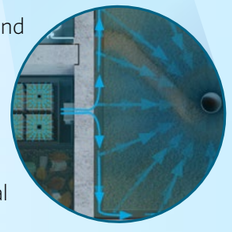
3 Discharge

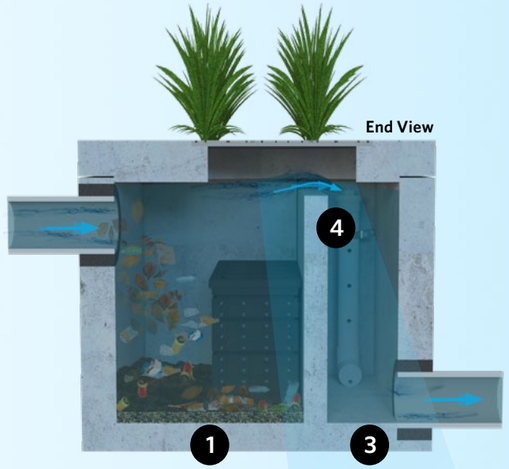
In the final stage or discharge chamber, the flow control riser (shown in the close-up) and the orifice plate, control the flow of water through the media to a level lower than the media's capacity. This extends the life of the media and improves performance.



2 Biofiltration

As water leaves the pre-filter box and enters the biofiltration chamber, it initially fills the void space at the perimeter of the biofiltration chamber. The water's horizontal force grows, pushing it inward toward the centrally located vertical drain pipe, and out to discharge.





4 Bypass

In a side-by-side Modular Wetlands unit, the pretreatment and discharge chambers are adjacent to each other. Another unique advantage of horizontal flow. This allows unusually large flows to bypass the system to avoid flooding.

SIZING CHART

FLOW-BASED DESIGNS

The Modular Wetlands® Linear can be used in stand-alone applications to meet treatment flow requirements, and since it is the only biofiltration system that can accept inflow pipes several feet below the surface, it can be used in decentralized design applications as well as large central end-of-the-line applications.

Model #	Dimensions	WetlandMEDIA Surface Area (sq.ft.)	Treatment Flow Rate (cfs)
TIER 1: EXPRESS MODELS Express model options give our customers an opportunity to benefit from optimal lead times, pricing, and the industry's leading MTD.			
MWS-L-4-8	**4'x8'**	**50**	**0.115**
MWS-L-8-8	**8'x8'**	**100**	**0.230**
TIER 2: PREFERRED MODELS Preferred model sizes give our customers a dependable selection with favorable lead times and dependable pricing.			
MWS-L-4-4	4'x4'	23	0.052
MWS-L-4-6	4'x6'	32	0.073
MWS-L-4-8	**4'x8'**	**50**	**0.115**
MWS-L-8-8	**8'x8'**	**100**	**0.230**
MWS-L-8-12	8'x12'	151	0.346
MWS-L-8-16	8'x16'	201	0.462
MWS-L-8-20	8'x20'	252	0.577
MWS-L-8-24	8'x24'	302	0.693
TIER 3: CUSTOM Custom sizes and applications are always available upon project review, but they may include supplemental lead times and pricing.			

APPLICATIONS

The Modular Wetlands® Linear has been successfully used on numerous new construction and retrofit projects. The system's superior versatility makes it beneficial for a wide range of stormwater and waste water applications.

INDUSTRIAL

The Modular Wetlands has helped various sites meet difficult EPA-mandated effluent limits for dissolved metals and other pollutants.

RESIDENTIAL

Low to high density developments can benefit from the versatile design of the Modular Wetlands. The system can be used in both decentralized LID design and cost-effective end-of-the-line configurations.

STREETS

The Modular Wetlands is extremely space efficient, and adept to meeting special constraints of existing utilities on retrofit projects.

PARKING LOTS

Parking lots are designed to maximize space and the Modular Wetlands' 4 ft. standard planter width allows for easy integration into parking lot islands and other landscape medians.

COMMERCIAL

Compared to bioretention systems, the Modular Wetlands can treat far more area in less space, meeting treatment and volume control requirements.

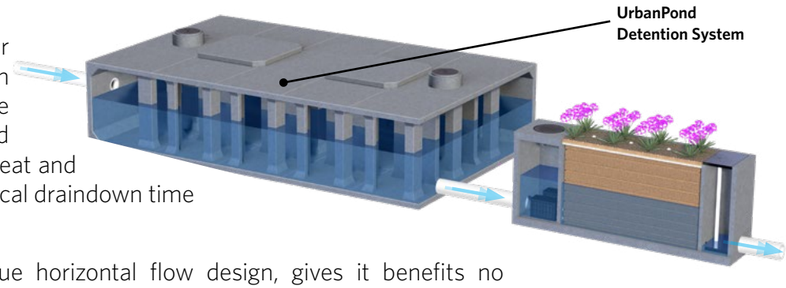
More applications include:

• Agriculture • Reuse • Low Impact Development • Waste Water • Mixed Use

HORIZONTAL FLOW ADVANTAGES

VOLUME-BASED DESIGNS

URBANPOND™ PRESTORAGE



In the example above, the Modular Wetlands Linear is installed downstream of the UrbanPond storage system. The Modular Wetlands Linear is designed for the water quality volume and will treat and discharge the required volume within local draindown time requirements.

The Modular Wetlands Linear's unique horizontal flow design, gives it benefits no other biofilter has - the ability to be placed downstream of detention ponds, extended dry detention basins, underground storage systems and permeable paver reservoirs. The system's horizontal flow configuration and built-in orifice control allows it to be installed with just 6" of fall between inlet and outlet pipe for a simple connection to projects with shallow downstream tie-in points.

DESIGN SUPPORT

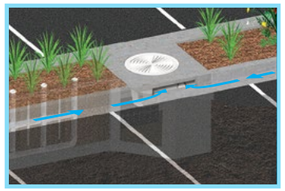
Volume control and hydromodification regulations are expanding the need to decrease the cost and size of your biofiltration system. Bio Clean will help you realize these cost savings with the Modular Wetlands Linear. Bio Clean engineers are aware of state and local regulations, and they are trained to provide you with superior support, so they can optimize a system to maximize feasibility.

ADVANTAGES

- LOWER COST THAN FLOW-BASED DESIGN
- MEETS LID REQUIREMENTS
- BUILT-IN ORIFICE CONTROL STRUCTURE
- WORKS WITH DEEP INSTALLATIONS

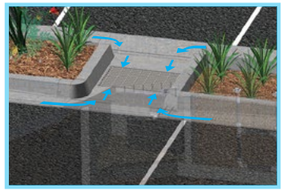
CONFIGURATIONS

The Modular Wetlands® Linear is the preferred biofiltration system of civil engineers across the country due to its versatile design. This highly versatile system has available "pipe-in" options on most models, along with built-in curb or grated inlets for simple integration into your storm drain design.



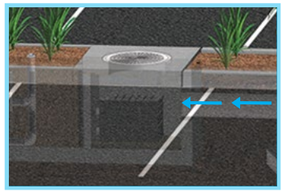
CURB TYPE

The Curb Type configuration accepts sheet flow through a curb opening and is commonly used along roadways and parking lots. It can be used in sump or flow-by conditions. Length of curb opening varies based on model and size.



GRATE TYPE

The Grate Type configuration offers the same features and benefits as the Curb Type but with a grated/drop inlet above the system's pretreatment chamber. It has the added benefit of allowing pedestrian access over the inlet. The Grate Type can also be used in scenarios where runoff needs to be intercepted on both sides of landscape islands.



VAULT TYPE

Modular Wetlands® can be used in end-of-the-line installations. This greatly improves feasibility over typical decentralized designs that are required with other biofiltration/bioretention systems. Another benefit of the "pipe-in" design is the ability to install the system downstream of underground detention systems to meet water quality volume requirements, or for traffic-rated designs (no plants).

DOWNSPOUT TYPE

The Downspout Type is a variation of the Vault Type and is designed to accept a vertical downspout pipe from rooftop and podium areas. Some models have the option of utilizing an internal bypass, simplifying the overall design. The system can be installed as a raised planter, and the exterior can be stuccoed or covered with other finishes to match the look of adjacent buildings.

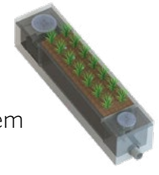
ORIENTATIONS

Side-by-Side (Internal Bypass)

The Side-by-Side orientation places the pretreatment and discharge chamber adjacent to one another with the biofiltration chamber running parallel on either side.

End-to-End

The End-To-End orientation places the pretreatment and discharge chambers on opposite ends of the biofiltration chamber, therefore minimizing the width of the system to 5 ft. (outside dimension).

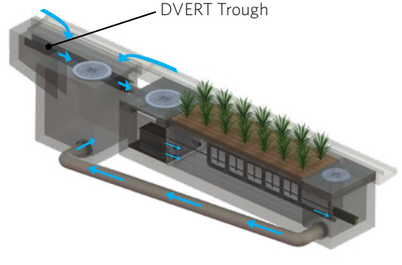


Dvert Low-Flow Diversion

A simple diversion trough can be installed in existing or new curb and grate inlets to divert the first flush to the Modular Wetlands Linear, and then back to the catch basin outlet.

External Diversion Weir Structure

This traditional offline diversion method can be used with the Modular Wetlands® Linear in scenarios where runoff is being piped to the system.



PLANT SELECTION

Abundant plants, trees, and grasses bring value and an aesthetic benefit to any urban setting, but those in the Modular Wetlands® System Linear do even more - they increase pollutant removal. What's not seen, but very important, is that below grade, the stormwater runoff/flow is being subjected to nature's secret weapon: a dynamic physical, chemical, and biological process working to break down and remove non-point source pollutants. The flow rate is controlled in the Modular Wetlands®, giving the plants more contact time so that pollutants are more successfully decomposed, volatilized, and incorporated into the biomass of the Modular Wetlands'® micro/macro flora and fauna.

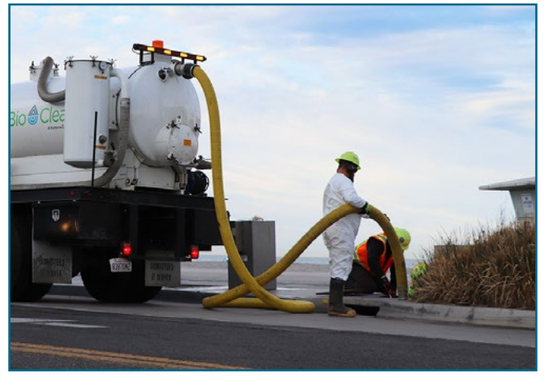
A wide range of plants are suitable for use in the Modular Wetlands®, but selections vary by location and climate. View suitable plants by visiting biocleanenvironmental.com/plants.

INSTALLATION

The Modular Wetlands® is simple, easy to install, and has a space-efficient design that offers lower excavation and installation costs compared to traditional tree-box type systems. The structure of the system resembles precast catch basin or utility vaults and is installed in a similar fashion.

The system is delivered fully assembled for quick installation. Generally, the structure can be unloaded and set in place in 15 minutes. Our experienced team of field technicians is available to supervise installations and provide technical support.

MAINTENANCE



Reduce your maintenance costs, man hours, and materials with the Modular Wetlands®. Unlike other biofiltration systems that provide no pretreatment, the Modular Wetlands® is a self-contained treatment train which incorporates simple and effective pretreatment.

Maintenance requirements for the biofilter itself are almost completely eliminated, as the pretreatment chamber removes and isolates trash, sediments, and hydrocarbons. What's left is the simple maintenance of an easily accessible pretreatment chamber that can be cleaned by hand or with a standard vac truck. Only periodic replacement of low-cost media in the pre-filter cartridges is required for long-term operation, and there is absolutely no need to replace expensive biofiltration media.

Bio Clean
A Forterra Company

398 Via El Centro
Oceanside, CA 92058
855.566.3938
stormwater@forterrabp.com
biocleanenvironmental.com

0830_2021

User Inputs

Chamber Model:	MC-7200
Outlet Control Structure:	Yes
Project Name:	FIR Day Street
Engineer:	N/A
Project Location:	California
Measurement Type:	Imperial
Required Storage Volume:	14900 cubic ft.
Stone Porosity:	40%
Stone Foundation Depth:	9 in.
Stone Above Chambers:	12 in.
Average Cover Over Chambers:	24 in.
Design Constraint Dimensions:	(60 ft. x 70 ft.)

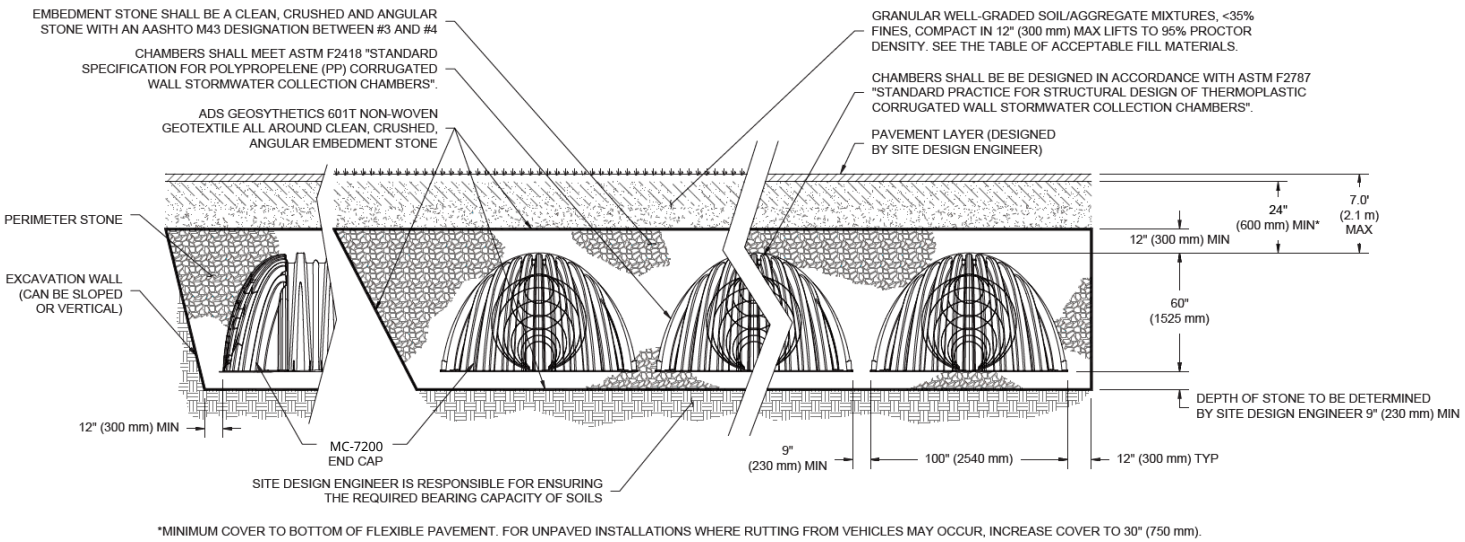
Results

System Volume and Bed Size

Installed Storage Volume:	15878.74 cubic ft.
Storage Volume Per Chamber:	175.90 cubic ft.
Number Of Chambers Required:	50
Number Of End Caps Required:	12
Chamber Rows:	6
Maximum Length:	70.92 ft.
Maximum Width:	56.35 ft.
Approx. Bed Size Required:	3821.24 square ft.

System Components

Amount Of Stone Required:	612.01 cubic yards
Volume Of Excavation (Not Including Fill):	955.31 cubic yards
Total Non-woven Geotextile Required:	1255.53 square yards
Woven Geotextile Required (excluding Isolator Row):	106.17 square yards
Woven Geotextile Required (Isolator Row):	151.18 square yards
Total Woven Geotextile Required:	257.35 square yards



*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 30" (750 mm).

Advanced Drainage Systems, Inc.

SiteASSIST™
FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-7200.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/IN/IN. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418 AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

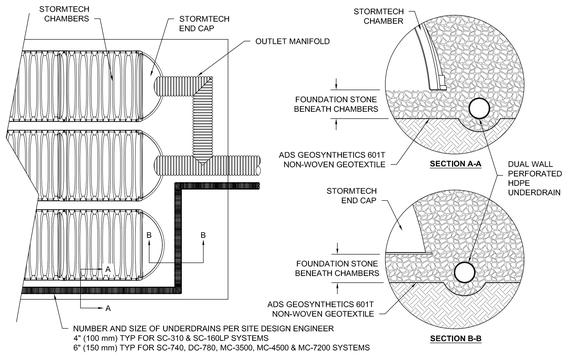
1. STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
10. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
11. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
12. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

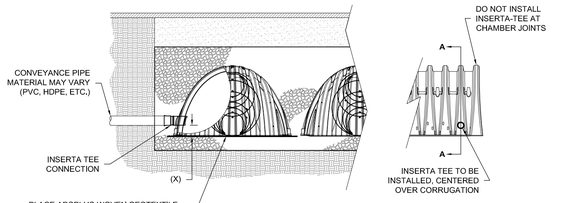
1. STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



5 UNDERDRAIN DETAIL



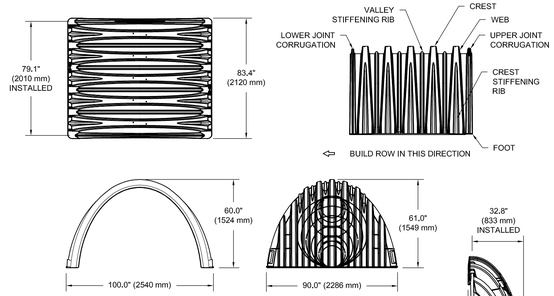
SECTION A-A

CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

SIDE VIEW

NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

6 INSERTA-TEE SIDE INLET DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 79.1"	(2540 mm X 1524 mm X 2010 mm)
CHAMBER STORAGE	175.9 CUBIC FEET	(4.98 m³)
MINIMUM INSTALLED STORAGE*	267.3 CUBIC FEET	(7.56 m³)
WEIGHT (NOMINAL)	205 lbs.	(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

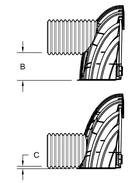
SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC7200IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC7200IEPP06B		---	0.86" (22 mm)
MC7200IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC7200IEPP08B		---	1.01" (26 mm)
MC7200IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC7200IEPP10B		---	1.33" (34 mm)
MC7200IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC7200IEPP12B		---	1.55" (39 mm)
MC7200IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC7200IEPP15B		---	1.70" (43 mm)
MC7200IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC7200IEPP18TW			
MC7200IEPP18B		---	1.97" (50 mm)
MC7200IEPP18BW			
MC7200IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC7200IEPP24TW			
MC7200IEPP24B		---	2.26" (57 mm)
MC7200IEPP24BW			
MC7200IEPP30BW	30" (750 mm)	---	2.95" (75 mm)
MC7200IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC7200IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12"-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

2 MC-7200 TECHNICAL SPECIFICATIONS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

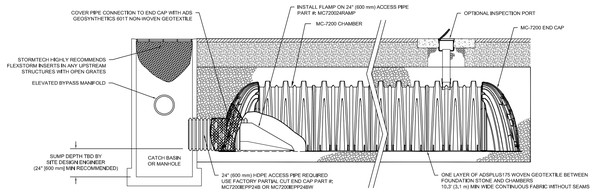
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1,1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

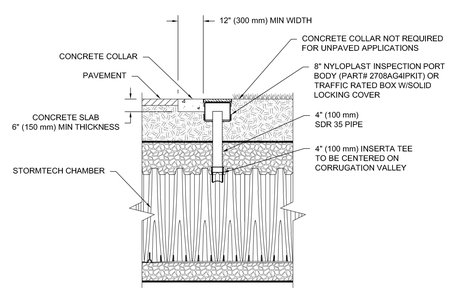
STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

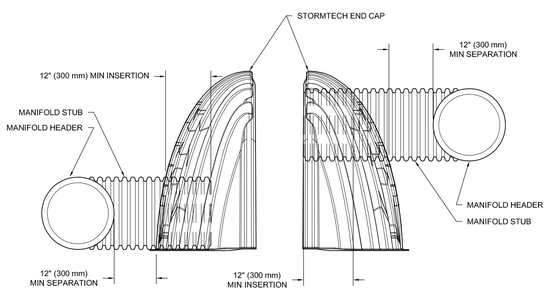


3 MC-7200 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4 4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)



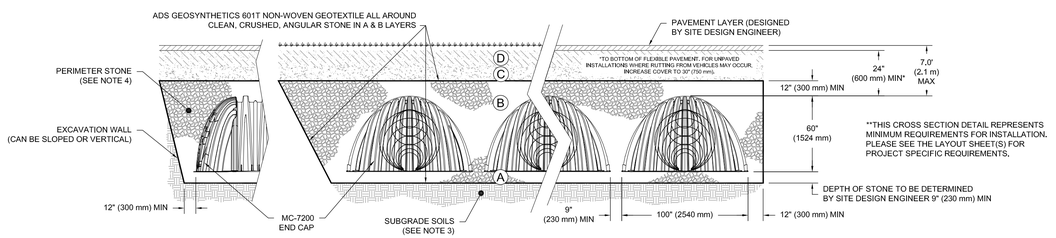
NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

7 MC-SERIES END CAP INSERTION DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS, PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED, COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
2. MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-7200 CROSS SECTION DETAIL

DRAWN: | DATE:
REVIEWED: | PROJECT NO:
REV: | NOT TO SCALE

MC-7200 STANDARD DETAILS

StormTech® Chamber System
888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026

Advanced Drainage Systems, Inc.

SHEET

Appendix 7: Hydromodification

Supporting Detail Relating to Hydrologic Conditions of Concern

City of Moreno Valley Watershed Boundaries

Project Site
First Day Street
Logistics

SANTA ANA RIVER WATERSHED
SAN JACINTO VALLEY WATERSHED
MYSTIC LAKE WATERSHED

Pigeon Pass Dam

MORENO VALLEY
RIVERSIDE
CALIMESA
BEAUMONT
PERRIS
LAKE PERRIS

Delineation Type
- Controlled Release Point
- Engineered, Fully Hardened, and Maintained
- Engineered, Partially Hardened, and Maintained
- Engineered, Earthen, and Maintained
- Not Engineered and Earthen
- Natural

Watercourse Susceptibility Type
- Not Susceptible
- Potentially Susceptible
- Mitigation May Be Required
- Mitigation Not Required
- Watershed Boundary

- Waterbodies
- Roads
- Highways
- City Boundaries
- March Air Reserve Base

N

0 5,000 10,000 Feet

The information shown on this map was compiled from the Riverside County GIS and the City of Moreno Valley GIS. The land base and facility information on this map is for display purposes only and should not be relied upon without independent verification as to its accuracy.Riverside County and City of Moreno Valley will not be held responsible for any claims, losses or damages resulting from the use of this map.

City of Moreno Valley Geographic Information in:
State Plane NAD 83 California Zone 6 Feet
T:\Divisions\NPDES\2017\MXD
\MVWatershedAllLayers_052317E_v1.mxd
May 23, 2017

MORENO VALLEY
WHERE DREAMS SOAR

HCOC Narrative

First Day Street Logistics

Proposed Industrial Warehouse Facility

APN 297-130-036

City of Moreno Valley

The pre-condition project site is a fully developed, light industrial site located east of Day Street and south of Alessandro Boulevard. The post-condition proposes to remove and replace the existing building with a new building, while reconfiguring the drive aisles. The project site is subject to offsite flows from adjacent developed, industrial properties to the north and east. These off-site flows will be conveyed in channels along the perimeter of the project before being collected into a subsurface storm drain line. The proposed storm drain "Line-1" will outlet to the existing storm drain line to the south. This storm drain line is adequately sized to convey the tributary flows. However, there is an elevation gap between the proposed and existing storm drain systems, so a lift station is proposed to outlet the flows. Underground storage is proposed in conjunction with the lift station to ease operations.

Proposed flows will follow existing flow paths established per Storm Drain, PA 05-0042 by Gabel, Cook and Associates, which outlet into an open area south of the project site and north of the I-215 freeway. Since the pre-condition and post-condition are both fully developed, light industrial sites, there will be no increase in flows or intensity from historic storm events. Therefore, HCOC is considered mitigated. Pre-condition and post-condition unit hydrographs for the 2-year, 24-hour storm event are included herein.

Table 4 – Unit Hydrograph Results

	Pre-Condition		Post-Condition		% Difference
Storm Event	Volume (Ac-ft)	Peak Flow (cfs)	Volume (Ac-ft)	Peak Flow (cfs)	
2-Year, 24-Hour	3.55	5.8	3.55	5.8	0%

ONSITEPRE242

U n i t H y d r o g r a p h A n a l y s i s

Study date 05/31/22 File: ONSITEPRE242.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 4010

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

22-0028 - FIR DAY STREET
UNIT HYDROGRAPH ANALYSIS
EXISITNG CONDITION, 2-YEAR 24-HOUR
FN: ONSITEPRE242.OUT- ABE

Drainage Area = 29.60(Ac.) = 0.046 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 29.60(Ac.) = 0.046 Sq. Mi.
Length along longest watercourse = 1866.00(Ft.)
Length along longest watercourse measured to centroid = 936.00(Ft.)
Length along longest watercourse = 0.353 Mi.
Length along longest watercourse measured to centroid = 0.177 Mi.
Difference in elevation = 16.30(Ft.)
Slope along watercourse = 46.1222 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.061 Hr.
Lag time = 3.64 Min.
25% of lag time = 0.91 Min.
40% of lag time = 1.46 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
29.60	1.80	53.28

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
29.60	4.00	118.40

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.800(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 1.800(In)
Areal adjustment factor = 99.99 %

Adjusted average point rain = 1.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
29.600	69.00	0.900

Total Area Entered = 29.60(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
69.0	49.8	0.574	0.900	0.109	1.000	0.109

Sum (F) = 0.109

Area averaged mean soil loss (F) (In/Hr) = 0.109

Minimum soil loss rate ((In/Hr)) = 0.055

(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.200

U n i t H y d r o g r a p h

VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	137.350	29.988	8.946
2	0.167	274.701	47.875	14.282
3	0.250	412.051	11.981	3.574
4	0.333	549.401	5.296	1.580
5	0.417	686.752	2.856	0.852
6	0.500	824.102	2.004	0.598
		Sum = 100.000	Sum=	29.831

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.193)	0.003	0.012
2	0.17	0.07	0.014	(0.193)	0.003	0.012
3	0.25	0.07	0.014	(0.192)	0.003	0.012
4	0.33	0.10	0.022	(0.191)	0.004	0.017
5	0.42	0.10	0.022	(0.190)	0.004	0.017
6	0.50	0.10	0.022	(0.190)	0.004	0.017
7	0.58	0.10	0.022	(0.189)	0.004	0.017
8	0.67	0.10	0.022	(0.188)	0.004	0.017
9	0.75	0.10	0.022	(0.187)	0.004	0.017
10	0.83	0.13	0.029	(0.187)	0.006	0.023
11	0.92	0.13	0.029	(0.186)	0.006	0.023
12	1.00	0.13	0.029	(0.185)	0.006	0.023
13	1.08	0.10	0.022	(0.184)	0.004	0.017
14	1.17	0.10	0.022	(0.184)	0.004	0.017
15	1.25	0.10	0.022	(0.183)	0.004	0.017
16	1.33	0.10	0.022	(0.182)	0.004	0.017
17	1.42	0.10	0.022	(0.182)	0.004	0.017
18	1.50	0.10	0.022	(0.181)	0.004	0.017
19	1.58	0.10	0.022	(0.180)	0.004	0.017
20	1.67	0.10	0.022	(0.179)	0.004	0.017
21	1.75	0.10	0.022	(0.179)	0.004	0.017
22	1.83	0.13	0.029	(0.178)	0.006	0.023
23	1.92	0.13	0.029	(0.177)	0.006	0.023
24	2.00	0.13	0.029	(0.176)	0.006	0.023
25	2.08	0.13	0.029	(0.176)	0.006	0.023

26	2.17	0.13	0.029	(0.175)	0.006	0.023
27	2.25	0.13	0.029	(0.174)	0.006	0.023
28	2.33	0.13	0.029	(0.174)	0.006	0.023
29	2.42	0.13	0.029	(0.173)	0.006	0.023
30	2.50	0.13	0.029	(0.172)	0.006	0.023
31	2.58	0.17	0.036	(0.172)	0.007	0.029
32	2.67	0.17	0.036	(0.171)	0.007	0.029
33	2.75	0.17	0.036	(0.170)	0.007	0.029
34	2.83	0.17	0.036	(0.169)	0.007	0.029
35	2.92	0.17	0.036	(0.169)	0.007	0.029
36	3.00	0.17	0.036	(0.168)	0.007	0.029
37	3.08	0.17	0.036	(0.167)	0.007	0.029
38	3.17	0.17	0.036	(0.167)	0.007	0.029
39	3.25	0.17	0.036	(0.166)	0.007	0.029
40	3.33	0.17	0.036	(0.165)	0.007	0.029
41	3.42	0.17	0.036	(0.165)	0.007	0.029
42	3.50	0.17	0.036	(0.164)	0.007	0.029
43	3.58	0.17	0.036	(0.163)	0.007	0.029
44	3.67	0.17	0.036	(0.162)	0.007	0.029
45	3.75	0.17	0.036	(0.162)	0.007	0.029
46	3.83	0.20	0.043	(0.161)	0.009	0.035
47	3.92	0.20	0.043	(0.160)	0.009	0.035
48	4.00	0.20	0.043	(0.160)	0.009	0.035
49	4.08	0.20	0.043	(0.159)	0.009	0.035
50	4.17	0.20	0.043	(0.158)	0.009	0.035
51	4.25	0.20	0.043	(0.158)	0.009	0.035
52	4.33	0.23	0.050	(0.157)	0.010	0.040
53	4.42	0.23	0.050	(0.156)	0.010	0.040
54	4.50	0.23	0.050	(0.156)	0.010	0.040
55	4.58	0.23	0.050	(0.155)	0.010	0.040
56	4.67	0.23	0.050	(0.154)	0.010	0.040
57	4.75	0.23	0.050	(0.154)	0.010	0.040
58	4.83	0.27	0.058	(0.153)	0.012	0.046
59	4.92	0.27	0.058	(0.152)	0.012	0.046
60	5.00	0.27	0.058	(0.152)	0.012	0.046
61	5.08	0.20	0.043	(0.151)	0.009	0.035
62	5.17	0.20	0.043	(0.150)	0.009	0.035
63	5.25	0.20	0.043	(0.150)	0.009	0.035
64	5.33	0.23	0.050	(0.149)	0.010	0.040
65	5.42	0.23	0.050	(0.148)	0.010	0.040
66	5.50	0.23	0.050	(0.148)	0.010	0.040
67	5.58	0.27	0.058	(0.147)	0.012	0.046
68	5.67	0.27	0.058	(0.147)	0.012	0.046
69	5.75	0.27	0.058	(0.146)	0.012	0.046
70	5.83	0.27	0.058	(0.145)	0.012	0.046
71	5.92	0.27	0.058	(0.145)	0.012	0.046
72	6.00	0.27	0.058	(0.144)	0.012	0.046
73	6.08	0.30	0.065	(0.143)	0.013	0.052
74	6.17	0.30	0.065	(0.143)	0.013	0.052
75	6.25	0.30	0.065	(0.142)	0.013	0.052
76	6.33	0.30	0.065	(0.141)	0.013	0.052
77	6.42	0.30	0.065	(0.141)	0.013	0.052
78	6.50	0.30	0.065	(0.140)	0.013	0.052
79	6.58	0.33	0.072	(0.140)	0.014	0.058
80	6.67	0.33	0.072	(0.139)	0.014	0.058
81	6.75	0.33	0.072	(0.138)	0.014	0.058
82	6.83	0.33	0.072	(0.138)	0.014	0.058
83	6.92	0.33	0.072	(0.137)	0.014	0.058
84	7.00	0.33	0.072	(0.136)	0.014	0.058
85	7.08	0.33	0.072	(0.136)	0.014	0.058
86	7.17	0.33	0.072	(0.135)	0.014	0.058
87	7.25	0.33	0.072	(0.135)	0.014	0.058
88	7.33	0.37	0.079	(0.134)	0.016	0.063
89	7.42	0.37	0.079	(0.133)	0.016	0.063
90	7.50	0.37	0.079	(0.133)	0.016	0.063
91	7.58	0.40	0.086	(0.132)	0.017	0.069

92	7.67	0.40	0.086	(0.131)	0.017	0.069
93	7.75	0.40	0.086	(0.131)	0.017	0.069
94	7.83	0.43	0.094	(0.130)	0.019	0.075
95	7.92	0.43	0.094	(0.130)	0.019	0.075
96	8.00	0.43	0.094	(0.129)	0.019	0.075
97	8.08	0.50	0.108	(0.128)	0.022	0.086
98	8.17	0.50	0.108	(0.128)	0.022	0.086
99	8.25	0.50	0.108	(0.127)	0.022	0.086
100	8.33	0.50	0.108	(0.127)	0.022	0.086
101	8.42	0.50	0.108	(0.126)	0.022	0.086
102	8.50	0.50	0.108	(0.125)	0.022	0.086
103	8.58	0.53	0.115	(0.125)	0.023	0.092
104	8.67	0.53	0.115	(0.124)	0.023	0.092
105	8.75	0.53	0.115	(0.124)	0.023	0.092
106	8.83	0.57	0.122	(0.123)	0.024	0.098
107	8.92	0.57	0.122	(0.123)	0.024	0.098
108	9.00	0.57	0.122	(0.122)	0.024	0.098
109	9.08	0.63	0.137	(0.121)	0.027	0.109
110	9.17	0.63	0.137	(0.121)	0.027	0.109
111	9.25	0.63	0.137	(0.120)	0.027	0.109
112	9.33	0.67	0.144	(0.120)	0.029	0.115
113	9.42	0.67	0.144	(0.119)	0.029	0.115
114	9.50	0.67	0.144	(0.119)	0.029	0.115
115	9.58	0.70	0.151	(0.118)	0.030	0.121
116	9.67	0.70	0.151	(0.117)	0.030	0.121
117	9.75	0.70	0.151	(0.117)	0.030	0.121
118	9.83	0.73	0.158	(0.116)	0.032	0.127
119	9.92	0.73	0.158	(0.116)	0.032	0.127
120	10.00	0.73	0.158	(0.115)	0.032	0.127
121	10.08	0.50	0.108	(0.115)	0.022	0.086
122	10.17	0.50	0.108	(0.114)	0.022	0.086
123	10.25	0.50	0.108	(0.113)	0.022	0.086
124	10.33	0.50	0.108	(0.113)	0.022	0.086
125	10.42	0.50	0.108	(0.112)	0.022	0.086
126	10.50	0.50	0.108	(0.112)	0.022	0.086
127	10.58	0.67	0.144	(0.111)	0.029	0.115
128	10.67	0.67	0.144	(0.111)	0.029	0.115
129	10.75	0.67	0.144	(0.110)	0.029	0.115
130	10.83	0.67	0.144	(0.110)	0.029	0.115
131	10.92	0.67	0.144	(0.109)	0.029	0.115
132	11.00	0.67	0.144	(0.109)	0.029	0.115
133	11.08	0.63	0.137	(0.108)	0.027	0.109
134	11.17	0.63	0.137	(0.108)	0.027	0.109
135	11.25	0.63	0.137	(0.107)	0.027	0.109
136	11.33	0.63	0.137	(0.106)	0.027	0.109
137	11.42	0.63	0.137	(0.106)	0.027	0.109
138	11.50	0.63	0.137	(0.105)	0.027	0.109
139	11.58	0.57	0.122	(0.105)	0.024	0.098
140	11.67	0.57	0.122	(0.104)	0.024	0.098
141	11.75	0.57	0.122	(0.104)	0.024	0.098
142	11.83	0.60	0.130	(0.103)	0.026	0.104
143	11.92	0.60	0.130	(0.103)	0.026	0.104
144	12.00	0.60	0.130	(0.102)	0.026	0.104
145	12.08	0.83	0.180	(0.102)	0.036	0.144
146	12.17	0.83	0.180	(0.101)	0.036	0.144
147	12.25	0.83	0.180	(0.101)	0.036	0.144
148	12.33	0.87	0.187	(0.100)	0.037	0.150
149	12.42	0.87	0.187	(0.100)	0.037	0.150
150	12.50	0.87	0.187	(0.099)	0.037	0.150
151	12.58	0.93	0.202	(0.099)	0.040	0.161
152	12.67	0.93	0.202	(0.098)	0.040	0.161
153	12.75	0.93	0.202	(0.098)	0.040	0.161
154	12.83	0.97	0.209	(0.097)	0.042	0.167
155	12.92	0.97	0.209	(0.097)	0.042	0.167
156	13.00	0.97	0.209	(0.096)	0.042	0.167
157	13.08	1.13	0.245	(0.096)	0.049	0.196

158	13.17	1.13	0.245	(0.095)	0.049	0.196
159	13.25	1.13	0.245	(0.095)	0.049	0.196
160	13.33	1.13	0.245	(0.094)	0.049	0.196
161	13.42	1.13	0.245	(0.094)	0.049	0.196
162	13.50	1.13	0.245	(0.093)	0.049	0.196
163	13.58	0.77	0.166	(0.093)	0.033	0.132
164	13.67	0.77	0.166	(0.092)	0.033	0.132
165	13.75	0.77	0.166	(0.092)	0.033	0.132
166	13.83	0.77	0.166	(0.092)	0.033	0.132
167	13.92	0.77	0.166	(0.091)	0.033	0.132
168	14.00	0.77	0.166	(0.091)	0.033	0.132
169	14.08	0.90	0.194	(0.090)	0.039	0.156
170	14.17	0.90	0.194	(0.090)	0.039	0.156
171	14.25	0.90	0.194	(0.089)	0.039	0.156
172	14.33	0.87	0.187	(0.089)	0.037	0.150
173	14.42	0.87	0.187	(0.088)	0.037	0.150
174	14.50	0.87	0.187	(0.088)	0.037	0.150
175	14.58	0.87	0.187	(0.087)	0.037	0.150
176	14.67	0.87	0.187	(0.087)	0.037	0.150
177	14.75	0.87	0.187	(0.086)	0.037	0.150
178	14.83	0.83	0.180	(0.086)	0.036	0.144
179	14.92	0.83	0.180	(0.086)	0.036	0.144
180	15.00	0.83	0.180	(0.085)	0.036	0.144
181	15.08	0.80	0.173	(0.085)	0.035	0.138
182	15.17	0.80	0.173	(0.084)	0.035	0.138
183	15.25	0.80	0.173	(0.084)	0.035	0.138
184	15.33	0.77	0.166	(0.083)	0.033	0.132
185	15.42	0.77	0.166	(0.083)	0.033	0.132
186	15.50	0.77	0.166	(0.083)	0.033	0.132
187	15.58	0.63	0.137	(0.082)	0.027	0.109
188	15.67	0.63	0.137	(0.082)	0.027	0.109
189	15.75	0.63	0.137	(0.081)	0.027	0.109
190	15.83	0.63	0.137	(0.081)	0.027	0.109
191	15.92	0.63	0.137	(0.080)	0.027	0.109
192	16.00	0.63	0.137	(0.080)	0.027	0.109
193	16.08	0.13	0.029	(0.080)	0.006	0.023
194	16.17	0.13	0.029	(0.079)	0.006	0.023
195	16.25	0.13	0.029	(0.079)	0.006	0.023
196	16.33	0.13	0.029	(0.078)	0.006	0.023
197	16.42	0.13	0.029	(0.078)	0.006	0.023
198	16.50	0.13	0.029	(0.078)	0.006	0.023
199	16.58	0.10	0.022	(0.077)	0.004	0.017
200	16.67	0.10	0.022	(0.077)	0.004	0.017
201	16.75	0.10	0.022	(0.076)	0.004	0.017
202	16.83	0.10	0.022	(0.076)	0.004	0.017
203	16.92	0.10	0.022	(0.076)	0.004	0.017
204	17.00	0.10	0.022	(0.075)	0.004	0.017
205	17.08	0.17	0.036	(0.075)	0.007	0.029
206	17.17	0.17	0.036	(0.075)	0.007	0.029
207	17.25	0.17	0.036	(0.074)	0.007	0.029
208	17.33	0.17	0.036	(0.074)	0.007	0.029
209	17.42	0.17	0.036	(0.073)	0.007	0.029
210	17.50	0.17	0.036	(0.073)	0.007	0.029
211	17.58	0.17	0.036	(0.073)	0.007	0.029
212	17.67	0.17	0.036	(0.072)	0.007	0.029
213	17.75	0.17	0.036	(0.072)	0.007	0.029
214	17.83	0.13	0.029	(0.072)	0.006	0.023
215	17.92	0.13	0.029	(0.071)	0.006	0.023
216	18.00	0.13	0.029	(0.071)	0.006	0.023
217	18.08	0.13	0.029	(0.071)	0.006	0.023
218	18.17	0.13	0.029	(0.070)	0.006	0.023
219	18.25	0.13	0.029	(0.070)	0.006	0.023
220	18.33	0.13	0.029	(0.070)	0.006	0.023
221	18.42	0.13	0.029	(0.069)	0.006	0.023
222	18.50	0.13	0.029	(0.069)	0.006	0.023
223	18.58	0.10	0.022	(0.069)	0.004	0.017

224	18.67	0.10	0.022	(0.068)	0.004	0.017
225	18.75	0.10	0.022	(0.068)	0.004	0.017
226	18.83	0.07	0.014	(0.068)	0.003	0.012
227	18.92	0.07	0.014	(0.067)	0.003	0.012
228	19.00	0.07	0.014	(0.067)	0.003	0.012
229	19.08	0.10	0.022	(0.067)	0.004	0.017
230	19.17	0.10	0.022	(0.066)	0.004	0.017
231	19.25	0.10	0.022	(0.066)	0.004	0.017
232	19.33	0.13	0.029	(0.066)	0.006	0.023
233	19.42	0.13	0.029	(0.065)	0.006	0.023
234	19.50	0.13	0.029	(0.065)	0.006	0.023
235	19.58	0.10	0.022	(0.065)	0.004	0.017
236	19.67	0.10	0.022	(0.064)	0.004	0.017
237	19.75	0.10	0.022	(0.064)	0.004	0.017
238	19.83	0.07	0.014	(0.064)	0.003	0.012
239	19.92	0.07	0.014	(0.064)	0.003	0.012
240	20.00	0.07	0.014	(0.063)	0.003	0.012
241	20.08	0.10	0.022	(0.063)	0.004	0.017
242	20.17	0.10	0.022	(0.063)	0.004	0.017
243	20.25	0.10	0.022	(0.062)	0.004	0.017
244	20.33	0.10	0.022	(0.062)	0.004	0.017
245	20.42	0.10	0.022	(0.062)	0.004	0.017
246	20.50	0.10	0.022	(0.062)	0.004	0.017
247	20.58	0.10	0.022	(0.061)	0.004	0.017
248	20.67	0.10	0.022	(0.061)	0.004	0.017
249	20.75	0.10	0.022	(0.061)	0.004	0.017
250	20.83	0.07	0.014	(0.061)	0.003	0.012
251	20.92	0.07	0.014	(0.060)	0.003	0.012
252	21.00	0.07	0.014	(0.060)	0.003	0.012
253	21.08	0.10	0.022	(0.060)	0.004	0.017
254	21.17	0.10	0.022	(0.060)	0.004	0.017
255	21.25	0.10	0.022	(0.059)	0.004	0.017
256	21.33	0.07	0.014	(0.059)	0.003	0.012
257	21.42	0.07	0.014	(0.059)	0.003	0.012
258	21.50	0.07	0.014	(0.059)	0.003	0.012
259	21.58	0.10	0.022	(0.059)	0.004	0.017
260	21.67	0.10	0.022	(0.058)	0.004	0.017
261	21.75	0.10	0.022	(0.058)	0.004	0.017
262	21.83	0.07	0.014	(0.058)	0.003	0.012
263	21.92	0.07	0.014	(0.058)	0.003	0.012
264	22.00	0.07	0.014	(0.058)	0.003	0.012
265	22.08	0.10	0.022	(0.057)	0.004	0.017
266	22.17	0.10	0.022	(0.057)	0.004	0.017
267	22.25	0.10	0.022	(0.057)	0.004	0.017
268	22.33	0.07	0.014	(0.057)	0.003	0.012
269	22.42	0.07	0.014	(0.057)	0.003	0.012
270	22.50	0.07	0.014	(0.057)	0.003	0.012
271	22.58	0.07	0.014	(0.056)	0.003	0.012
272	22.67	0.07	0.014	(0.056)	0.003	0.012
273	22.75	0.07	0.014	(0.056)	0.003	0.012
274	22.83	0.07	0.014	(0.056)	0.003	0.012
275	22.92	0.07	0.014	(0.056)	0.003	0.012
276	23.00	0.07	0.014	(0.056)	0.003	0.012
277	23.08	0.07	0.014	(0.055)	0.003	0.012
278	23.17	0.07	0.014	(0.055)	0.003	0.012
279	23.25	0.07	0.014	(0.055)	0.003	0.012
280	23.33	0.07	0.014	(0.055)	0.003	0.012
281	23.42	0.07	0.014	(0.055)	0.003	0.012
282	23.50	0.07	0.014	(0.055)	0.003	0.012
283	23.58	0.07	0.014	(0.055)	0.003	0.012
284	23.67	0.07	0.014	(0.055)	0.003	0.012
285	23.75	0.07	0.014	(0.055)	0.003	0.012
286	23.83	0.07	0.014	(0.055)	0.003	0.012
287	23.92	0.07	0.014	(0.055)	0.003	0.012
288	24.00	0.07	0.014	(0.055)	0.003	0.012

(Loss Rate Not Used)

Sum = 100.0 Sum = 17.3

Flood volume = Effective rainfall 1.44(In)
times area 29.6(Ac.)/[(In)/(Ft.)] = 3.6(Ac.Ft)
Total soil loss = 0.36(In)
Total soil loss = 0.888(Ac.Ft)
Total rainfall = 1.80(In)
Flood volume = 154716.2 Cubic Feet
Total soil loss = 38679.0 Cubic Feet

Peak flow rate of this hydrograph = 5.845(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0007	0.10	Q				
0+10	0.0026	0.27	VQ				
0+15	0.0047	0.31	VQ				
0+20	0.0073	0.38	VQ				
0+25	0.0105	0.47	VQ				
0+30	0.0140	0.50	VQ				
0+35	0.0175	0.51	V Q				
0+40	0.0210	0.51	V Q				
0+45	0.0245	0.52	V Q				
0+50	0.0284	0.57	V Q				
0+55	0.0329	0.65	V Q				
1+ 0	0.0375	0.67	V Q				
1+ 5	0.0419	0.63	V Q				
1+10	0.0456	0.55	V Q				
1+15	0.0493	0.53	V Q				
1+20	0.0529	0.52	V Q				
1+25	0.0565	0.52	V Q				
1+30	0.0601	0.52	V Q				
1+35	0.0636	0.52	V Q				
1+40	0.0672	0.52	V Q				
1+45	0.0707	0.52	V Q				
1+50	0.0746	0.57	V Q				
1+55	0.0791	0.65	V Q				
2+ 0	0.0837	0.67	V Q				
2+ 5	0.0884	0.68	V Q				
2+10	0.0931	0.68	|VQ				
2+15	0.0978	0.69	|VQ				
2+20	0.1026	0.69	|VQ				
2+25	0.1073	0.69	|VQ				
2+30	0.1120	0.69	|VQ				
2+35	0.1171	0.74	|VQ				
2+40	0.1228	0.82	|V Q				
2+45	0.1286	0.84	|V Q				
2+50	0.1344	0.85	|V Q				
2+55	0.1403	0.86	|V Q				
3+ 0	0.1463	0.86	|V Q				
3+ 5	0.1522	0.86	|V Q				
3+10	0.1581	0.86	|V Q				
3+15	0.1640	0.86	|V Q				
3+20	0.1699	0.86	|V Q				
3+25	0.1759	0.86	|V Q				
3+30	0.1818	0.86	| VQ				
3+35	0.1877	0.86	| VQ				
3+40	0.1936	0.86	| VQ				
3+45	0.1995	0.86	| VQ				
3+50	0.2058	0.91	| VQ				

3+55	0.2127	0.99	VQ			
4+ 0	0.2196	1.01	V Q			
4+ 5	0.2267	1.02	V Q			
4+10	0.2338	1.03	V Q			
4+15	0.2409	1.03	V Q			
4+20	0.2483	1.08	V Q			
4+25	0.2564	1.17	V Q			
4+30	0.2645	1.19	V Q			
4+35	0.2728	1.19	VQ			
4+40	0.2810	1.20	VQ			
4+45	0.2893	1.20	VQ			
4+50	0.2979	1.25	V Q			
4+55	0.3072	1.34	V Q			
5+ 0	0.3165	1.36	V Q			
5+ 5	0.3252	1.26	V Q			
5+10	0.3328	1.10	VQ			
5+15	0.3402	1.07	VQ			
5+20	0.3477	1.10	VQ			
5+25	0.3558	1.17	Q			
5+30	0.3640	1.19	Q			
5+35	0.3726	1.25	Q			
5+40	0.3817	1.33	VQ			
5+45	0.3911	1.36	VQ			
5+50	0.4005	1.37	VQ			
5+55	0.4100	1.37	VQ			
6+ 0	0.4194	1.38	VQ			
6+ 5	0.4293	1.43	VQ			
6+10	0.4396	1.51	V Q			
6+15	0.4502	1.53	VQ			
6+20	0.4608	1.54	VQ			
6+25	0.4714	1.54	VQ			
6+30	0.4821	1.55	VQ			
6+35	0.4931	1.60	VQ			
6+40	0.5047	1.68	VQ			
6+45	0.5164	1.70	VQ			
6+50	0.5282	1.71	VQ			
6+55	0.5400	1.72	Q			
7+ 0	0.5518	1.72	Q			
7+ 5	0.5636	1.72	Q			
7+10	0.5755	1.72	Q			
7+15	0.5873	1.72	Q			
7+20	0.5995	1.77	VQ			
7+25	0.6123	1.85	VQ			
7+30	0.6252	1.87	Q			
7+35	0.6385	1.93	Q			
7+40	0.6524	2.02	VQ			
7+45	0.6665	2.05	VQ			
7+50	0.6810	2.11	VQ			
7+55	0.6961	2.19	VQ			
8+ 0	0.7114	2.22	Q			
8+ 5	0.7274	2.33	VQ			
8+10	0.7447	2.50	VQ			
8+15	0.7622	2.54	V Q			
8+20	0.7798	2.56	V Q			
8+25	0.7975	2.57	V Q			
8+30	0.8153	2.58	VQ			
8+35	0.8334	2.63	VQ			
8+40	0.8521	2.71	VQ			
8+45	0.8709	2.73	VQ			
8+50	0.8901	2.79	VQ			
8+55	0.9100	2.88	VQ			
9+ 0	0.9300	2.90	VQ			
9+ 5	0.9508	3.02	V Q			
9+10	0.9727	3.19	V Q			
9+15	0.9950	3.23	VQ			
9+20	1.0177	3.30	V Q			

```
 9+25     1.0411     3.39 |       |V Q     |       |       |
 9+30     1.0646     3.42 |       |V Q     |       |       |
 9+35     1.0886     3.48 |       | VQ     |       |       |
 9+40     1.1132     3.57 |       | V Q    |       |       |
 9+45     1.1379     3.59 |       | V Q    |       |       |
 9+50     1.1631     3.65 |       |  VQ    |       |       |
 9+55     1.1888     3.74 |       |  VQ    |       |       |
10+ 0     1.2148     3.76 |       |  V Q   |       |       |
10+ 5     1.2383     3.41 |       |  Q     |       |       |
10+10     1.2578     2.84 |       |Q  V    |       |       |
10+15     1.2764     2.70 |       Q   V    |       |       |
10+20     1.2946     2.64 |       Q   V    |       |       |
10+25     1.3125     2.60 |       Q   V    |       |       |
10+30     1.3303     2.58 |       Q   V    |       |       |
10+35     1.3498     2.84 |       |Q  V    |       |       |
10+40     1.3722     3.25 |       | Q  V   |       |       |
10+45     1.3953     3.35 |       |  Q V   |       |       |
10+50     1.4187     3.40 |       |  Q V   |       |       |
10+55     1.4422     3.42 |       |  Q  V  |       |       |
11+ 0     1.4659     3.44 |       |  Q  V  |       |       |
11+ 5     1.4892     3.39 |       |  Q  V  |       |       |
11+10     1.5120     3.30 |       |  Q   V |       |       |
11+15     1.5346     3.28 |       |  Q   V |       |       |
11+20     1.5572     3.27 |       |  Q   V |       |       |
11+25     1.5797     3.27 |       |  Q   V |       |       |
11+30     1.6022     3.27 |       |  Q    V|       |       |
11+35     1.6239     3.16 |       | Q     V|       |       |
11+40     1.6446     3.00 |       |Q      V|       |       |
11+45     1.6650     2.96 |       |Q      V|       |       |
11+50     1.6856     2.99 |       |Q      V|       |       |
11+55     1.7067     3.06 |       | Q     V|       |       |
12+ 0     1.7279     3.08 |       | Q     V|       |       |
12+ 5     1.7516     3.45 |       |  Q    V|       |       |
12+10     1.7793     4.03 |       |    Q   V       |       |
12+15     1.8081     4.18 |       |    Q   V       |       |
12+20     1.8376     4.29 |       |     Q  V       |       |
12+25     1.8680     4.41 |       |     Q  |V      |       |
12+30     1.8987     4.45 |       |     Q  |V      |       |
12+35     1.9301     4.56 |       |      Q |V      |       |
12+40     1.9627     4.73 |       |      Q | V     |       |
12+45     1.9956     4.78 |       |       Q| V     |       |
12+50     2.0290     4.85 |       |       Q| V     |       |
12+55     2.0630     4.94 |       |       Q|  V    |       |
13+ 0     2.0972     4.97 |       |       Q|  V    |       |
13+ 5     2.1333     5.23 |       |       Q   V    |       |
13+10     2.1722     5.65 |       |        | Q V   |       |
13+15     2.2119     5.76 |       |        |  QV   |       |
13+20     2.2518     5.80 |       |        |  Q V  |       |
13+25     2.2920     5.83 |       |        |  Q V  |       |
13+30     2.3322     5.84 |       |        |  Q  V |       |
13+35     2.3686     5.28 |       |        |Q    V |       |
13+40     2.3987     4.37 |       |     Q  |     V |       |
13+45     2.4272     4.15 |       |    Q   |     V |       |
13+50     2.4551     4.05 |       |    Q   |     V |       |
13+55     2.4826     3.99 |       |   Q    |     V |       |
14+ 0     2.5098     3.95 |       |   Q    |     V |       |
14+ 5     2.5385     4.16 |       |    Q   |     V |       |
14+10     2.5694     4.49 |       |     Q  |     V |       |
14+15     2.6009     4.57 |       |      Q |      V|       |
14+20     2.6322     4.56 |       |      Q |      V|       |
14+25     2.6632     4.49 |       |     Q  |      V|       |
14+30     2.6941     4.49 |       |     Q  |       V       |
14+35     2.7249     4.48 |       |     Q  |       V       |
14+40     2.7557     4.47 |       |     Q  |       |V      |
14+45     2.7865     4.47 |       |     Q  |       |V      |
14+50     2.8169     4.42 |       |     Q  |       |V      |
```

14+55	2.8468	4.34	|	|	Q |	|	V	|
15+ 0	2.8765	4.32	|	|	Q |	|	V	|
15+ 5	2.9058	4.25	|	|	Q |	|	V	|
15+10	2.9345	4.17	|	|	Q |	|	V	|
15+15	2.9631	4.14	|	|	Q |	|	V	|
15+20	2.9912	4.08	|	|	Q |	|	V	|
15+25	3.0187	4.00	|	|	Q |	|	V	|
15+30	3.0460	3.97	|	|	Q |	|	V	|
15+35	3.0719	3.76	|	|	Q |	|	V	|
15+40	3.0955	3.42	|	| Q	|	|	V	|
15+45	3.1185	3.34	|	| Q	|	|	V	|
15+50	3.1412	3.30	|	| Q	|	|	V	|
15+55	3.1638	3.28	|	| Q	|	|	V	|
16+ 0	3.1863	3.27	|	| Q	|	|	V	|
16+ 5	3.2034	2.49	|	Q|	|	|	V	|
16+10	3.2121	1.26	|	Q	|	|	|	V	|
16+15	3.2186	0.95	|	Q	|	|	|	V	|
16+20	3.2242	0.81	|	Q	|	|	|	V	|
16+25	3.2293	0.74	|	Q	|	|	|	V	|
16+30	3.2341	0.69	|	Q	|	|	|	V	|
16+35	3.2384	0.64	|	Q	|	|	|	V	|
16+40	3.2423	0.55	|	Q	|	|	|	V	|
16+45	3.2459	0.53	|	Q	|	|	|	V	|
16+50	3.2495	0.52	|	Q	|	|	|	V	|
16+55	3.2531	0.52	|	Q	|	|	|	V	|
17+ 0	3.2567	0.52	|	Q	|	|	|	V	|
17+ 5	3.2609	0.62	|	Q	|	|	|	V	|
17+10	3.2663	0.78	|	Q	|	|	|	V	|
17+15	3.2720	0.82	|	Q	|	|	|	V	|
17+20	3.2778	0.84	|	Q	|	|	|	V	|
17+25	3.2837	0.85	|	Q	|	|	|	V	|
17+30	3.2896	0.86	|	Q	|	|	|	V	|
17+35	3.2955	0.86	|	Q	|	|	|	V	|
17+40	3.3014	0.86	|	Q	|	|	|	V	|
17+45	3.3074	0.86	|	Q	|	|	|	V	|
17+50	3.3129	0.81	|	Q	|	|	|	V	|
17+55	3.3179	0.73	|	Q	|	|	|	V	|
18+ 0	3.3228	0.71	|	Q	|	|	|	V	|
18+ 5	3.3276	0.70	|	Q	|	|	|	V	|
18+10	3.3323	0.69	|	Q	|	|	|	V	|
18+15	3.3371	0.69	|	Q	|	|	|	V	|
18+20	3.3418	0.69	|	Q	|	|	|	V	|
18+25	3.3465	0.69	|	Q	|	|	|	V	|
18+30	3.3513	0.69	|	Q	|	|	|	V	|
18+35	3.3557	0.64	|	Q	|	|	|	V	|
18+40	3.3595	0.55	|	Q	|	|	|	V	|
18+45	3.3631	0.53	|	Q	|	|	|	V	|
18+50	3.3664	0.47	|	Q	|	|	|	V	|
18+55	3.3691	0.39	|	Q	|	|	|	V	|
19+ 0	3.3715	0.36	|	Q	|	|	|	V	|
19+ 5	3.3743	0.40	|	Q	|	|	|	V	|
19+10	3.3776	0.48	|	Q	|	|	|	V	|
19+15	3.3811	0.50	|	Q	|	|	|	V	|
19+20	3.3849	0.56	|	Q	|	|	|	V	|
19+25	3.3894	0.65	|	Q	|	|	|	V	|
19+30	3.3940	0.67	|	Q	|	|	|	V	|
19+35	3.3983	0.63	|	Q	|	|	|	V	|
19+40	3.4021	0.55	|	Q	|	|	|	V	|
19+45	3.4058	0.53	|	Q	|	|	|	V	|
19+50	3.4090	0.47	|	Q	|	|	|	V	|
19+55	3.4117	0.39	|	Q	|	|	|	V	|
20+ 0	3.4142	0.36	|	Q	|	|	|	V	|
20+ 5	3.4169	0.40	|	Q	|	|	|	V	|
20+10	3.4203	0.48	|	Q	|	|	|	V	|
20+15	3.4237	0.50	|	Q	|	|	|	V	|
20+20	3.4272	0.51	|	Q	|	|	|	V	|

20+25	3.4307	0.51	| Q	|	|	|	V |
20+30	3.4343	0.52	| Q	|	|	|	V |
20+35	3.4378	0.52	| Q	|	|	|	V |
20+40	3.4414	0.52	| Q	|	|	|	V |
20+45	3.4449	0.52	| Q	|	|	|	V |
20+50	3.4481	0.46	|Q	|	|	|	V |
20+55	3.4507	0.38	|Q	|	|	|	V |
21+ 0	3.4532	0.36	|Q	|	|	|	V |
21+ 5	3.4560	0.40	|Q	|	|	|	V |
21+10	3.4593	0.48	|Q	|	|	|	V |
21+15	3.4628	0.50	|Q	|	|	|	V |
21+20	3.4659	0.46	|Q	|	|	|	V|
21+25	3.4685	0.38	|Q	|	|	|	V|
21+30	3.4710	0.36	|Q	|	|	|	V|
21+35	3.4738	0.40	|Q	|	|	|	V|
21+40	3.4771	0.48	|Q	|	|	|	V|
21+45	3.4805	0.50	|Q	|	|	|	V|
21+50	3.4837	0.46	|Q	|	|	|	V|
21+55	3.4863	0.38	|Q	|	|	|	V|
22+ 0	3.4887	0.36	|Q	|	|	|	V|
22+ 5	3.4915	0.40	|Q	|	|	|	V|
22+10	3.4948	0.48	|Q	|	|	|	V|
22+15	3.4983	0.50	|Q	|	|	|	V|
22+20	3.5014	0.46	|Q	|	|	|	V|
22+25	3.5040	0.38	|Q	|	|	|	V|
22+30	3.5065	0.36	|Q	|	|	|	V|
22+35	3.5089	0.35	|Q	|	|	|	V|
22+40	3.5113	0.35	|Q	|	|	|	V|
22+45	3.5137	0.34	|Q	|	|	|	V|
22+50	3.5161	0.34	|Q	|	|	|	V|
22+55	3.5184	0.34	|Q	|	|	|	V|
23+ 0	3.5208	0.34	|Q	|	|	|	V|
23+ 5	3.5232	0.34	|Q	|	|	|	V|
23+10	3.5255	0.34	|Q	|	|	|	V|
23+15	3.5279	0.34	|Q	|	|	|	V|
23+20	3.5303	0.34	|Q	|	|	|	V|
23+25	3.5326	0.34	|Q	|	|	|	V|
23+30	3.5350	0.34	|Q	|	|	|	V|
23+35	3.5374	0.34	|Q	|	|	|	V|
23+40	3.5397	0.34	|Q	|	|	|	V|
23+45	3.5421	0.34	|Q	|	|	|	V|
23+50	3.5445	0.34	|Q	|	|	|	V|
23+55	3.5468	0.34	|Q	|	|	|	V|
24+ 0	3.5492	0.34	|Q	|	|	|	V|
24+ 5	3.5509	0.24	Q	|	|	|	V|
24+10	3.5514	0.08	Q	|	|	|	V|
24+15	3.5516	0.03	Q	|	|	|	V|
24+20	3.5517	0.02	Q	|	|	|	V|
24+25	3.5518	0.01	Q	|	|	|	V

ONSITEPROP242

U n i t H y d r o g r a p h A n a l y s i s

Study date 05/31/22 File: ONSITEPROP242.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 4010

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

22-0028 - FIR DAY STREET
UNIT HYDROGRAPH ANALYSIS
PROPOSED CONDITION, 2-YEAR 24-HOUR
FN: ONSITEPROP242.OUT- ABE

Drainage Area = 29.60(Ac.) = 0.046 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 29.60(Ac.) = 0.046 Sq. Mi.
Length along longest watercourse = 1888.00(Ft.)
Length along longest watercourse measured to centroid = 958.00(Ft.)
Length along longest watercourse = 0.358 Mi.
Length along longest watercourse measured to centroid = 0.181 Mi.
Difference in elevation = 16.30(Ft.)
Slope along watercourse = 45.5847 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.062 Hr.
Lag time = 3.70 Min.
25% of lag time = 0.92 Min.
40% of lag time = 1.48 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
29.60	1.80	53.28

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
29.60	4.00	118.40

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.800(In)
Area Averaged 100-Year Rainfall = 4.000(In)

Point rain (area averaged) = 1.800(In)
Areal adjustment factor = 99.99 %

Adjusted average point rain = 1.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
29.600	69.00	0.900

Total Area Entered = 29.60(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
69.0	49.8	0.574	0.900	0.109	1.000	0.109

Sum (F) = 0.109

Area averaged mean soil loss (F) (In/Hr) = 0.109

Minimum soil loss rate ((In/Hr)) = 0.055

(for 24 hour storm duration)

Soil low loss rate (decimal) = 0.200

U n i t H y d r o g r a p h

VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	135.237	29.431	8.780
2	0.167	270.473	48.002	14.320
3	0.250	405.710	12.128	3.618
4	0.333	540.946	5.375	1.603
5	0.417	676.183	2.921	0.871
6	0.500	811.419	2.143	0.639
		Sum = 100.000	Sum=	29.831

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max | Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.193)	0.003	0.012
2	0.17	0.07	0.014	(0.193)	0.003	0.012
3	0.25	0.07	0.014	(0.192)	0.003	0.012
4	0.33	0.10	0.022	(0.191)	0.004	0.017
5	0.42	0.10	0.022	(0.190)	0.004	0.017
6	0.50	0.10	0.022	(0.190)	0.004	0.017
7	0.58	0.10	0.022	(0.189)	0.004	0.017
8	0.67	0.10	0.022	(0.188)	0.004	0.017
9	0.75	0.10	0.022	(0.187)	0.004	0.017
10	0.83	0.13	0.029	(0.187)	0.006	0.023
11	0.92	0.13	0.029	(0.186)	0.006	0.023
12	1.00	0.13	0.029	(0.185)	0.006	0.023
13	1.08	0.10	0.022	(0.184)	0.004	0.017
14	1.17	0.10	0.022	(0.184)	0.004	0.017
15	1.25	0.10	0.022	(0.183)	0.004	0.017
16	1.33	0.10	0.022	(0.182)	0.004	0.017
17	1.42	0.10	0.022	(0.182)	0.004	0.017
18	1.50	0.10	0.022	(0.181)	0.004	0.017
19	1.58	0.10	0.022	(0.180)	0.004	0.017
20	1.67	0.10	0.022	(0.179)	0.004	0.017
21	1.75	0.10	0.022	(0.179)	0.004	0.017
22	1.83	0.13	0.029	(0.178)	0.006	0.023
23	1.92	0.13	0.029	(0.177)	0.006	0.023
24	2.00	0.13	0.029	(0.176)	0.006	0.023
25	2.08	0.13	0.029	(0.176)	0.006	0.023

26	2.17	0.13	0.029	(0.175)	0.006	0.023
27	2.25	0.13	0.029	(0.174)	0.006	0.023
28	2.33	0.13	0.029	(0.174)	0.006	0.023
29	2.42	0.13	0.029	(0.173)	0.006	0.023
30	2.50	0.13	0.029	(0.172)	0.006	0.023
31	2.58	0.17	0.036	(0.172)	0.007	0.029
32	2.67	0.17	0.036	(0.171)	0.007	0.029
33	2.75	0.17	0.036	(0.170)	0.007	0.029
34	2.83	0.17	0.036	(0.169)	0.007	0.029
35	2.92	0.17	0.036	(0.169)	0.007	0.029
36	3.00	0.17	0.036	(0.168)	0.007	0.029
37	3.08	0.17	0.036	(0.167)	0.007	0.029
38	3.17	0.17	0.036	(0.167)	0.007	0.029
39	3.25	0.17	0.036	(0.166)	0.007	0.029
40	3.33	0.17	0.036	(0.165)	0.007	0.029
41	3.42	0.17	0.036	(0.165)	0.007	0.029
42	3.50	0.17	0.036	(0.164)	0.007	0.029
43	3.58	0.17	0.036	(0.163)	0.007	0.029
44	3.67	0.17	0.036	(0.162)	0.007	0.029
45	3.75	0.17	0.036	(0.162)	0.007	0.029
46	3.83	0.20	0.043	(0.161)	0.009	0.035
47	3.92	0.20	0.043	(0.160)	0.009	0.035
48	4.00	0.20	0.043	(0.160)	0.009	0.035
49	4.08	0.20	0.043	(0.159)	0.009	0.035
50	4.17	0.20	0.043	(0.158)	0.009	0.035
51	4.25	0.20	0.043	(0.158)	0.009	0.035
52	4.33	0.23	0.050	(0.157)	0.010	0.040
53	4.42	0.23	0.050	(0.156)	0.010	0.040
54	4.50	0.23	0.050	(0.156)	0.010	0.040
55	4.58	0.23	0.050	(0.155)	0.010	0.040
56	4.67	0.23	0.050	(0.154)	0.010	0.040
57	4.75	0.23	0.050	(0.154)	0.010	0.040
58	4.83	0.27	0.058	(0.153)	0.012	0.046
59	4.92	0.27	0.058	(0.152)	0.012	0.046
60	5.00	0.27	0.058	(0.152)	0.012	0.046
61	5.08	0.20	0.043	(0.151)	0.009	0.035
62	5.17	0.20	0.043	(0.150)	0.009	0.035
63	5.25	0.20	0.043	(0.150)	0.009	0.035
64	5.33	0.23	0.050	(0.149)	0.010	0.040
65	5.42	0.23	0.050	(0.148)	0.010	0.040
66	5.50	0.23	0.050	(0.148)	0.010	0.040
67	5.58	0.27	0.058	(0.147)	0.012	0.046
68	5.67	0.27	0.058	(0.147)	0.012	0.046
69	5.75	0.27	0.058	(0.146)	0.012	0.046
70	5.83	0.27	0.058	(0.145)	0.012	0.046
71	5.92	0.27	0.058	(0.145)	0.012	0.046
72	6.00	0.27	0.058	(0.144)	0.012	0.046
73	6.08	0.30	0.065	(0.143)	0.013	0.052
74	6.17	0.30	0.065	(0.143)	0.013	0.052
75	6.25	0.30	0.065	(0.142)	0.013	0.052
76	6.33	0.30	0.065	(0.141)	0.013	0.052
77	6.42	0.30	0.065	(0.141)	0.013	0.052
78	6.50	0.30	0.065	(0.140)	0.013	0.052
79	6.58	0.33	0.072	(0.140)	0.014	0.058
80	6.67	0.33	0.072	(0.139)	0.014	0.058
81	6.75	0.33	0.072	(0.138)	0.014	0.058
82	6.83	0.33	0.072	(0.138)	0.014	0.058
83	6.92	0.33	0.072	(0.137)	0.014	0.058
84	7.00	0.33	0.072	(0.136)	0.014	0.058
85	7.08	0.33	0.072	(0.136)	0.014	0.058
86	7.17	0.33	0.072	(0.135)	0.014	0.058
87	7.25	0.33	0.072	(0.135)	0.014	0.058
88	7.33	0.37	0.079	(0.134)	0.016	0.063
89	7.42	0.37	0.079	(0.133)	0.016	0.063
90	7.50	0.37	0.079	(0.133)	0.016	0.063
91	7.58	0.40	0.086	(0.132)	0.017	0.069

92	7.67	0.40	0.086	(0.131)	0.017	0.069
93	7.75	0.40	0.086	(0.131)	0.017	0.069
94	7.83	0.43	0.094	(0.130)	0.019	0.075
95	7.92	0.43	0.094	(0.130)	0.019	0.075
96	8.00	0.43	0.094	(0.129)	0.019	0.075
97	8.08	0.50	0.108	(0.128)	0.022	0.086
98	8.17	0.50	0.108	(0.128)	0.022	0.086
99	8.25	0.50	0.108	(0.127)	0.022	0.086
100	8.33	0.50	0.108	(0.127)	0.022	0.086
101	8.42	0.50	0.108	(0.126)	0.022	0.086
102	8.50	0.50	0.108	(0.125)	0.022	0.086
103	8.58	0.53	0.115	(0.125)	0.023	0.092
104	8.67	0.53	0.115	(0.124)	0.023	0.092
105	8.75	0.53	0.115	(0.124)	0.023	0.092
106	8.83	0.57	0.122	(0.123)	0.024	0.098
107	8.92	0.57	0.122	(0.123)	0.024	0.098
108	9.00	0.57	0.122	(0.122)	0.024	0.098
109	9.08	0.63	0.137	(0.121)	0.027	0.109
110	9.17	0.63	0.137	(0.121)	0.027	0.109
111	9.25	0.63	0.137	(0.120)	0.027	0.109
112	9.33	0.67	0.144	(0.120)	0.029	0.115
113	9.42	0.67	0.144	(0.119)	0.029	0.115
114	9.50	0.67	0.144	(0.119)	0.029	0.115
115	9.58	0.70	0.151	(0.118)	0.030	0.121
116	9.67	0.70	0.151	(0.117)	0.030	0.121
117	9.75	0.70	0.151	(0.117)	0.030	0.121
118	9.83	0.73	0.158	(0.116)	0.032	0.127
119	9.92	0.73	0.158	(0.116)	0.032	0.127
120	10.00	0.73	0.158	(0.115)	0.032	0.127
121	10.08	0.50	0.108	(0.115)	0.022	0.086
122	10.17	0.50	0.108	(0.114)	0.022	0.086
123	10.25	0.50	0.108	(0.113)	0.022	0.086
124	10.33	0.50	0.108	(0.113)	0.022	0.086
125	10.42	0.50	0.108	(0.112)	0.022	0.086
126	10.50	0.50	0.108	(0.112)	0.022	0.086
127	10.58	0.67	0.144	(0.111)	0.029	0.115
128	10.67	0.67	0.144	(0.111)	0.029	0.115
129	10.75	0.67	0.144	(0.110)	0.029	0.115
130	10.83	0.67	0.144	(0.110)	0.029	0.115
131	10.92	0.67	0.144	(0.109)	0.029	0.115
132	11.00	0.67	0.144	(0.109)	0.029	0.115
133	11.08	0.63	0.137	(0.108)	0.027	0.109
134	11.17	0.63	0.137	(0.108)	0.027	0.109
135	11.25	0.63	0.137	(0.107)	0.027	0.109
136	11.33	0.63	0.137	(0.106)	0.027	0.109
137	11.42	0.63	0.137	(0.106)	0.027	0.109
138	11.50	0.63	0.137	(0.105)	0.027	0.109
139	11.58	0.57	0.122	(0.105)	0.024	0.098
140	11.67	0.57	0.122	(0.104)	0.024	0.098
141	11.75	0.57	0.122	(0.104)	0.024	0.098
142	11.83	0.60	0.130	(0.103)	0.026	0.104
143	11.92	0.60	0.130	(0.103)	0.026	0.104
144	12.00	0.60	0.130	(0.102)	0.026	0.104
145	12.08	0.83	0.180	(0.102)	0.036	0.144
146	12.17	0.83	0.180	(0.101)	0.036	0.144
147	12.25	0.83	0.180	(0.101)	0.036	0.144
148	12.33	0.87	0.187	(0.100)	0.037	0.150
149	12.42	0.87	0.187	(0.100)	0.037	0.150
150	12.50	0.87	0.187	(0.099)	0.037	0.150
151	12.58	0.93	0.202	(0.099)	0.040	0.161
152	12.67	0.93	0.202	(0.098)	0.040	0.161
153	12.75	0.93	0.202	(0.098)	0.040	0.161
154	12.83	0.97	0.209	(0.097)	0.042	0.167
155	12.92	0.97	0.209	(0.097)	0.042	0.167
156	13.00	0.97	0.209	(0.096)	0.042	0.167
157	13.08	1.13	0.245	(0.096)	0.049	0.196

158	13.17	1.13	0.245	(0.095)	0.049	0.196
159	13.25	1.13	0.245	(0.095)	0.049	0.196
160	13.33	1.13	0.245	(0.094)	0.049	0.196
161	13.42	1.13	0.245	(0.094)	0.049	0.196
162	13.50	1.13	0.245	(0.093)	0.049	0.196
163	13.58	0.77	0.166	(0.093)	0.033	0.132
164	13.67	0.77	0.166	(0.092)	0.033	0.132
165	13.75	0.77	0.166	(0.092)	0.033	0.132
166	13.83	0.77	0.166	(0.092)	0.033	0.132
167	13.92	0.77	0.166	(0.091)	0.033	0.132
168	14.00	0.77	0.166	(0.091)	0.033	0.132
169	14.08	0.90	0.194	(0.090)	0.039	0.156
170	14.17	0.90	0.194	(0.090)	0.039	0.156
171	14.25	0.90	0.194	(0.089)	0.039	0.156
172	14.33	0.87	0.187	(0.089)	0.037	0.150
173	14.42	0.87	0.187	(0.088)	0.037	0.150
174	14.50	0.87	0.187	(0.088)	0.037	0.150
175	14.58	0.87	0.187	(0.087)	0.037	0.150
176	14.67	0.87	0.187	(0.087)	0.037	0.150
177	14.75	0.87	0.187	(0.086)	0.037	0.150
178	14.83	0.83	0.180	(0.086)	0.036	0.144
179	14.92	0.83	0.180	(0.086)	0.036	0.144
180	15.00	0.83	0.180	(0.085)	0.036	0.144
181	15.08	0.80	0.173	(0.085)	0.035	0.138
182	15.17	0.80	0.173	(0.084)	0.035	0.138
183	15.25	0.80	0.173	(0.084)	0.035	0.138
184	15.33	0.77	0.166	(0.083)	0.033	0.132
185	15.42	0.77	0.166	(0.083)	0.033	0.132
186	15.50	0.77	0.166	(0.083)	0.033	0.132
187	15.58	0.63	0.137	(0.082)	0.027	0.109
188	15.67	0.63	0.137	(0.082)	0.027	0.109
189	15.75	0.63	0.137	(0.081)	0.027	0.109
190	15.83	0.63	0.137	(0.081)	0.027	0.109
191	15.92	0.63	0.137	(0.080)	0.027	0.109
192	16.00	0.63	0.137	(0.080)	0.027	0.109
193	16.08	0.13	0.029	(0.080)	0.006	0.023
194	16.17	0.13	0.029	(0.079)	0.006	0.023
195	16.25	0.13	0.029	(0.079)	0.006	0.023
196	16.33	0.13	0.029	(0.078)	0.006	0.023
197	16.42	0.13	0.029	(0.078)	0.006	0.023
198	16.50	0.13	0.029	(0.078)	0.006	0.023
199	16.58	0.10	0.022	(0.077)	0.004	0.017
200	16.67	0.10	0.022	(0.077)	0.004	0.017
201	16.75	0.10	0.022	(0.076)	0.004	0.017
202	16.83	0.10	0.022	(0.076)	0.004	0.017
203	16.92	0.10	0.022	(0.076)	0.004	0.017
204	17.00	0.10	0.022	(0.075)	0.004	0.017
205	17.08	0.17	0.036	(0.075)	0.007	0.029
206	17.17	0.17	0.036	(0.075)	0.007	0.029
207	17.25	0.17	0.036	(0.074)	0.007	0.029
208	17.33	0.17	0.036	(0.074)	0.007	0.029
209	17.42	0.17	0.036	(0.073)	0.007	0.029
210	17.50	0.17	0.036	(0.073)	0.007	0.029
211	17.58	0.17	0.036	(0.073)	0.007	0.029
212	17.67	0.17	0.036	(0.072)	0.007	0.029
213	17.75	0.17	0.036	(0.072)	0.007	0.029
214	17.83	0.13	0.029	(0.072)	0.006	0.023
215	17.92	0.13	0.029	(0.071)	0.006	0.023
216	18.00	0.13	0.029	(0.071)	0.006	0.023
217	18.08	0.13	0.029	(0.071)	0.006	0.023
218	18.17	0.13	0.029	(0.070)	0.006	0.023
219	18.25	0.13	0.029	(0.070)	0.006	0.023
220	18.33	0.13	0.029	(0.070)	0.006	0.023
221	18.42	0.13	0.029	(0.069)	0.006	0.023
222	18.50	0.13	0.029	(0.069)	0.006	0.023
223	18.58	0.10	0.022	(0.069)	0.004	0.017

224	18.67	0.10	0.022	(0.068)	0.004	0.017
225	18.75	0.10	0.022	(0.068)	0.004	0.017
226	18.83	0.07	0.014	(0.068)	0.003	0.012
227	18.92	0.07	0.014	(0.067)	0.003	0.012
228	19.00	0.07	0.014	(0.067)	0.003	0.012
229	19.08	0.10	0.022	(0.067)	0.004	0.017
230	19.17	0.10	0.022	(0.066)	0.004	0.017
231	19.25	0.10	0.022	(0.066)	0.004	0.017
232	19.33	0.13	0.029	(0.066)	0.006	0.023
233	19.42	0.13	0.029	(0.065)	0.006	0.023
234	19.50	0.13	0.029	(0.065)	0.006	0.023
235	19.58	0.10	0.022	(0.065)	0.004	0.017
236	19.67	0.10	0.022	(0.064)	0.004	0.017
237	19.75	0.10	0.022	(0.064)	0.004	0.017
238	19.83	0.07	0.014	(0.064)	0.003	0.012
239	19.92	0.07	0.014	(0.064)	0.003	0.012
240	20.00	0.07	0.014	(0.063)	0.003	0.012
241	20.08	0.10	0.022	(0.063)	0.004	0.017
242	20.17	0.10	0.022	(0.063)	0.004	0.017
243	20.25	0.10	0.022	(0.062)	0.004	0.017
244	20.33	0.10	0.022	(0.062)	0.004	0.017
245	20.42	0.10	0.022	(0.062)	0.004	0.017
246	20.50	0.10	0.022	(0.062)	0.004	0.017
247	20.58	0.10	0.022	(0.061)	0.004	0.017
248	20.67	0.10	0.022	(0.061)	0.004	0.017
249	20.75	0.10	0.022	(0.061)	0.004	0.017
250	20.83	0.07	0.014	(0.061)	0.003	0.012
251	20.92	0.07	0.014	(0.060)	0.003	0.012
252	21.00	0.07	0.014	(0.060)	0.003	0.012
253	21.08	0.10	0.022	(0.060)	0.004	0.017
254	21.17	0.10	0.022	(0.060)	0.004	0.017
255	21.25	0.10	0.022	(0.059)	0.004	0.017
256	21.33	0.07	0.014	(0.059)	0.003	0.012
257	21.42	0.07	0.014	(0.059)	0.003	0.012
258	21.50	0.07	0.014	(0.059)	0.003	0.012
259	21.58	0.10	0.022	(0.059)	0.004	0.017
260	21.67	0.10	0.022	(0.058)	0.004	0.017
261	21.75	0.10	0.022	(0.058)	0.004	0.017
262	21.83	0.07	0.014	(0.058)	0.003	0.012
263	21.92	0.07	0.014	(0.058)	0.003	0.012
264	22.00	0.07	0.014	(0.058)	0.003	0.012
265	22.08	0.10	0.022	(0.057)	0.004	0.017
266	22.17	0.10	0.022	(0.057)	0.004	0.017
267	22.25	0.10	0.022	(0.057)	0.004	0.017
268	22.33	0.07	0.014	(0.057)	0.003	0.012
269	22.42	0.07	0.014	(0.057)	0.003	0.012
270	22.50	0.07	0.014	(0.057)	0.003	0.012
271	22.58	0.07	0.014	(0.056)	0.003	0.012
272	22.67	0.07	0.014	(0.056)	0.003	0.012
273	22.75	0.07	0.014	(0.056)	0.003	0.012
274	22.83	0.07	0.014	(0.056)	0.003	0.012
275	22.92	0.07	0.014	(0.056)	0.003	0.012
276	23.00	0.07	0.014	(0.056)	0.003	0.012
277	23.08	0.07	0.014	(0.055)	0.003	0.012
278	23.17	0.07	0.014	(0.055)	0.003	0.012
279	23.25	0.07	0.014	(0.055)	0.003	0.012
280	23.33	0.07	0.014	(0.055)	0.003	0.012
281	23.42	0.07	0.014	(0.055)	0.003	0.012
282	23.50	0.07	0.014	(0.055)	0.003	0.012
283	23.58	0.07	0.014	(0.055)	0.003	0.012
284	23.67	0.07	0.014	(0.055)	0.003	0.012
285	23.75	0.07	0.014	(0.055)	0.003	0.012
286	23.83	0.07	0.014	(0.055)	0.003	0.012
287	23.92	0.07	0.014	(0.055)	0.003	0.012
288	24.00	0.07	0.014	(0.055)	0.003	0.012

(Loss Rate Not Used)

Sum = 100.0 Sum = 17.3

Flood volume = Effective rainfall 1.44(In)
times area 29.6(Ac.)/[(In)/(Ft.)] = 3.6(Ac.Ft)
Total soil loss = 0.36(In)
Total soil loss = 0.888(Ac.Ft)
Total rainfall = 1.80(In)
Flood volume = 154716.2 Cubic Feet
Total soil loss = 38679.0 Cubic Feet

Peak flow rate of this hydrograph = 5.845(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

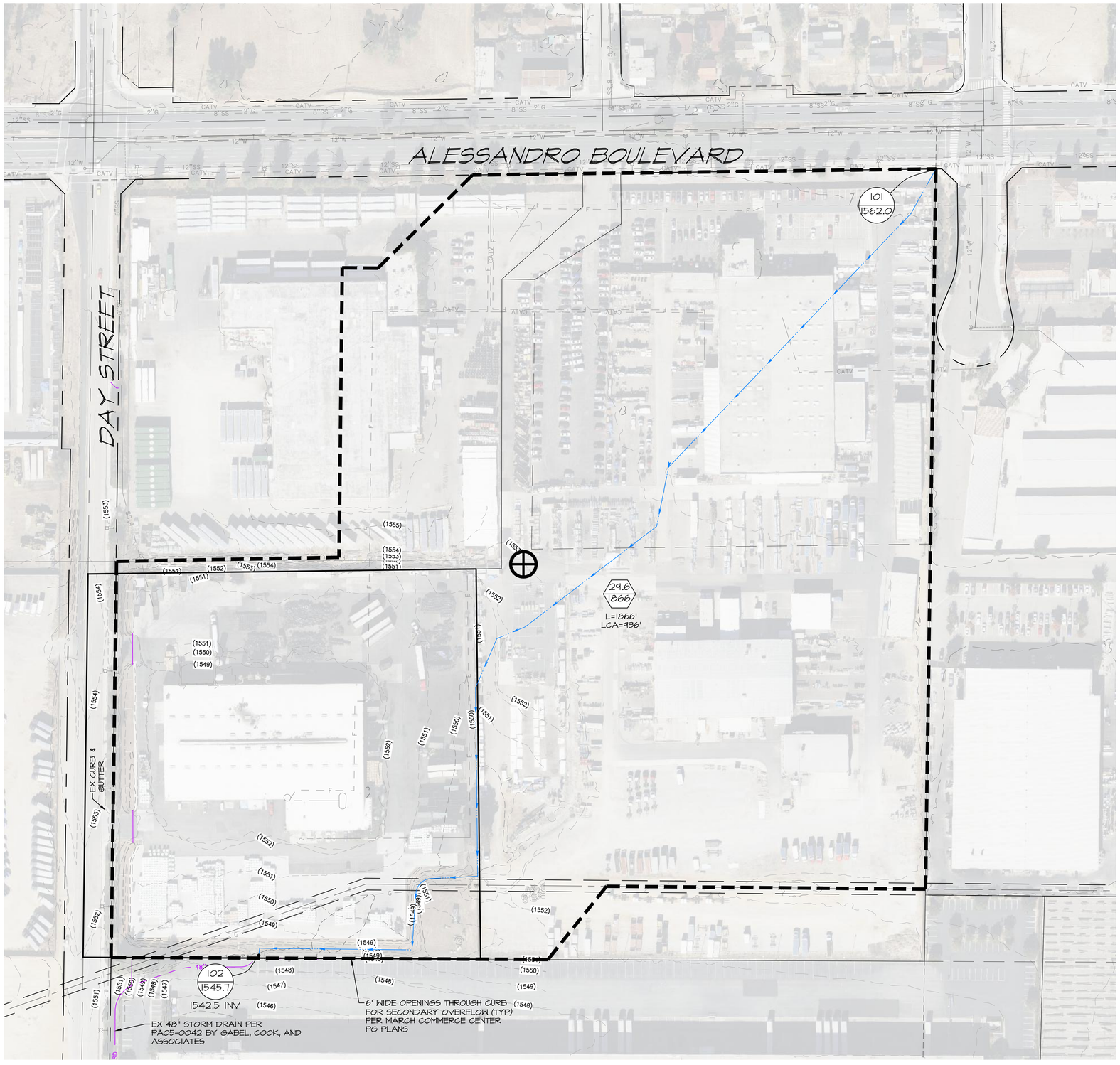
Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0007	0.10	Q				
0+10	0.0025	0.27	VQ				
0+15	0.0047	0.31	VQ				
0+20	0.0072	0.38	VQ				
0+25	0.0105	0.47	VQ				
0+30	0.0139	0.50	VQ				
0+35	0.0174	0.51	V Q				
0+40	0.0209	0.51	V Q				
0+45	0.0245	0.52	V Q				
0+50	0.0284	0.57	V Q				
0+55	0.0328	0.65	V Q				
1+ 0	0.0375	0.67	V Q				
1+ 5	0.0418	0.63	V Q				
1+10	0.0456	0.55	V Q				
1+15	0.0493	0.53	V Q				
1+20	0.0529	0.52	V Q				
1+25	0.0564	0.52	V Q				
1+30	0.0600	0.52	V Q				
1+35	0.0635	0.52	V Q				
1+40	0.0671	0.52	V Q				
1+45	0.0707	0.52	V Q				
1+50	0.0746	0.57	V Q				
1+55	0.0790	0.65	V Q				
2+ 0	0.0836	0.67	V Q				
2+ 5	0.0883	0.68	V Q				
2+10	0.0930	0.68	|VQ				
2+15	0.0978	0.69	|VQ				
2+20	0.1025	0.69	|VQ				
2+25	0.1072	0.69	|VQ				
2+30	0.1120	0.69	|VQ				
2+35	0.1170	0.74	|VQ				
2+40	0.1227	0.82	|V Q				
2+45	0.1285	0.84	|V Q				
2+50	0.1344	0.85	|V Q				
2+55	0.1402	0.86	|V Q				
3+ 0	0.1462	0.86	|V Q				
3+ 5	0.1521	0.86	|V Q				
3+10	0.1580	0.86	|V Q				
3+15	0.1639	0.86	|V Q				
3+20	0.1698	0.86	|V Q				
3+25	0.1758	0.86	|V Q				
3+30	0.1817	0.86	| VQ				
3+35	0.1876	0.86	| VQ				
3+40	0.1935	0.86	| VQ				
3+45	0.1994	0.86	| VQ				
3+50	0.2057	0.91	| VQ				

3+55	0.2126	0.99	VQ			
4+ 0	0.2195	1.01	V Q			
4+ 5	0.2266	1.02	V Q			
4+10	0.2337	1.03	V Q			
4+15	0.2408	1.03	V Q			
4+20	0.2482	1.08	V Q			
4+25	0.2562	1.16	V Q			
4+30	0.2644	1.19	V Q			
4+35	0.2726	1.19	VQ			
4+40	0.2809	1.20	VQ			
4+45	0.2892	1.20	VQ			
4+50	0.2978	1.25	V Q			
4+55	0.3070	1.34	V Q			
5+ 0	0.3164	1.36	V Q			
5+ 5	0.3251	1.27	V Q			
5+10	0.3327	1.11	VQ			
5+15	0.3400	1.07	VQ			
5+20	0.3476	1.10	VQ			
5+25	0.3557	1.17	Q			
5+30	0.3638	1.19	Q			
5+35	0.3724	1.25	Q			
5+40	0.3816	1.33	VQ			
5+45	0.3909	1.36	VQ			
5+50	0.4004	1.37	VQ			
5+55	0.4098	1.37	VQ			
6+ 0	0.4193	1.38	VQ			
6+ 5	0.4291	1.43	VQ			
6+10	0.4395	1.51	V Q			
6+15	0.4500	1.53	VQ			
6+20	0.4606	1.54	VQ			
6+25	0.4712	1.54	VQ			
6+30	0.4819	1.55	VQ			
6+35	0.4929	1.60	VQ			
6+40	0.5045	1.68	VQ			
6+45	0.5162	1.70	VQ			
6+50	0.5280	1.71	VQ			
6+55	0.5398	1.72	Q			
7+ 0	0.5516	1.72	Q			
7+ 5	0.5635	1.72	Q			
7+10	0.5753	1.72	Q			
7+15	0.5871	1.72	Q			
7+20	0.5993	1.77	VQ			
7+25	0.6121	1.85	VQ			
7+30	0.6250	1.87	Q			
7+35	0.6383	1.93	Q			
7+40	0.6522	2.02	VQ			
7+45	0.6663	2.04	VQ			
7+50	0.6808	2.10	VQ			
7+55	0.6959	2.19	VQ			
8+ 0	0.7112	2.22	Q			
8+ 5	0.7272	2.33	VQ			
8+10	0.7444	2.50	VQ			
8+15	0.7619	2.54	V Q			
8+20	0.7795	2.56	V Q			
8+25	0.7972	2.57	V Q			
8+30	0.8150	2.58	VQ			
8+35	0.8331	2.63	VQ			
8+40	0.8518	2.71	VQ			
8+45	0.8706	2.73	VQ			
8+50	0.8898	2.79	VQ			
8+55	0.9097	2.88	VQ			
9+ 0	0.9297	2.90	VQ			
9+ 5	0.9504	3.01	V Q			
9+10	0.9724	3.18	V Q			
9+15	0.9946	3.23	VQ			
9+20	1.0173	3.30	V Q			

```
 9+25     1.0407    3.39 |       |V Q     |       |       |
 9+30     1.0643    3.42 |       |V Q     |       |       |
 9+35     1.0882    3.48 |       | VQ     |       |       |
 9+40     1.1128    3.57 |       | V Q    |       |       |
 9+45     1.1375    3.59 |       | V Q    |       |       |
 9+50     1.1627    3.65 |       |  VQ    |       |       |
 9+55     1.1884    3.74 |       |  VQ    |       |       |
10+ 0     1.2144    3.76 |       |  V Q   |       |       |
10+ 5     1.2379    3.42 |       |  Q     |       |       |
10+10     1.2575    2.85 |       |Q  V    |       |       |
10+15     1.2761    2.70 |       Q   V    |       |       |
10+20     1.2943    2.64 |       Q   V    |       |       |
10+25     1.3122    2.60 |       Q   V    |       |       |
10+30     1.3300    2.58 |       Q   V    |       |       |
10+35     1.3495    2.83 |       |Q  V    |       |       |
10+40     1.3719    3.24 |       | Q  V   |       |       |
10+45     1.3949    3.35 |       |  Q V   |       |       |
10+50     1.4183    3.39 |       |  Q V   |       |       |
10+55     1.4418    3.42 |       |  Q  V  |       |       |
11+ 0     1.4655    3.44 |       |  Q  V  |       |       |
11+ 5     1.4889    3.39 |       |  Q  V  |       |       |
11+10     1.5116    3.31 |       |  Q   V |       |       |
11+15     1.5342    3.28 |       |  Q   V |       |       |
11+20     1.5568    3.27 |       |  Q   V |       |       |
11+25     1.5793    3.27 |       |  Q   V |       |       |
11+30     1.6018    3.27 |       |  Q    V|       |       |
11+35     1.6236    3.17 |       | Q     V|       |       |
11+40     1.6443    3.00 |       | Q     V|       |       |
11+45     1.6646    2.96 |       |Q      V|       |       |
11+50     1.6852    2.99 |       |Q      V|       |       |
11+55     1.7063    3.06 |       | Q     V|       |       |
12+ 0     1.7275    3.08 |       | Q     V|       |       |
12+ 5     1.7512    3.44 |       |  Q    V|       |       |
12+10     1.7789    4.02 |       |    Q   V       |       |
12+15     1.8076    4.17 |       |    Q   V       |       |
12+20     1.8372    4.29 |       |     Q  V       |       |
12+25     1.8675    4.40 |       |     Q  |V      |       |
12+30     1.8982    4.45 |       |     Q  |V      |       |
12+35     1.9296    4.56 |       |      Q |V      |       |
12+40     1.9622    4.73 |       |      Q | V     |       |
12+45     1.9951    4.78 |       |       Q| V     |       |
12+50     2.0285    4.85 |       |       Q| V     |       |
12+55     2.0625    4.94 |       |       Q|  V    |       |
13+ 0     2.0967    4.97 |       |       Q|  V    |       |
13+ 5     2.1327    5.23 |       |       Q   V    |       |
13+10     2.1716    5.65 |       |        | Q V   |       |
13+15     2.2112    5.76 |       |        |  QV   |       |
13+20     2.2512    5.80 |       |        |  Q V  |       |
13+25     2.2913    5.83 |       |        |  Q V  |       |
13+30     2.3316    5.84 |       |        |  Q  V |       |
13+35     2.3680    5.29 |       |        |Q    V |       |
13+40     2.3981    4.38 |       |     Q  |     V |       |
13+45     2.4267    4.15 |       |    Q   |     V |       |
13+50     2.4546    4.05 |       |    Q   |     V |       |
13+55     2.4821    3.99 |       |   Q    |     V |       |
14+ 0     2.5094    3.95 |       |   Q    |     V |       |
14+ 5     2.5380    4.16 |       |    Q   |     V |       |
14+10     2.5689    4.49 |       |     Q  |     V |       |
14+15     2.6004    4.57 |       |      Q |      V|       |
14+20     2.6317    4.56 |       |      Q |      V|       |
14+25     2.6627    4.49 |       |     Q  |      V|       |
14+30     2.6936    4.49 |       |     Q  |       V       |
14+35     2.7244    4.48 |       |     Q  |       V       |
14+40     2.7552    4.47 |       |     Q  |       |V      |
14+45     2.7860    4.47 |       |     Q  |       |V      |
14+50     2.8165    4.42 |       |     Q  |       |V      |
```

```
14+55     2.8463    4.34 |      |     Q |      | V     |
15+ 0     2.8760    4.32 |      |     Q |      | V     |
15+ 5     2.9054    4.26 |      |     Q |      | V     |
15+10     2.9341    4.17 |      |    Q  |      |  V    |
15+15     2.9626    4.14 |      |    Q  |      |  V    |
15+20     2.9907    4.08 |      |    Q  |      |  V    |
15+25     3.0182    4.00 |      |   Q   |      |  V    |
15+30     3.0456    3.97 |      |   Q   |      |   V   |
15+35     3.0715    3.76 |      |   Q   |      |   V   |
15+40     3.0951    3.43 |      | Q     |      |   V   |
15+45     3.1181    3.34 |      | Q     |      |    V  |
15+50     3.1408    3.30 |      | Q     |      |    V  |
15+55     3.1634    3.28 |      | Q     |      |    V  |
16+ 0     3.1859    3.27 |      | Q     |      |   V   |
16+ 5     3.2032    2.51 |      Q        |      |   V   |
16+10     3.2119    1.27 |   Q   |       |      |    V  |
16+15     3.2185    0.96 |  Q    |       |      |    V  |
16+20     3.2241    0.82 |  Q    |       |      |    V  |
16+25     3.2293    0.74 | Q     |       |      |    V  |
16+30     3.2340    0.69 | Q     |       |      |    V  |
16+35     3.2384    0.64 | Q     |       |      |    V  |
16+40     3.2422    0.55 | Q     |       |      |    V  |
16+45     3.2459    0.53 | Q     |       |      |    V  |
16+50     3.2495    0.52 | Q     |       |      |    V  |
16+55     3.2531    0.52 | Q     |       |      |    V  |
17+ 0     3.2566    0.52 | Q     |       |      |   V   |
17+ 5     3.2609    0.62 | Q     |       |      |   V   |
17+10     3.2662    0.78 |  Q    |       |      |    V  |
17+15     3.2719    0.82 |  Q    |       |      |    V  |
17+20     3.2777    0.84 |  Q    |       |      |    V  |
17+25     3.2836    0.85 |  Q    |       |      |    V  |
17+30     3.2895    0.86 |  Q    |       |      |     V |
17+35     3.2954    0.86 |  Q    |       |      |     V |
17+40     3.3013    0.86 |  Q    |       |      |     V |
17+45     3.3073    0.86 |  Q    |       |      |     V |
17+50     3.3128    0.81 |  Q    |       |      |     V |
17+55     3.3178    0.73 | Q     |       |      |     V |
18+ 0     3.3227    0.71 | Q     |       |      |    V  |
18+ 5     3.3275    0.70 | Q     |       |      |    V  |
18+10     3.3323    0.69 | Q     |       |      |     V |
18+15     3.3370    0.69 | Q     |       |      |     V |
18+20     3.3417    0.69 | Q     |       |      |     V |
18+25     3.3465    0.69 | Q     |       |      |     V |
18+30     3.3512    0.69 | Q     |       |      |     V |
18+35     3.3556    0.64 | Q     |       |      |     V |
18+40     3.3594    0.55 | Q     |       |      |     V |
18+45     3.3631    0.53 | Q     |       |      |     V |
18+50     3.3663    0.47 |Q      |       |      |     V |
18+55     3.3690    0.39 |Q      |       |      |     V |
19+ 0     3.3715    0.36 |Q      |       |      |    V  |
19+ 5     3.3743    0.40 |Q      |       |      |     V |
19+10     3.3776    0.48 |Q      |       |      |     V |
19+15     3.3810    0.50 |Q      |       |      |     V |
19+20     3.3849    0.56 | Q     |       |      |     V |
19+25     3.3893    0.65 | Q     |       |      |     V |
19+30     3.3939    0.67 | Q     |       |      |     V |
19+35     3.3982    0.63 | Q     |       |      |     V |
19+40     3.4020    0.55 | Q     |       |      |     V |
19+45     3.4057    0.53 | Q     |       |      |     V |
19+50     3.4090    0.47 |Q      |       |      |     V |
19+55     3.4116    0.39 |Q      |       |      |     V |
20+ 0     3.4141    0.36 |Q      |       |      |     V |
20+ 5     3.4169    0.40 |Q      |       |      |     V |
20+10     3.4202    0.48 |Q      |       |      |     V |
20+15     3.4236    0.50 |Q      |       |      |     V |
20+20     3.4271    0.51 | Q     |       |      |     V |
```

20+25	3.4307	0.51	| Q	|	|	|	V |
20+30	3.4342	0.52	| Q	|	|	|	V |
20+35	3.4378	0.52	| Q	|	|	|	V |
20+40	3.4413	0.52	| Q	|	|	|	V |
20+45	3.4449	0.52	| Q	|	|	|	V |
20+50	3.4481	0.47	|Q	|	|	|	V |
20+55	3.4507	0.38	|Q	|	|	|	V |
21+ 0	3.4532	0.36	|Q	|	|	|	V |
21+ 5	3.4560	0.40	|Q	|	|	|	V |
21+10	3.4593	0.48	|Q	|	|	|	V |
21+15	3.4627	0.50	|Q	|	|	|	V |
21+20	3.4658	0.46	|Q	|	|	|	V|
21+25	3.4685	0.38	|Q	|	|	|	V|
21+30	3.4709	0.36	|Q	|	|	|	V|
21+35	3.4737	0.40	|Q	|	|	|	V|
21+40	3.4770	0.48	|Q	|	|	|	V|
21+45	3.4805	0.50	|Q	|	|	|	V|
21+50	3.4836	0.46	|Q	|	|	|	V|
21+55	3.4862	0.38	|Q	|	|	|	V|
22+ 0	3.4887	0.36	|Q	|	|	|	V|
22+ 5	3.4915	0.40	|Q	|	|	|	V|
22+10	3.4948	0.48	|Q	|	|	|	V|
22+15	3.4982	0.50	|Q	|	|	|	V|
22+20	3.5014	0.46	|Q	|	|	|	V|
22+25	3.5040	0.38	|Q	|	|	|	V|
22+30	3.5065	0.36	|Q	|	|	|	V|
22+35	3.5089	0.35	|Q	|	|	|	V|
22+40	3.5113	0.35	|Q	|	|	|	V|
22+45	3.5137	0.34	|Q	|	|	|	V|
22+50	3.5160	0.34	|Q	|	|	|	V|
22+55	3.5184	0.34	|Q	|	|	|	V|
23+ 0	3.5208	0.34	|Q	|	|	|	V|
23+ 5	3.5231	0.34	|Q	|	|	|	V|
23+10	3.5255	0.34	|Q	|	|	|	V|
23+15	3.5279	0.34	|Q	|	|	|	V|
23+20	3.5302	0.34	|Q	|	|	|	V|
23+25	3.5326	0.34	|Q	|	|	|	V|
23+30	3.5350	0.34	|Q	|	|	|	V|
23+35	3.5373	0.34	|Q	|	|	|	V|
23+40	3.5397	0.34	|Q	|	|	|	V|
23+45	3.5421	0.34	|Q	|	|	|	V|
23+50	3.5444	0.34	|Q	|	|	|	V|
23+55	3.5468	0.34	|Q	|	|	|	V|
24+ 0	3.5492	0.34	|Q	|	|	|	V|
24+ 5	3.5508	0.24	Q	|	|	|	V|
24+10	3.5514	0.08	Q	|	|	|	V|
24+15	3.5516	0.04	Q	|	|	|	V|
24+20	3.5517	0.02	Q	|	|	|	V|
24+25	3.5518	0.01	Q	|	|	|	V



LEGEND

- DRAINAGE MANAGEMENT BOUNDARY
- FLOW DIRECTION
- L=14XX' LCA=1000' — LONGEST FLOW PATH CENTROIDAL LENGTH
- 101 / 14XX — NODE DESIGNATION, NODE ELEVATION
- XXXX.X INV — INVERT ELEVATION
- 5.0 / 1000 — WATERSHED AREA (ACRES), LONGEST WATER PATH (FT)
- CENTROID

N W E S

1" = 80'

80 0 80 160 240

CITY OF MORENO VALLEY

UNIT HYDROGRAPH HYDROLOGY
EXISITNG UNIT HYDROGRAPH
FIRST DAY STREET LOGISTICS (PEN22-0144)

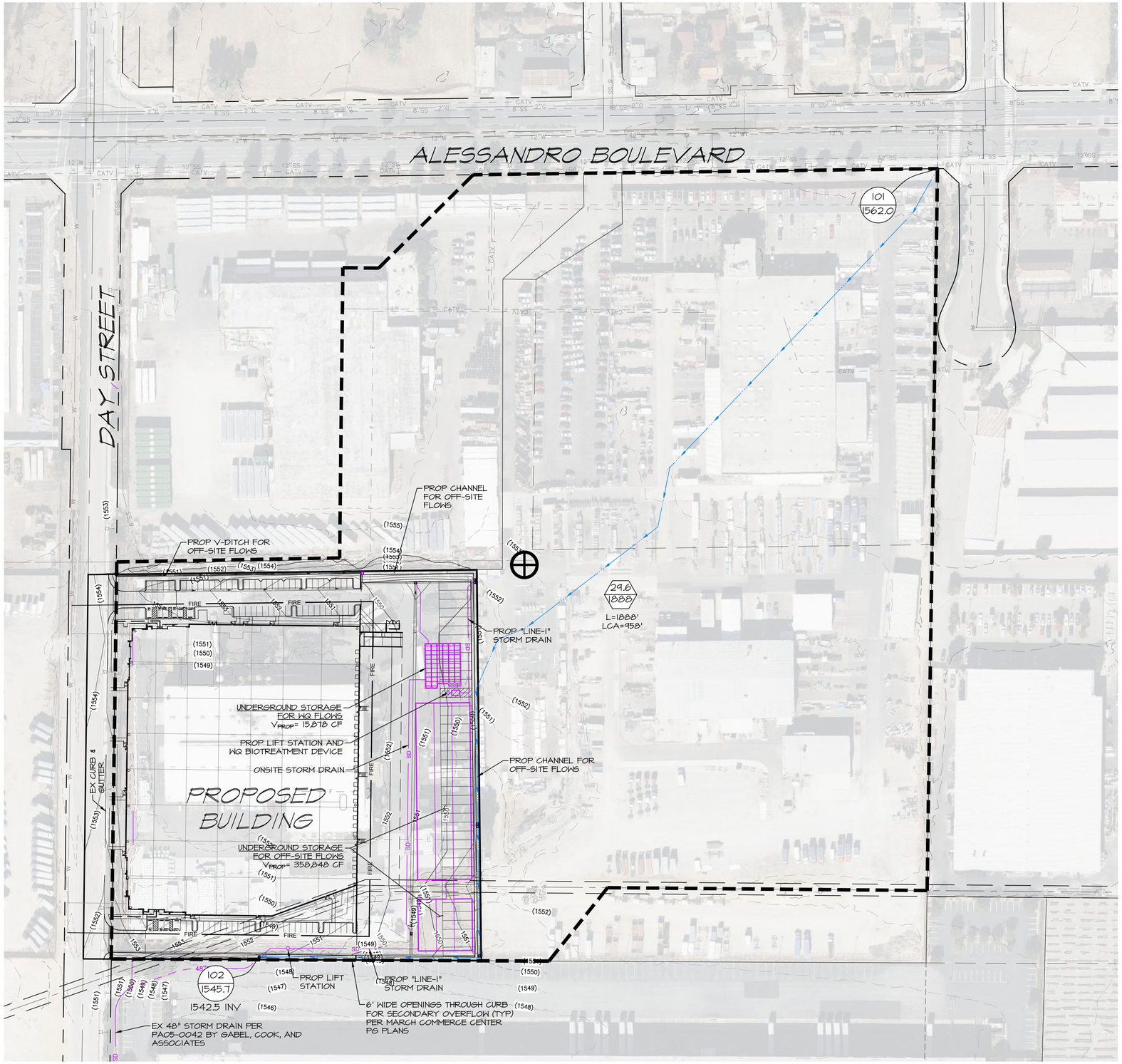
SCALE:	1" = 80'
DATE:	9/21/22
DESIGNED:	ABE
CHECKED:	SKK
PLN CK REF:	
F.B.	

ALBERT A. WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
RIVERSIDE, CA. 92506
PH. (951) 686-1070
FAX (951) 788-1256

W.O.	22-0028
SHEET	1
OF	2 SHEETS
DWG. NO.	

H:\2022\22-0028\DRAINAGE\HYD\DWG FOLDER\22-0028 P-HYD-UH.DWG 9/27/2022 8:01:43 AM

ALL DONE



LEGEND

- DRAINAGE MANAGEMENT BOUNDARY
- FLOW DIRECTION
- L=14XX' LCA=1000' — LONGEST FLOW PATH CENTROIDAL LENGTH
- 101 / 14XX — NODE DESIGNATION NODE ELEVATION
- XXXX.X INV — INVERT ELEVATION
- 5.0 / 1000 — WATERSHED AREA (ACRES) LONGEST WATER PATH (FT)
- CENTROID

N W E S

1" = 80'

80 0 80 160 240

CITY OF MORENO VALLEY

UNIT HYDROGRAPH HYDROLOGY
PROPOSED UNIT HYDROGRAPH
FIRST DAY STREET LOGISTICS (PEN22-0144)

SCALE:	1" = 80'	ALBERT A. WEBB ASSOCIATES	W.O. 22-0028
DATE:	9/27/22	ENGINEERING CONSULTANTS 3788 McCRAY STREET RIVERSIDE CA. 92506 PH. (951) 686-1070 FAX (951) 788-1256	SHEET 2
DESIGNED:	ABE		OF 2 SHEETS
CHECKED:	SKK		
PLN CK REF:			DWG. NO.
F.B.			

H:\2022\22-0028\DRAINAGE\HYD\DWG FOLDER\22-0028 P-HYD-UH.DWG 9/27/2022 1:17:30 PM

ALL LEGIBLE

Appendix 8: Source Control

Pollutant Sources/Source Control Checklist

STORMWATER POLLUTANT SOURCES/SOURCE CONTROL CHECKLIST

How to use this worksheet (also see instructions in Section G of the WQMP Template):

1. Review Column 1 and identify which of these potential sources of stormwater pollutants apply to your site. Check each box that applies.
2. Review Column 2 and incorporate all of the corresponding applicable BMPs in your WQMP Exhibit.
3. Review Columns 3 and 4 and incorporate all of the corresponding applicable permanent controls and operational BMPs in your WQMP. Use the format shown in Table G.1on page 23 of this WQMP Template. Describe your specific BMPs in an accompanying narrative, and explain any special conditions or situations that required omitting BMPs or substituting alternative BMPs for those shown here.

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☒ A. **On-site storm drain inlets**	☒ **Locations of inlets.**	☒ **Mark all inlets with the words "Only Rain Down the Storm Drain" or similar. Catch Basin Markers may be available from the Riverside County Flood Control and Water Conservation District, call 951.955.1200 to verify.**	☒ **Maintain and periodically repaint or replace inlet markings.** ☒ **Provide stormwater pollution prevention information to new site owners, lessees, or operators.** ☒ **See applicable operational BMPs in Fact Sheet SC-44, "Drainage System Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com** ☒ **Include the following in lease agreements: "Tenant shall not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains."**
☒ B. **Interior floor drains and elevator shaft sump pumps**		☒ **State that interior floor drains and elevator shaft sump pumps will be plumbed to sanitary sewer.**	☒ **Inspect and maintain drains to prevent blockages and overflow.**
☐ C. **Interior parking garages**		☐ **State that parking garage floor drains will be plumbed to the sanitary sewer.**	☐ **Inspect and maintain drains to prevent blockages and overflow.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☐ D1. **Need for future indoor & structural pest control**		☐ **Note building design features that discourage entry of pests.**	☐ **Provide Integrated Pest Management information to owners, lessees, and operators.**
☒ D2. **Landscape/ Outdoor Pesticide Use**	☐ **Show locations of native trees or areas of shrubs and ground cover to be undisturbed and retained.** ☐ **Show self-retaining landscape areas, if any.** ☒ **Show stormwater treatment and hydrograph modification management BMPs. (See instructions in Chapter 3, Step 5 and guidance in Chapter 5.)**	**State that final landscape plans will accomplish all of the following.** ☒ **Preserve existing native trees, shrubs, and ground cover to the maximum extent possible.** ☒ **Design landscaping to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution.** ☒ **Where landscaped areas are used to retain or detain stormwater, specify plants that are tolerant of saturated soil conditions.** ☒ **Consider using pest-resistant plants, especially adjacent to hardscape.** **To insure successful establishment, select plants appropriate to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions.**	☒ **Maintain landscaping using minimum or no pesticides.** ☒ **See applicable operational BMPs in "What you should know for…..Landscape and Gardening"** at http://rcflood.org/stormwater/**Error! Hyperlink reference not valid.** ☒ **Provide IPM information to new owners, lessees and operators.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☐ E. **Pools, spas, ponds, decorative fountains, and other water features.**	☐ **Show location of water feature and a sanitary sewer cleanout in an accessible area within 10 feet. (Exception: Public pools must be plumbed according to County Department of Environmental Health Guidelines.)**	**If the Co-Permittee requires pools to be plumbed to the sanitary sewer, place a note on the plans and state in the narrative that this connection will be made according to local requirements.**	☐ **See applicable operational BMPs in** "Guidelines for Maintaining Your Swimming Pool, Jacuzzi and Garden Fountain" at http://rcflood.org/stormwater/
☐ F. **Food service**	☐ **For restaurants, grocery stores, and other food service operations, show location (indoors or in a covered area outdoors) of a floor sink or other area for cleaning floor mats, containers, and equipment.** ☐ **On the drawing, show a note that this drain will be connected to a grease interceptor before discharging to the sanitary sewer.**	☐ **Describe the location and features of the designated cleaning area.** ☐ **Describe the items to be cleaned in this facility and how it has been sized to insure that the largest items can be accommodated.**	☐ **See the brochure, "**The Food Service Industry Best Management Practices for: Restaurants, Grocery Stores, Delicatessens and Bakeries" at http://rcflood.org/stormwater/ **Provide this brochure to new site owners, lessees, and operators.**
☒ G. **Refuse areas**	☒ **Show where site refuse and recycled materials will be handled and stored for pickup. See local municipal requirements for sizes and other details of refuse areas.** ☒ **If dumpsters or other receptacles are outdoors, show how the designated area will be covered, graded, and paved to prevent run-on and show locations of berms to prevent runoff from the area.** ☒ **Any drains from dumpsters, compactors, and tallow bin areas shall be connected to a grease removal device before discharge to sanitary sewer.**	☒ **State how site refuse will be handled and provide supporting detail to what is shown on plans.** ☒ **State that signs will be posted on or near dumpsters with the words "Do not dump hazardous materials here" or similar.**	☒ **State how the following will be implemented:** **Provide adequate number of receptacles. Inspect receptacles regularly; repair or replace leaky receptacles. Keep receptacles covered. Prohibit/prevent dumping of liquid or hazardous wastes. Post "no hazardous materials" signs. Inspect and pick up litter daily and clean up spills immediately. Keep spill control materials available on-site. See Fact Sheet SC-34, "Waste Handling and Disposal" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

STORMWATER POLLUTANT SOURCES/SOURCE CONTROL CHECKLIST

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☒ H. **Industrial processes.**	☒ **Show process area.**	☒ **If industrial processes are to be located on site, state: "All process activities to be performed indoors. No processes to drain to exterior or to storm drain system."**	☒ **See Fact Sheet SC-10, "Non-Stormwater Discharges" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com** See the brochure "Industrial & Commercial Facilities Best Management Practices for: Industrial, Commercial Facilities" at http://rcflood.org/stormwater/

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ I. **Outdoor storage of equipment or materials. (See rows J and K for source control measures for vehicle cleaning, repair, and maintenance.)**	❑ **Show any outdoor storage areas, including how materials will be covered. Show how areas will be graded and bermed to prevent run-on or run-off from area.** ❑ **Storage of non-hazardous liquids shall be covered by a roof and/or drain to the sanitary sewer system, and be contained by berms, dikes, liners, or vaults.** ❑ **Storage of hazardous materials and wastes must be in compliance with the local hazardous materials ordinance and a Hazardous Materials Management Plan for the site.**	**Include a detailed description of materials to be stored, storage areas, and structural features to prevent pollutants from entering storm drains.** **Where appropriate, reference documentation of compliance with the requirements of Hazardous Materials Programs for:** ▪ **Hazardous Waste Generation** ▪ **Hazardous Materials Release Response and Inventory** ▪ **California Accidental Release (CalARP)** ▪ **Aboveground Storage Tank** ▪ **Uniform Fire Code Article 80 Section 103(b) & (c) 1991** ▪ **Underground Storage Tank** **www.cchealth.org/groups/hazmat/**	❑ **See the Fact Sheets SC-31, "Outdoor Liquid Container Storage" and SC-33, "Outdoor Storage of Raw Materials " in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ J. **Vehicle and Equipment Cleaning**	❑ **Show on drawings as appropriate:** **(1) Commercial/industrial facilities having vehicle/equipment cleaning needs shall either provide a covered, bermed area for washing activities or discourage vehicle/equipment washing by removing hose bibs and installing signs prohibiting such uses.** **(2) Multi-dwelling complexes shall have a paved, bermed, and covered car wash area (unless car washing is prohibited on-site and hoses are provided with an automatic shut-off to discourage such use).** **(3) Washing areas for cars, vehicles, and equipment shall be paved, designed to prevent run-on to or runoff from the area, and plumbed to drain to the sanitary sewer.** **(4) Commercial car wash facilities shall be designed such that no runoff from the facility is discharged to the storm drain system. Wastewater from the facility shall discharge to the sanitary sewer, or a wastewater reclamation system shall be installed.**	❑ **If a car wash area is not provided, describe any measures taken to discourage on-site car washing and explain how these will be enforced.**	**Describe operational measures to implement the following (if applicable):** ❑ **Washwater from vehicle and equipment washing operations shall not be discharged to the storm drain system.** Refer to "Outdoor Cleaning Activities and Professional Mobile Service Providers" for many of the Potential Sources of Runoff Pollutants categories below. Brochure can be found at http://rcflood.org/stormwater/ ❑**Car dealerships and similar may rinse cars with water only.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ K. **Vehicle/Equipment Repair and Maintenance**	❑ **Accommodate all vehicle equipment repair and maintenance indoors. Or designate an outdoor work area and design the area to prevent run-on and runoff of stormwater.** ❑ **Show secondary containment for exterior work areas where motor oil, brake fluid, gasoline, diesel fuel, radiator fluid, acid-containing batteries or other hazardous materials or hazardous wastes are used or stored. Drains shall not be installed within the secondary containment areas.** ❑ **Add a note on the plans that states either (1) there are no floor drains, or (2) floor drains are connected to wastewater pretreatment systems prior to discharge to the sanitary sewer and an industrial waste discharge permit will be obtained.**	❑ **State that no vehicle repair or maintenance will be done outdoors, or else describe the required features of the outdoor work area.** ❑ **State that there are no floor drains or if there are floor drains, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.** ❑ **State that there are no tanks, containers or sinks to be used for parts cleaning or rinsing or, if there are, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.**	**In the Stormwater Control Plan, note that all of the following restrictions apply to use the site:** ❑ **No person shall dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinsewater from parts cleaning into storm drains.** ❑ **No vehicle fluid removal shall be performed outside a building, nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids shall be contained or drained from the vehicle immediately.** ❑ **No person shall leave unattended drip parts or other open containers containing vehicle fluid, unless such containers are in use or in an area of secondary containment.** Refer to "Automotive Maintenance & Car Care Best Management Practices for Auto Body Shops, Auto Repair Shops, Car Dealerships, Gas Stations and Fleet Service Operations". Brochure can be found at http://rcflood.org/stormwater/ Refer to Outdoor Cleaning Activities and Professional Mobile Service Providers for many of the Potential Sources of Runoff Pollutants categories below. Brochure can be found at http://rcflood.org/stormwater/

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
❑ L. **Fuel Dispensing Areas**	❑ **Fueling areas[6] shall have impermeable floors (i.e., portland cement concrete or equivalent smooth impervious surface) that are: a) graded at the minimum slope necessary to prevent ponding; and b) separated from the rest of the site by a grade break that prevents run-on of stormwater to the maximum extent practicable.** ❑ **Fueling areas shall be covered by a canopy that extends a minimum of ten feet in each direction from each pump. [Alternative: The fueling area must be covered and the cover's minimum dimensions must be equal to or greater than the area within the grade break or fuel dispensing area[1].] The canopy [or cover] shall not drain onto the fueling area.**		❑ **The property owner shall dry sweep the fueling area routinely.** ❑ **See the Fact Sheet SD-30 , "Fueling Areas" in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

[6] **The fueling area shall be defined as the area extending a minimum of 6.5 feet from the corner of each fuel dispenser or the length at which the hose and nozzle assembly may be operated plus a minimum of one foot, whichever is greater.**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☒ M. **Loading Docks**	☒ **Show a preliminary design for the loading dock area, including roofing and drainage. Loading docks shall be covered and/or graded to minimize run-on to and runoff from the loading area. Roof downspouts shall be positioned to direct stormwater away from the loading area. Water from loading dock areas shall be drained to the sanitary sewer, or diverted and collected for ultimate discharge to the sanitary sewer.** ☒ **Loading dock areas draining directly to the sanitary sewer shall be equipped with a spill control valve or equivalent device, which shall be kept closed during periods of operation.** ☒ **Provide a roof overhang over the loading area or install door skirts (cowling) at each bay that enclose the end of the trailer.**		☒ **Move loaded and unloaded items indoors as soon as possible.** ☒ **See Fact Sheet SC-30, "Outdoor Loading and Unloading," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☒ N. **Fire Sprinkler Test Water**		☒ **Provide a means to drain fire sprinkler test water to the sanitary sewer.**	☒ **See the note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at www.cabmphandbooks.com**
☒ O. **Miscellaneous Drain or Wash Water or Other Sources** ☐ **Boiler drain lines** ☐ **Condensate drain lines** ☐ **Rooftop equipment** ☐ **Drainage sumps** ☐ **Roofing, gutters, and trim.** ☐ **Other sources**		☒ **Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system.** ☒ **Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur. Condensate drain lines may not discharge to the storm drain system.** ☒ **Rooftop equipment with potential to produce pollutants shall be roofed and/or have secondary containment.** ☒ **Any drainage sumps on-site shall feature a sediment sump to reduce the quantity of sediment in pumped water.** ☒ **Avoid roofing, gutters, and trim made of copper or other unprotected metals that may leach into runoff.** **Include controls for other sources as specified by local reviewer.**	

STORMWATER POLLUTANT SOURCES/SOURCE CONTROL CHECKLIST

IF THESE SOURCES WILL BE ON THE PROJECT SITE ...	... THEN YOUR WQMP SHOULD INCLUDE THESE SOURCE CONTROL BMPs, AS APPLICABLE		
1 Potential Sources of Runoff Pollutants	2 Permanent Controls—Show on WQMP Drawings	3 Permanent Controls—List in WQMP Table and Narrative	4 Operational BMPs—Include in WQMP Table and Narrative
☒ P. **Plazas, sidewalks, and parking lots.**			☒ **Sweep plazas, sidewalks, and parking lots regularly to prevent accumulation of litter and debris. Collect debris from pressure washing to prevent entry into the storm drain system. Collect washwater containing any cleaning agent or degreaser and discharge to the sanitary sewer not to a storm drain.**

Appendix 9: O&M

Operation and Maintenance Plan and Documentation of Finance, Maintenance and Recording Mechanisms

***To be provided during final engineering**

Appendix 10: Educational Materials

BMP Fact Sheets, Maintenance Guidelines and Other End-User BMP Information

***To be provided during final engineering**

Appendix 11: Reference Documents

Reference Documents for Adjacent Projects

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDENCREST DRIVE

GENERAL NOTES:

1.) ALL WORK CALLED FOR ON THE PLANS SHALL BE IN COMPLIANCE WITH CURRENT CITY STANDARD SPECIFICATIONS ADOPTED BY THE CITY COUNCIL, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS FOR THE SUBJECT PROJECT.

2.) A CONSTRUCTION PERMIT MUST BE OBTAINED FROM THE LAND DEVELOPMENT DIVISION OF THE PUBLIC WORKS DEPARTMENT COUNTER BY THE CONTRACTOR PRIOR TO GRADING AND/OR CONSTRUCTION WORK OF ANY TYPE WITHIN THE PUBLIC RIGHT OF WAY.

3.) A TEMPORARY STREET CLOSURE PERMIT IS REQUIRED IN ALL CASES WHERE WORK WILL INTERFERE WITH EITHER VEHICULAR OR PEDESTRIAN TRAFFIC.

4.) CITY INSPECTION OF THE WORK CALLED FOR ON THE PLANS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR AND / OR THE DEVELOPER OF THEIR OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

5.) ANY ALTERATIONS OR VARIANCES FROM THE PLANS, EXCEPT MINOR ADJUSTMENTS IN THE FIELD TO MEET EXISTING CONDITIONS, SHALL BE REQUESTED IN WRITING AND MAY NOT BE INSTITUTED UNTIL APPROVED BY THE CITY ENGINEER OR DESIGNATED REPRESENTATIVE ACTING SPECIFICALLY ON HIS/HER INSTRUCTIONS.

6.) ALL ELEVATIONS SHOWN ON THE PLAN ARE ESTABLISHED BY LOCAL BENCH MARK. SURVEY MONUMENTS SHALL BE PROTECTED IN PLACE.

7.) QUANTITIES, AS SHOWN ON THE PLAN ARE ESTIMATED, AND THE CONTRACTOR IS ADVISED THAT ALL FINAL QUANTITIES OF MATERIAL AND WORK IN PLACE MAY BE SOMEWHAT GREATER OR LESS THAN THOSE INDICATED ON THE PLANS.

8.) CONCRETE GUTTERS, ALLEY APPROACHES, DRIVEWAYS OR OTHER CONCRETE ITEMS SUBJECT TO VEHICULAR TRAFFIC SHALL BE BARRICADED WITH NO VEHICULAR TRAFFIC PERMITTED FOR A PERIOD OF NO LESS THAN SEVEN DAYS FOLLOWING IN THE PLACEMENT OF SAID CONCRETE ITEM(S). WHEN THE GENERAL PROVISIONS CALL FOR USE OF SAID CONCRETE ITEM(S) BEFORE VEHICULAR TRAFFIC EARLIER THAN SEVEN DAYS FOR CONVENIENCE OF OPERATION OR WHEN THE CONTRACTOR SO DESIRES, CONCRETE CONTAINING EIGHT SACKS OF CEMENT PER CUBIC YARD SHALL BE USED UNDER THE DIRECTION OF THE CITY ENGINEER TO ALLOW TRAFFIC AFTER SEVENTY TWO HOURS OF PLACEMENT OF CONCRETE.

9.) IRRIGATION LINE WITHIN ANY CITY STREET SHALL HAVE A THIRTY INCH MINIMUM COVER FROM FINISH SURFACE, UNLESS SAID IRRIGATION LINE IS ENCASED IN CONCRETE OR BEDDED IN A SPECIAL CONCRETE CRADLE.

10.) THE CONTRACTOR SHALL OPERATE IN A MANNER COMPLIANT WITH ALL APPLICABLE SECTIONS OF THE MUNICIPAL CODE AND COMPLIANT WITH ALL APPLICABLE CITY COUNCIL RESOLUTIONS.

11.) THE LOCATION OF UNDERGROUND UTILITY OR IRRIGATION LINES AS SHOWN ON THE PLANS, IS APPROXIMATE, AND SINCE THE ACTUAL LOCATIONS MAY BE SOMEWHAT DIFFERENT FROM THAT SHOWN, THE CONTRACTOR IS REQUIRED TO CONTACT THE INTERESTED UTILITY OR WATER COMPANY BEFORE EXCAVATING IN THE VICINITY OF ANY SUCH LINES.

12.) PARKWAY TREES INSTALLED BY THE DEVELOPER SHALL BE PLANTED AND MAINTAINED IN COMPLIANCE WITH THE APPROPRIATE CITY STANDARD.

13.) ALL STREET NAME AND TRAFFIC REGULATORY SIGNS INDICATED ON THE PLANS WILL BE INSTALLED BY THE DEVELOPER IN ACCORDANCE WITH THE APPROPRIATE CITY STANDARDS.

14.) ALL STREET LIGHTS INDICATED ON THE PLANS SHALL BE INSTALLED BY THE LOCAL ELECTRIC UTILITY COMPANY. THE DEVELOPER SHALL WORK DIRECTLY WITH THE COMPANY WHEN THE LIGHTS ARE TO BE SERVED FROM AN UNDERGROUND SYSTEM.

15.) AN APPROVED WEED KILLER SHALL BE APPLIED TO THE PREPARED BASE PRIOR TO ASPHALT PAVING IN ALL AREAS WHERE THERE IS ANY EVIDENCE OF HUMUS OR ORGANIC MATERIAL PRESENT IN THE BASE (EITHER NATIVE OR IMPORTED) MATERIAL. ALL WEED KILLERS SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.

16.) PROVISIONS SHALL BE MADE BY THE CONTRACTOR FOR CONTRIBUTORY DRAINAGE AT ALL TIMES.

17) WHEN APPLICABLE, ALL ANTI GRAFFITI COATING SHALL BE SHALL BE VITROCEM HI-BUILD GRAFFITI GLAZED COATING FOR CONCRETE BLOCK OR AN EQUAL APPROVED BY THE CITY ENGINEER.

DECLARATION OF ENGINEER OF RECORD

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF MORENO VALLEY IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THAT THE PLANS COMPLY WITH CITY PROCEDURES, APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS. AS ENGINEER OF RECORD, (E.O.R.) I AGREE TO INDEMNIFY AND HOLD THE CITY OF MORENO VALLEY, THE COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY (RDA), AND THE MORENO VALLEY COMMUNITY SERVICES DISTRICT (CSD), ITS OFFICERS, AGENTS AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY OF CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF RECORDS, ANY EMPLOYEES, AGENTS OR CONSULTANTS.

ENGINEER'S NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OF STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

ABBREVIATIONS

A.B.	AGGREGATE BASE	L.S.	LANDSCAPING
ARCH.	ARCHITECTURAL	L.P.	LOW POINT
A.C.	ASPHALT CONCRETE	M.H.	MANHOLE
B.W.	BACK OF WALK	N.G.	NATURAL GRADE
B.C.R.	BEGINNING OF CURVE	PKWY DRAIN	PARKWAY DRAIN
B.O.P.	BOTTOM OF PIPE	P.P.	POWER POLE
B.O.W.	BOTTOM OF WALL	P.	PROPERTY LINE
BLDG	BUILDING	P.V.C.	POLYVINYLCHLORIDE
C.I.P.	CAST IRON PIPE	R	RATE OF GRADE
C.B.	CATCH BASIN	R.C.P.	REINFORCED CONCRETE PIPE
℄	CENTERLINE	R.D.	ROOF DRAIN
C.L.F.	CHAIN LINK FENCE	R/W	RIGHT OF WAY
CONC.	CONCRETE	S	SLOPE
C.M.B.	CRUSHED MISC. BASE	S.F.	SQUARE FEET
C.F.	CURB FACE	S.D.	STORM DRAIN
E.P.	EDGE OF PAVEMENT	ST.LT.	STREET LIGHT
E.C.R.	END OF CURVE	T.B.	TOP OF BERM
EXIST. (0.00)	EXISTING	T.C.	TOP OF CURB
	EXISTING ELEVATION	T.S.	TOP OF CONCRETE SLAB
F.F.	FINISH FLOOR	T.E.	TRASH ENCLOSURE
F.G.	FINISH GRADE	TRANS PAD	TRANSFORMER PAD
F.S.	FINISH SURFACE	T.F.	TOP OF FOOTING
F.H.	FIRE HYDRANT	T.G.	TOP OF GRATE
F.L.	FLOW LINE	TOE	TOE OF SLOPE
G.B.	GRADE BREAK	TOP	TOP OF SLOPE
H.C.	HANDICAP	T.O.P.	TOP OF PIPE
H	HEIGHT OF RETAINING	T.R.	TOP OF RAIL
H.P.	HIGH POINT	T.W.	TOP OF WALL
INV.	INVERT		

FINAL RECOMMENDATION OF WQMP

THE SAND AND GRAVEL BED IN THE TREATMENT BASIN SHALL NOT BE INSTALLED UNTIL THE FOLLOWING CONDITIONS ARE MET:

a. GRADING IS COMPLETE.
b. THE BUILDING SHELL IS COMPLETE.
c. THE PARKING LOT AND DRIVE AISLES ARE PAVED.
d. THE CDS UNITS ARE INSTALLED, INCLUDING ALL INTERNAL SEPARATION SCREENS.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

EARTHWORK ANALYSIS:

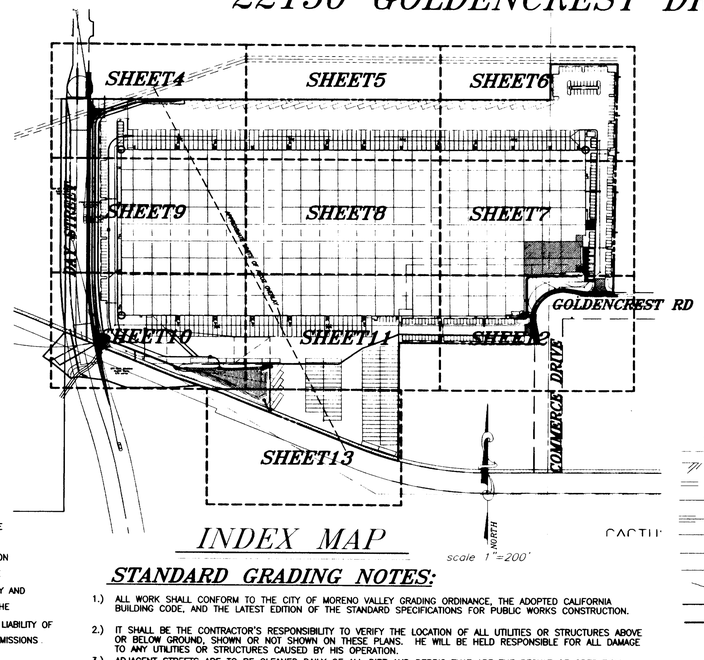
MATERIAL AVAILABLE:

OVER EXCAVATION	0	C.Y.
CALCULATED CUT	7,896	C.Y.
SITE AREA: 27.17 ACRES		
APPROXIMATE IMPORT	286	C.Y.

NOTE: EARTHWORK FIGURES SHOWN ARE APPROXIMATE FIGURES, AND ARE TO BE USED BY BUILDING DEPARTMENT ONLY. CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES AND BID A COMPLETE JOB.

MATERIAL REQUIRED:

FILL	8,024	C.Y.
SUBSIDENCE (0.00)		C.Y.
SHRINKAGE (2%)	158	C.Y.
OVEREXCAVATION SHRINKAGE		C.Y.
TOTAL FILL	8,182	C.Y.



INDEX MAP
scale 1"=200'

STANDARD GRADING NOTES:

1.) ALL WORK SHALL CONFORM TO THE CITY OF MORENO VALLEY GRADING ORDINANCE, THE ADOPTED CALIFORNIA BUILDING CODE, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

2.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES OR STRUCTURES ABOVE OR BELOW GROUND, SHOWN OR NOT SHOWN ON THESE PLANS. HE WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO ANY UTILITIES OR STRUCTURES CAUSED BY HIS OPERATION.

3.) ADJACENT STREETS ARE TO BE CLEANED DAILY OF ALL DIRT AND DEBRIS THAT ARE THE RESULT OF OPERATION.

4.) DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.

5.) HOURS OF OPERATION ARE 7 A.M. TO 6 P.M. MONDAY THROUGH FRIDAY.

6.) THE CITY ENGINEERING DEPARTMENT SHALL BE CONTACTED AT (951) 413-3120. TO SCHEDULE A PRE-GRADING MEETING 48 HOURS PRIOR TO BEGINNING OF GRADING.

7.) ALL GRADING SHALL BE COMPLETED UNDER THE SUPERVISION OF A REGISTERED SOILS ENGINEER IN CONFORMANCE WITH RECOMMENDATIONS OF THE PRELIMINARY SOILS INVESTIGATION BY C.H.J. INC. DATED 2/07/05

8.) TWO SETS OF THE FINAL SOILS REPORT SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. THE SOILS REPORT SHALL REFLECT THE FACT THAT ADEQUATE COMPACTION HAS BEEN OBTAINED NOT ONLY IN THE BUILDING PAD LOCATIONS, BUT IN THE REMAINDER OF THE SITE, INCLUDING THE SLOPES. FINAL SOILS GRADING CERTIFICATION SHALL BE SUBMITTED BY THE SOILS ENGINEER OF RECORD THAT THE FINAL GRADING CONFORMS TO BOTH CHAPTER 33 OF THE CALIFORNIA BUILDING CODE (C.B.C) AND THE APPROVED GRADING PLAN.

9.) ALL SLOPES SHALL BE A MAXIMUM OF 2:1, CUT OR FILL, UNLESS RECOMMENDED BY REGISTERED SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER.

10.) ALL PADS AND SWALES SHALL SLOPE A MINIMUM OF 1% TO STREET OR DRIVES.

11.) ALL TRENCH BACKFILLS SHALL BE TESTED AND CERTIFIED BY THE SOILS ENGINEER OF RECORD TO NOT LESS THAN 90% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557 THE TOP 1.5 FT. OF SUBGRADE BELOW THE STREET PAVEMENT STRUCTURAL SECTION SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.

12.) SEPARATE PERMITS SHALL BE REQUIRED FOR ANY IMPROVEMENT WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

13.) CUT SLOPES GREATER THAN 5 FEET IN VERTICAL HEIGHT, AND FILL SLOPES GREATER THAN 3 FEET IN VERTICAL HEIGHT SHALL BE PLANTED WITH APPROVED GROUND COVER TO PROTECT THE SLOPE FROM EROSION AND INSTABILITY IN ACCORDANCE WITH ORDINANCE NO. 568.

14.) SEPARATE PERMITS FROM THE BUILDING DEPARTMENT SHALL BE REQUIRED FOR ALL WALLS.

15.) ALL SLOPES ADJACENT TO THE PUBLIC RIGHT-OF-WAY SHALL BE SET BACK 2 FEET IF HEIGHT IS LESS THAN 10 FEET, AND 3 FEET IF HEIGHT IS GREATER THAN 10 FEET.

16.) DAMAGED OR ALTERED PUBLIC IMPROVEMENTS SHALL BE REPAIRED OR REPLACED BY THE CITY ENGINEER.

17.) AN "AS-BUILT GRADING PLAN" SHALL BE SUBMITTED AT THE COMPLETION OF WORK, AND PRIOR TO THE ISSUANCE OF THE OCCUPANCY PERMIT.

18.) CERTIFICATION BY THE R.C.E. OF RECORD THAT THE SITE CONFORMS TO THIS PLAN AS TO LINE AND GRADE SHALL BE REQUIRED PRIOR TO ISSUANCE OF BUILDING PERMIT.

19.) THE R.C.E. OF RECORD SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE R.C.E. OF RECORD SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY ENGINEER.

I HEREBY STATE THAT THIS PLAN WAS PREPARED UNDER MY SUPERVISION AND THAT IT CONFORMS TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE (C.B.C.) AS MODIFIED BY CITY OF MORENO VALLEY ORDINANCES, THE INTERIM GUIDELINES, AND THE PRELIMINARY SOIL REPORT PREPARED FOR THIS PROJECT.

HAIDOOK I. AGHAIAN — 1-24/06 DATE

R.C.E. # 43293

NOTE TO CONTRACTOR (FOR EXISTING GAS LINE):

CONTRACTOR SHALL NOTIFY SOUTHERN CALIFORNIA GAS COMPANY FOR STAND BY INSPECTOR DURING GRADING OPERATION, 48 HOURS PRIOR TO THE START OF CONSTRUCTION @ (951) 845-0712.
RE: CONSENT TO GRADE – DAY STREET PLAN FILE 35-05-2000.

LEGEND

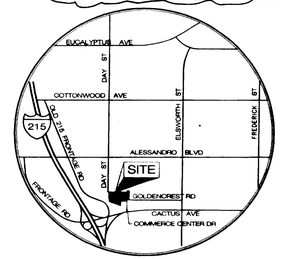
- EXIST. FIRE HYDRANT
- EXIST. WATER METER
- EXIST. WATER VALVE
- EXIST. GAS VALVE
- GUY WIRE/DEADMAN
- EXIST. POWER POLE
- EXIST. TRAFFIC SIGNAL
- EXIST. CROSSWALK SIGNAL
- STREET LIGHTING BOX
- EXIST. STREET LIGHT
- EXIST. STORMDRAIN MANHOLE
- EXIST. SEWER MANHOLE
- EXIST. VAULT
- EXIST. SIGN
- TREE
- EXIST. TRAFFIC SIGNAL BOX
- EXIST. GAS METER
- EXIST. MAIL BOX
- EXIST. TELEPHONE MANHOLE
- EXIST. GRADE ELEVATION
- PROPOSED CONTOUR
- EXIST. CABLE TV CONDUIT
- EXIST. EDGE OF A.C. PAVEMENT
- EXIST. CURB AND GUTTER
- EXIST. SANITARY SEWER
- EXIST. STORM DRAIN
- EXIST. GAS LINE
- EXIST. TELEPHONE CONDUIT
- EXIST. WATER LINE
- EXIST. CONTOUR
- NEW PIPE LINE
- PROPERTY LINE
- NEW FIRE HYDRANT
- NEW WATER METER
- NEW WATER VALVE
- NEW THRUST BLOCK
- NEW SEWER MANHOLE
- NEW SEWER CLEAN OUT
- NEW SEWER MANHOLE
- NEW CATCH BASIN
- NEW STORM DRAIN PIPE
- CONSTRUCTION NOTES BUBBLE
- DAYLIGHT LINE
- SCREEN WALL
- RETAINING WALL
- EXIST. CONTOUR
- FLOW LINE
- GRADE BREAK
- CENTER LINE

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

* PER SEPARATE PERMIT

1 — 35C CONSTRUCT VARIABLE CURB FROM 10"CF TO 12"CF.
1 — 39B CONSTRUCT CATCH BASIN PER RIVERSIDE COUNTY FLOOD CONTROL STD. DWG. NO. CB110.



VICINITY MAP
N.T.S.

UTILITY COMPANIES	EMERGENCY NUMBERS
Adelphia – Riverside	(951) 975-3402
City of Moreno Valley	(951) 413-3400
Eastern Municipal Water District	(951) 928-3777
March Joint Powers Authority	(951) 656-7000
Southern California Edison – Moreno Valley	(951) 928-8323
Southern California Gas Co. – Moreno Valley	(951) 928-2801
Verizon – Moreno Valley	(951) 929-9412
Western Municipal Water District	(951) 780-9764 x21

INDEX

SEWER CONSTRUCTION NOTES:

40. CONSTRUCT 6" PVC SDR-35 SEWER LATERAL
41. CONSTRUCT 6" SEWER CLEAN-OUT

WATER CONSTRUCTION NOTES:

50. INSTALL 2" COPPER BRASS PIPE.
51. INSTALL 2" METER SERVICE CONNECTION PER EMWD STD. DWG. NO. B-344.
52. INSTALL 2" BACKFLOW PREVENTION ASSEMBLY PER EMWD STD. DWG. NO. B-597.
53. INSTALL 2 1/2" PVC PIPE SCH.80.
54. SAWCUT EXISTING AC PAVEMENT AND BACKFILL PER CITY STD. 602A-602C OR AS REQUIRED BY THE CITY ENGINEER.
55. INSTALL 1 1/2" BACKFLOW PREVENTOR ASSEMBLY PER EMWD STD. DWG. NO. B-597
56. INSTALL 1 1/2" METER SERVICE CONNECTION PER EMWD STD. DWG. NO. B-344.
57. INSTALL 1 1/2" COPPER BRASS PIPE.
58. INSTALL 1 1/2" PVC PIPE SCH.80.
59. INSTALL FIRE HYDRANT PER EMWD STD. DWG. NO. B-356.
59A. INSTALL 10" DOUBLE DETECTOR CHECK VALVE.
59B. INSTALL 10" PVC WATER LINE.
59C. ABONDONED EXISTING WATER METER AT MAIN.

SOILS AND GEOLOGIST CERTIFICATION:

THIS GRADING PLAN HAS BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AS OUTLINED IN THE FOLLOWING SOILS AND GEOLOGICAL REPORT FOR THIS PROJECT.

GEOTECHNICAL REPORT FOR DISTRIBUTION CENTER/WAREHOUSE DEVELOPMENT

ENTITLED: GEOTECHNICAL INVESTIGATION REPORT
DISTRIBUTION CENTER/WAREHOUSE
NORTHWEST OF COMMERCE CENTER DRIVE
AND GOLDEN CREST DRIVE
MORENO VALLEY, CALIFORNIA

DATE: FEBRUARY 7, 2005
FIRM NAME C.H.J. INCORPORATED
BY: — 1-24-06
GEOTECHNICAL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — ELLEN D. EVANS — No. 2080 Exp. 3-31-2007 — GEOTECHNICAL — STATE OF CALIFORNIA

1 — REVISION NO. 1 — 04/25/06
REDUCED RETAINING WALL AT NORTH PROPERTY LINE. REVISED RET. WALL PROFILE TO MATCH NATURAL GROUND AND W.S.E. ON CABLE COOK STORM DRAIN PLANS. RELOCATED AND MODIFIED CATCH BASIN PER 'GABEL, COOK AND ASSOCIATES" STORM DRAIN PLAN. ADDED VARIABLE CURB FROM 10" CF TO 12" CF AND CONSTRUCTION NOTE 39C. PROVIDED 6' WIDE OPENINGS THROUGH CURB AND RETAINING WALL FOR SECONDARY OVER FLOW. ADD CONSTRUCTION NOTE 39B FOR CATCH BASIN.

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06"

Last Update: 1/19/06
N:\2002\2552GP01.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE., 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'52" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

	INITIAL	DATE
DFFICE		
LAND DEVELOPMENT	KC	1/26/06
ENTERPRISE SEVRICES		
PLANNING	KD	1/24/06
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION	CO.	1/27/06

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
1	5/19/06	H.A.	SEE REVISION NO.1, HEREON, SHT. 4	KC	TB	5/19/06
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/24/06
APPROVED for PREM KUMAR DATE 2/6/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
LS 5361 3 EXP. 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER — HAIDOOK I. AGHAIAN — R.C.E. NO. 43293 Exp. 3-31-06 — CIVIL — STATE OF CALIFORNIA

CITY OF MORENO VALLEY
TITLE SHEET
PRECISE GRADING PLAN
PA05-0042

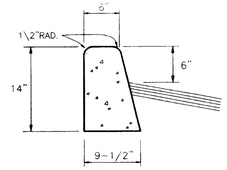
ACCT. NO.
SHEET 1 NO. 18
CITY I. D. NO. 2564

MAY 31 2006

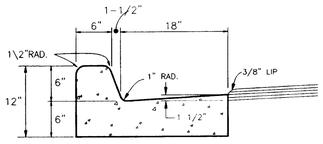
CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 116C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
18. * CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
20. * WALL PER ARCHITECTURAL PLANS
21. * FENCE PER ARCHITECTURAL PLANS
22. * CONCRETE RISERS PER ARCHITECTURAL PLAN
23. * CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
28. * CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
30. * CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

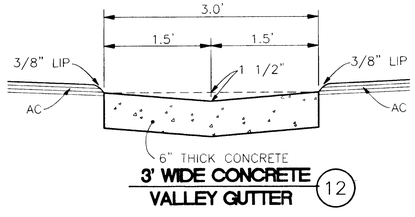
* PER SEPARATE PERMIT



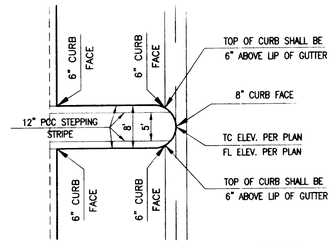
6" CONCRETE CURB ONLY DETAIL: (10)
N.T.S. CITY STD. NO. 202



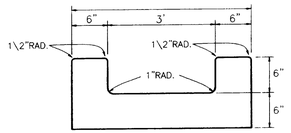
6" CURB AND GUTTER DETAIL: (11)
N.T.S. CITY STD. NO. 200 N.T.S.



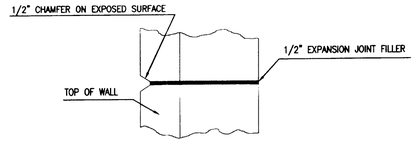
3' WIDE CONCRETE VALLEY GUTTER (12)



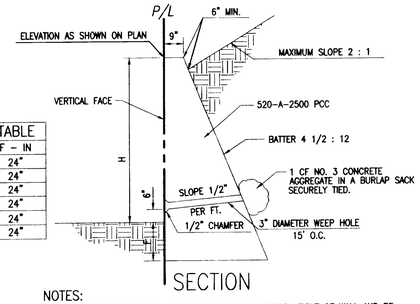
TYPICAL PLANTER ISLAND DETAIL (25)
N.T.S.



36" CONCRETE U CHANNEL DETAIL: (29)
N.T.S.



JOINT DETAIL



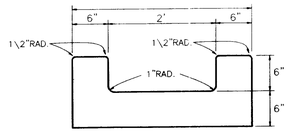
DIMENSION TABLE	
H - FT	F - IN
1.0	24"
2.0	24"
3.0	24"
3.5	24"
4.0	24"
4.5	24"

SECTION

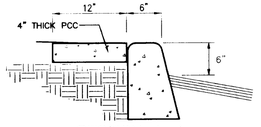
NOTES:
1. EXPANSION JOINTS SHALL EXTEND THROUGH THE ENTIRE HEIGHT OF WALL AND BE SPACED AT A MAXIMUM DISTANCE OF 40' OR AS DIRECTED BY THE ENGINEER.
2. F=24" MINIMUM WHEN RETAINING WALL IS USED AS A CULVERT END WALL.

GRAVITY WALL DETAIL: (31)
N.T.S.

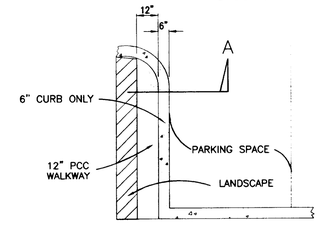
*NOTE: EXPOSED CORNERS OF PCC ROUNDED WITH A 1/2" RADIUS



24" CONCRETE U CHANNEL DETAIL: (32)
N.T.S.

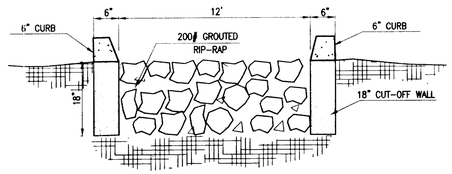


SECTION A-A
PER STD. 607

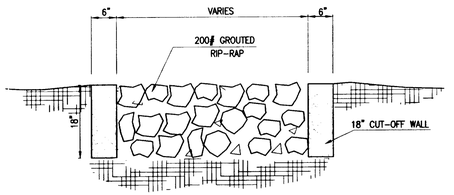


PLAN

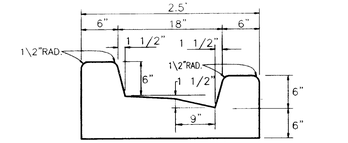
CONCRETE STEPPING STRIP (34)
N.T.S.



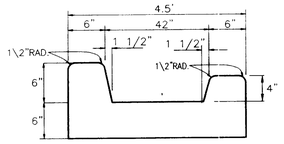
RIP-RAP DETAIL 'B' (35)
N.T.S.



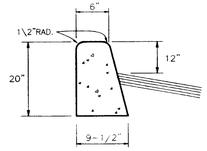
RIP-RAP DETAIL 'A' (35)
N.T.S.



18" CONCRETE CHANNEL DETAIL: (37)
N.T.S.

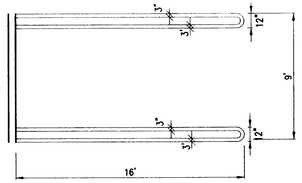


42" IRREGULAR CONCRETE CHANNEL DETAIL N.T.S. (39)



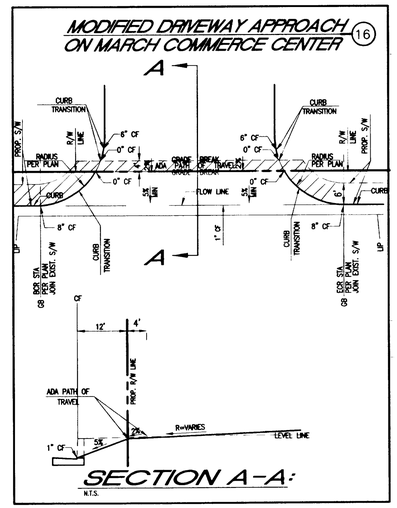
12" CONCRETE CURB ONLY DETAIL: (39A)
N.T.S.

PARKING SPACE STRIPING REQUIREMENTS



* ENDS OF PARKING STALL STRIPING SHALL BE CURVED OR SQUARE OFF.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG



BENCH MARK	BASIS OF BEARING	REVIEW BY CITY STAFF	INITIAL	DATE
RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST. 40.89 FT. W/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDWELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)	THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.	OFFICE		
		LAND DEVELOPMENT	V&G	11/30/06
		ENTERPRISE SEVRICES		
		PLANNING		
		TRANSPORTATION		
		CAPITAL PROJECT		
		PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 11/20/06
APPROVED for M. Kumar 12/6/06
PREM KUMAR DATE
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No 53613 Exp 6-30-07

DRAWN BY
DESIGN BY
REC. BY:
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER HAIDOOK I. AGHAIAN R.C.E. NO. 43293 Exp. 3-31-06 CIVIL STATE OF CALIFORNIA

CITY OF MORENO VALLEY

PRECISE GRADING PLAN

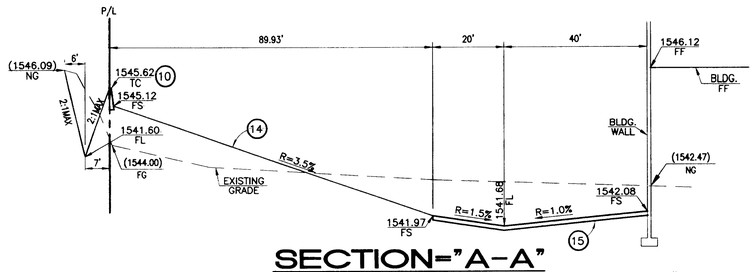
DETAILS

ACCT. NO.

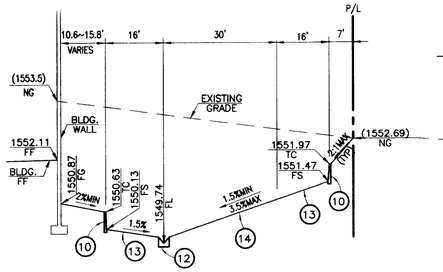
SHEET 2 NO. 18

CITY I. D. NO. 2564

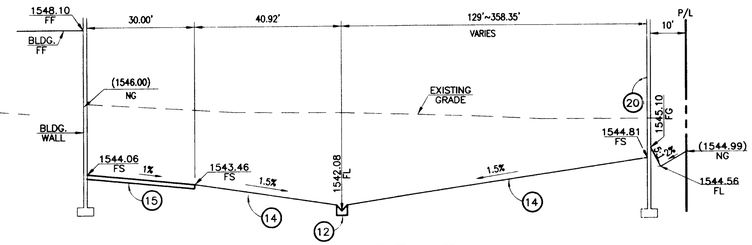
PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06" Last Update: 1/19/06 N:\2552\2552GP02.dwg



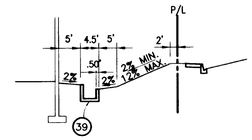
SECTION="A-A"
N.T.S.



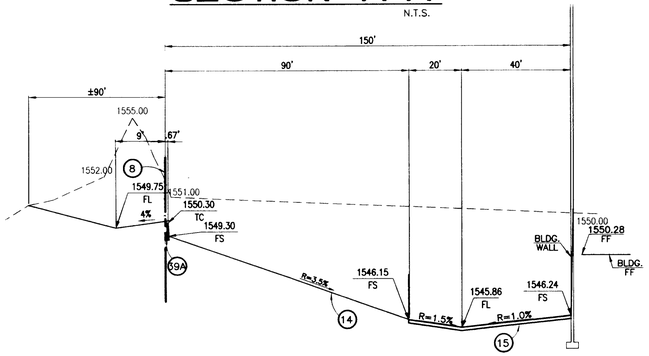
SECTION="D-D"
N.T.S.



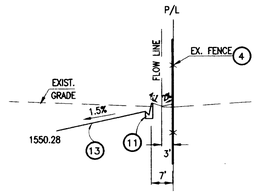
SECTION="G-G"
N.T.S.



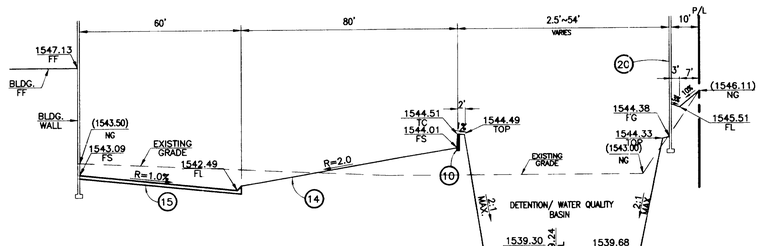
SECTION "K-K"
N.T.S.



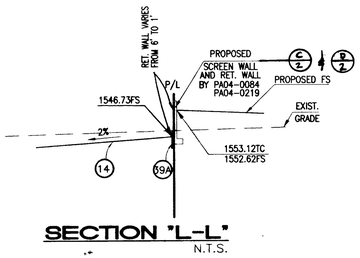
SECTION="B-B"
N.T.S.



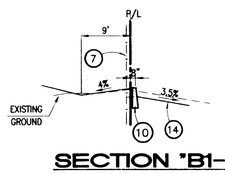
SECTION "D1-D1"
N.T.S.



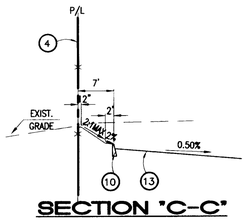
SECTION="H-H"
N.T.S.



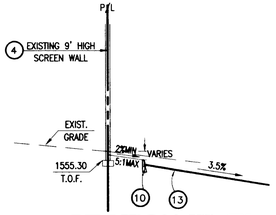
SECTION "L-L"
N.T.S.



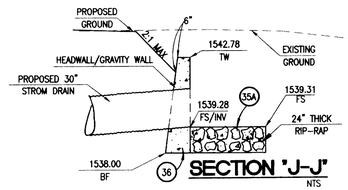
SECTION "B1-B1"
N.T.S.



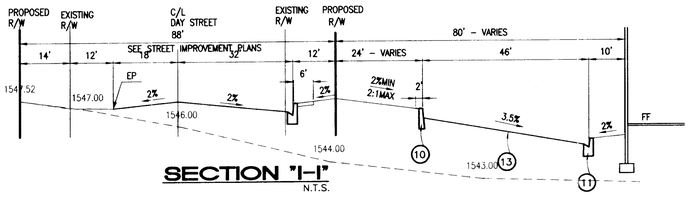
SECTION "C-C"
N.T.S.



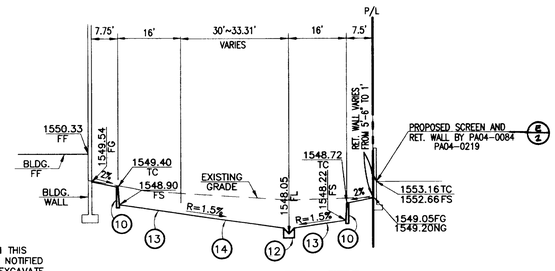
SECTION "E-E"
N.T.S.



SECTION "J-J"
NTS



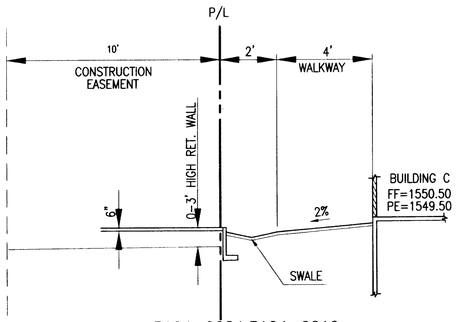
SECTION "I-I"
N.T.S.



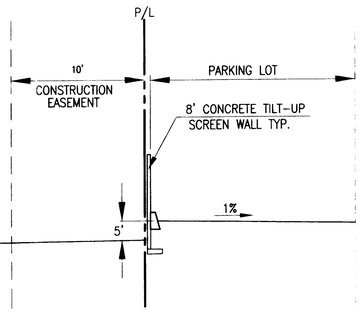
SECTION="F-F"
N.T.S.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

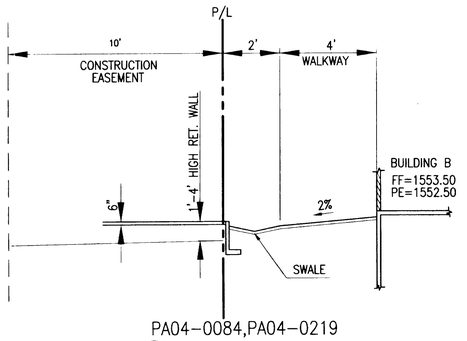
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG



PA04-0084,PA04-0219
C/2 SECTION (SECTION L-L)
N.T.S.



PA04-0084,PA04-0219
D/2 SECTION (SECTION L-L)
N.T.S.



PA04-0084,PA04-0219
E/2 SECTION (SECTION F-F)
N.T.S.

PA05-0042 *WDID: 833C335284* "CONSTRUCTION SET 01-16-06" Last Update:01/19/06 N:\2552\2552GP03.dwg

BENCH MARK	BASIS OF BEARING	REVIEW BY CITY STAFF		
RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #21336; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)	THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.	OFFICE	INITIAL	DATE
		LAND DEVELOPMENT	VGC	1/20/06
		ENTERPRISE SEVRICES		
		PLANNING		
		TRANSPORTATION		
		CAPITAL PROJECT		
		PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/24/06
APPROVED
PREM KUMAR DATE 1/26/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53615 Exp 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY
REC. BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

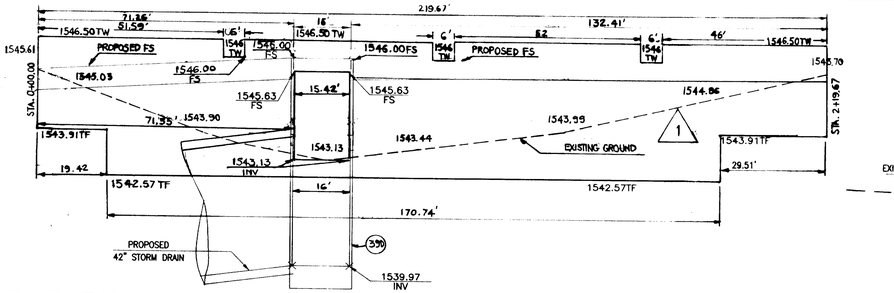
REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY
PRECISE GRADING PLAN
SECTIONS

ACCT. NO.

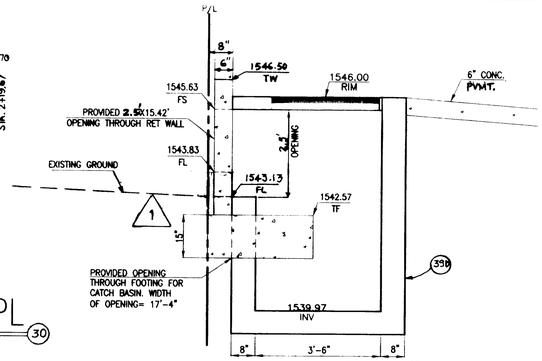
SHEET 3 NO. 18

CITY I. D. NO. 2564



PROPOSED RETAINING WALL AND HEAD WALL PROFILE @ NORTH PL (30)

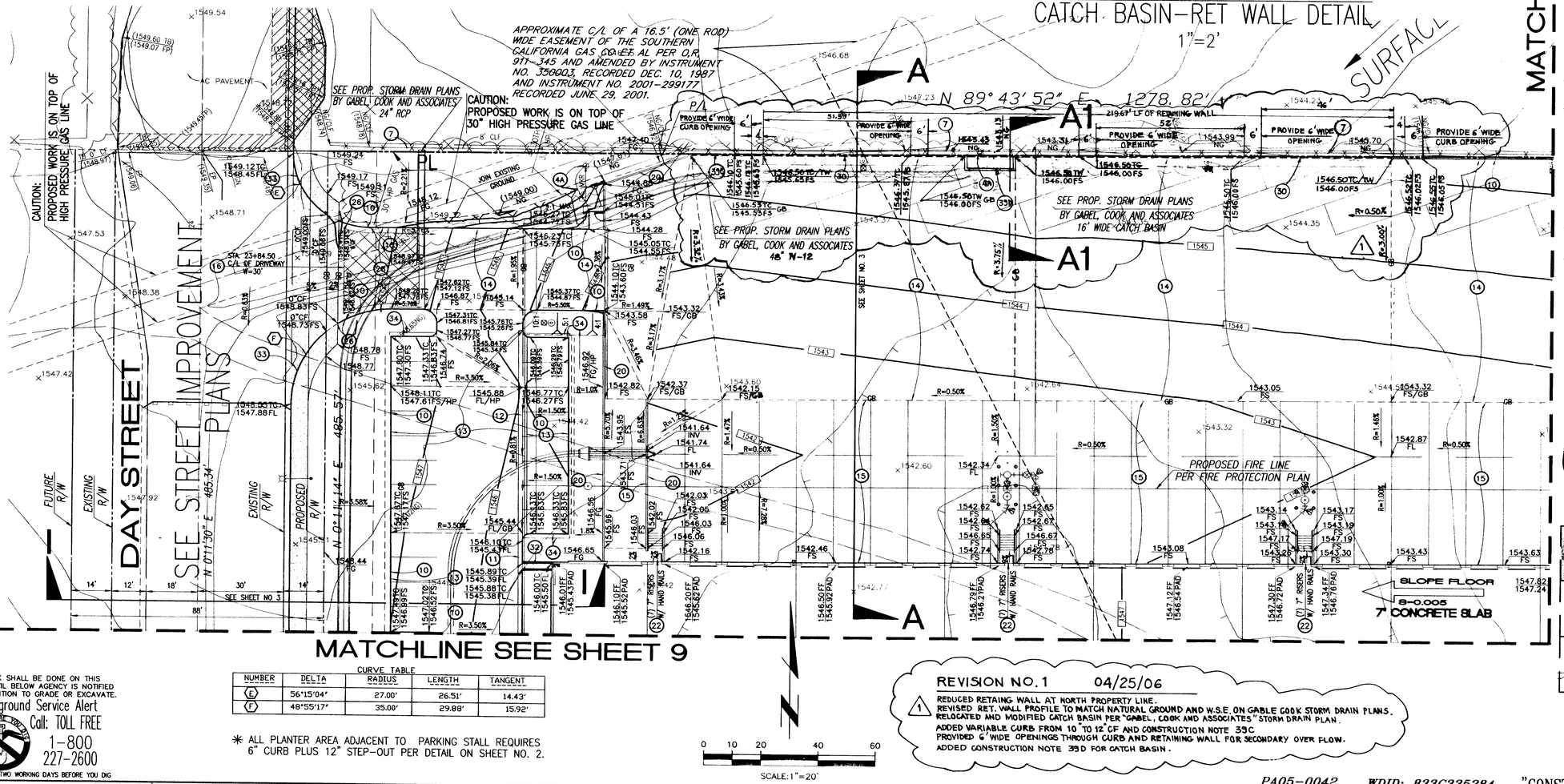
LOOKING NORTH



SECTION "A-A"

CATCH BASIN-RET WALL DETAIL

1"=2'

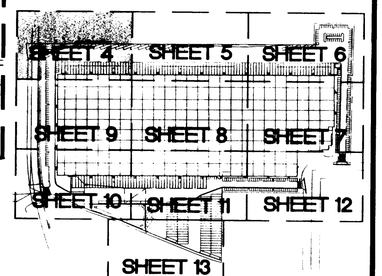


MATCHLINE SEE SHEET 9

MATCHLINE SEE SHEET 5

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.
39C. CONSTRUCT VARIABLE CURB FROM 10"CF TO 12"CF.
39D. CONSTRUCT CATCH BASIN PER RIVERSIDE COUNTY FLOOD CONTROL STD. DWG. NO. CB110. (1)
* PER SEPARATE PERMIT



INDEX MAP

N.T.S.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

CURVE TABLE

NUMBER	DELTA	RADIUS	LENGTH	TANGENT
(E)	56°15'04"	27.00'	26.51'	14.43'
(F)	48°55'17"	35.00'	29.88'	15.92'

* ALL PLANTER AREA ADJACENT TO PARKING STALL REQUIRES 6" CURB PLUS 12" STEP-OUT PER DETAIL ON SHEET NO. 2.

0 10 20 40 60

SCALE: 1"=20'

REVISION NO.1 04/25/06

(1) REDUCED RETAING WALL AT NORTH PROPERTY LINE.
REVISED RET. WALL PROFILE TO MATCH NATURAL GROUND AND W.S.E. ON GABLE COOK STORM DRAIN PLANS.
RELOCATED AND MODIFIED CATCH BASIN PER "GABEL, COOK AND ASSOCIATES" STORM DRAIN PLAN.
ADDED VARIABLE CURB FROM 10"TO 12"CF AND CONSTRUCTION NOTE 39C.
PROVIDED 6'WIDE OPENINGS THROUGH CURB AND RETAINING WALL FOR SECONDARY OVER FLOW.
ADDED CONSTRUCTION NOTE 39D FOR CATCH BASIN.

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06"

Last Update: 01/19/06
N:\2552\2552GP04.dwg

BENCH MARK	BASIS OF BEARING
RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.35 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160. A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)	THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

	INITIAL	DATE
OFFICE		
LAND DEVELOPMENT	VBG	1/20/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
1	5-9-06	H.A.	SEE REVISION NO.1 HEREON, SHT. 4			
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/20/06
APPROVED
PREM KUMAR DATE 2/6/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 Exp 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY
REC. BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-08
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

ACCT. NO.

SHEET 4 NO. 18

CITY I. D. NO. 2564

MAY 31 2006

MATCHLINE SEE SHEET 4

MATCHLINE SEE SHEET 6

MATCHLINE SEE SHEET 8

LIMITS OF GRADING

PROPOSED FIRE LINE
PER FIRE PROTECTION PLAN

SLOPE FLOOR
S=0.005
7" CONCRETE SLAB

N 89° 43' 52" E 1278.82'

B1 B1

B B

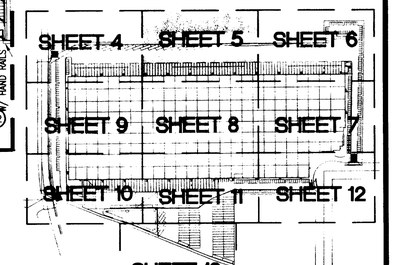
SEE SHEET NO. 3

SEE SHEET NO. 3

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE "V" GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
59A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
59B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

* PER SEPARATE PERMIT



INDEX MAP

N.T.S.

0 10 20 40 60

SCALE:1"=20'

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06"

Last Update: 01/19/06
N:\2552\2552GP05.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE ID:13130; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDWELL MONUMENT.
ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

OFFICE	INITIAL	DATE
LAND DEVELOPMENT	V&G	1/30/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/20/06
APPROVED
PREM KUMAR DATE 2/6/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 57613 Exp. 6-30-07

DRAWN BY
DESIGN BY
REC. BY:
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

ACCT. NO.

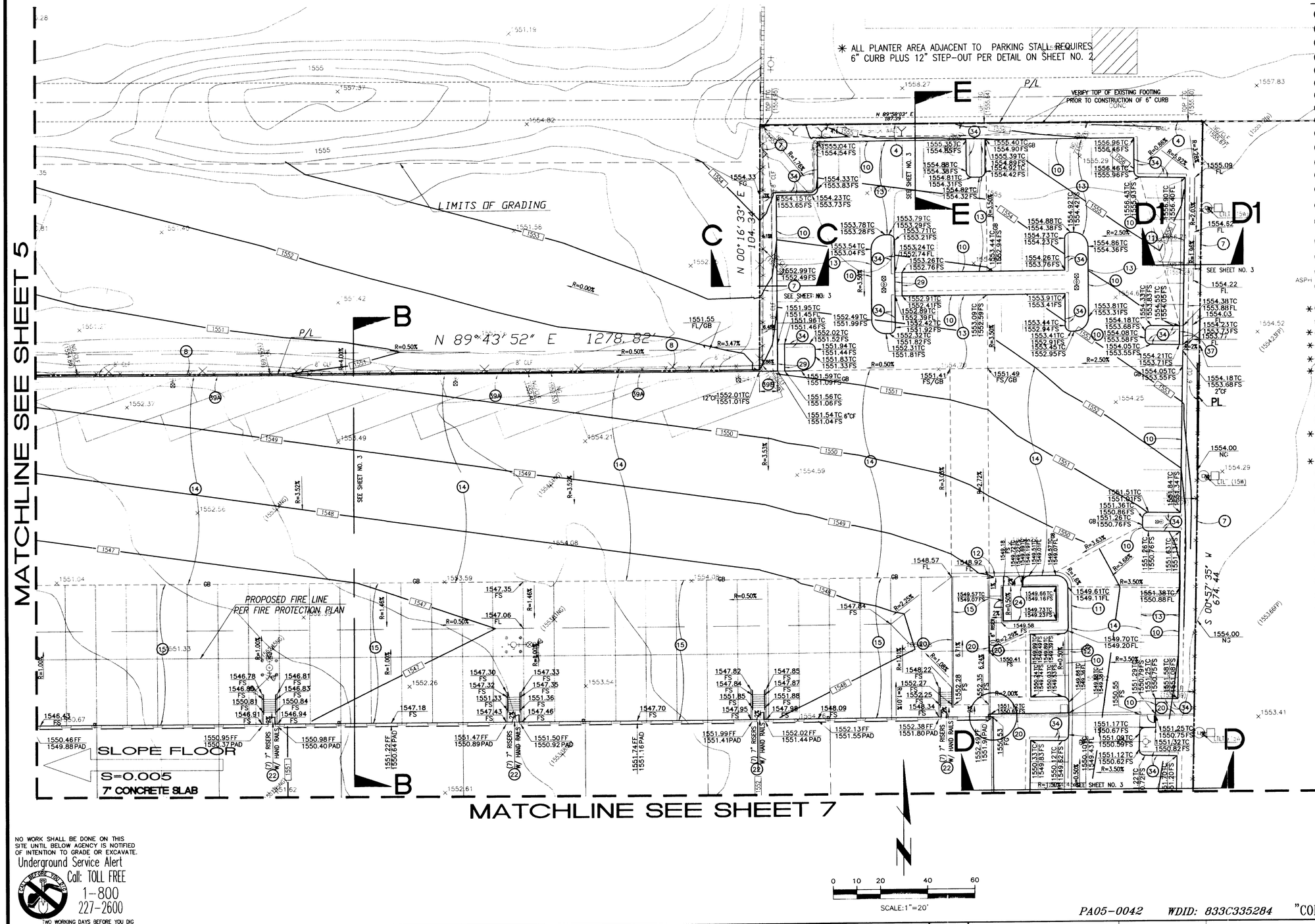
SHEET 5 NO. 18

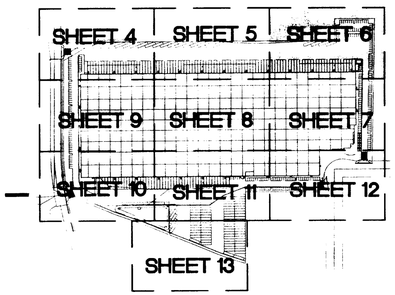
CITY I. D. NO. 2564

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

* PER SEPARATE PERMIT





INDEX MAP
N.T.S.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06"

Last Update: 01/19/06
N:\2552\2552GP06.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE., 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON CORP. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

	INITIAL	DATE
OFFICE		
LAND DEVELOPMENT	VGO	1/20/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/20/06
APPROVED
PREM KUMAR DATE 2/2/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 Exp. 6-30-07

DRAWN BY
DESIGN BY
REC. BY
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

ACCT. NO.

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

SHEET 6 NO. 18

CITY I. D. NO. 2564

MATCHLINE SEE SHEET 6

MATCHLINE SEE SHEET 8

SLOPE FLOOR

S=0.005

7" CONCRETE SLAB

PROPOSED SEWER LINE PER PLUMBING PLANS

PROPOSED FIRE LINE PER FIRE PROTECTION PLAN

SEE SHEET NO. 3

S 00° 57' 35" W 674.44

MATCHLINE SEE SHEET 12

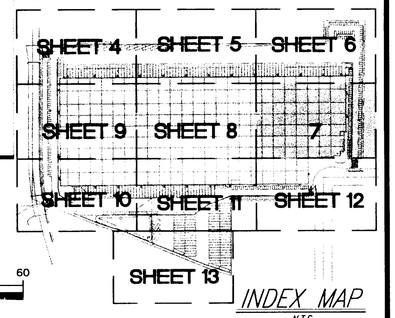
CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

* PER SEPARATE PERMIT

* ALL PLANTER AREA ADJACENT TO PARKING STALL REQUIRES 6" CURB PLUS 12" STEP-OUT PER DETAIL ON SHEET NO. 2.

SCALE: 1" = 20'



INDEX MAP

N.T.S.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 833C335284

Last Update: 1/24/06
N:\2552\25552GP07.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE., 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #151160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY; R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

OFFICE	INITIAL	DATE
LAND DEVELOPMENT	VBG	1/30/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.D.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF

HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 4/25/06

APPROVED: REC. BY:

PREM KUMAR DATE 5/2/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 EXP: 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

ACCT. NO.

SHEET 7 NO. 18

CITY I. D. NO. 2564

MATCHLINE SEE SHEET 5

MATCHLINE SEE SHEET 9

MATCHLINE SEE SHEET 7

SLOPE FLOOR

S=0.005

7" CONCRETE SLAB

PROPOSED SEWER LINE PER PLUMBING PLANS

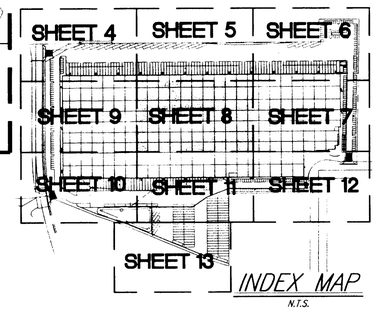
S=0.01%

MATCHLINE SEE SHEET 11

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

* PER SEPARATE PERMIT



INDEX MAP

N.T.S.

0 10 20 40 60

SCALE:1"=20'

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06 "

Last Update: 1/19/06
N:\2552\2552GP08.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.88 FT. N/E OF MAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A MAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDWELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

	OFFICE	INITIAL	DATE
	LAND DEVELOPMENT	VBG	1/20/06
	ENTERPRISE SEVRICES		
	PLANNING		
	TRANSPORTATION		
	CAPITAL PROJECT		
	PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.D.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/20/06

APPROVED
PREM KUMAR DATE 2/2/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
N.O. 53013 Exp: 6-30-07

REC. BY:

DRAWN BY
DESIGN BY
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

ACCT. NO.

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

SHEET 8 NO. 18

CITY I. D. NO. 2564

MATCHLINE SEE SHEET 4

DAY STREET — SEE STREET IMPROVEMENT PLANS

FUTURE R/W | EXISTING R/W | PROPOSED R/W

N 0°11'30" E 485.34'

N 0°11'44" E 483.57'

SEE PROP. STORM DRAIN PLANS BY GABEL, COOK AND ASSOCIATES 42" RCP

PROPOSED STORM DRAIN — SEE SHEET 15

PROPOSED FIRE LINE PER FIRE PROTECTION PLAN

SEE SHEET NO. 3

SLOPE FLOOR

S=0.005

7" CONCRETE SLAB

(1) 6 3/8" RISER

(2) 6 13/16" RISERS W/ HANDRAILS

(3) 6" RISERS W/ HANDRAILS

MATCHLINE SEE SHEET 8

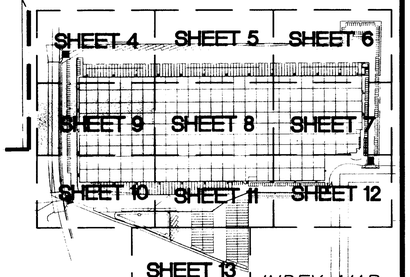
MATCHLINE SEE SHEET 10

✳ ALL PLANTER AREA ADJACENT TO PARKING STALL REQUIRES 6" CURB PLUS 12" STEP-OUT PER DETAIL ON SHEET NO. 2.

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
✳18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
✳20. WALL PER ARCHITECTURAL PLANS
✳21. FENCE PER ARCHITECTURAL PLANS
✳22. CONCRETE RISERS PER ARCHITECTURAL PLAN
✳23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
✳28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
✳30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

✳ PER SEPARATE PERMIT



INDEX MAP
N.T.S.

0 10 20 40 60
SCALE: 1"=20'

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06"

Last Update: 01/19/06
N:\2552\2552GP09.dwg

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

OFFICE	INITIAL	DATE
LAND DEVELOPMENT	VBG	1/20/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.G.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 11/09/06
APPROVED REC. BY:
PREM KUMAR DATE
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 Exp 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

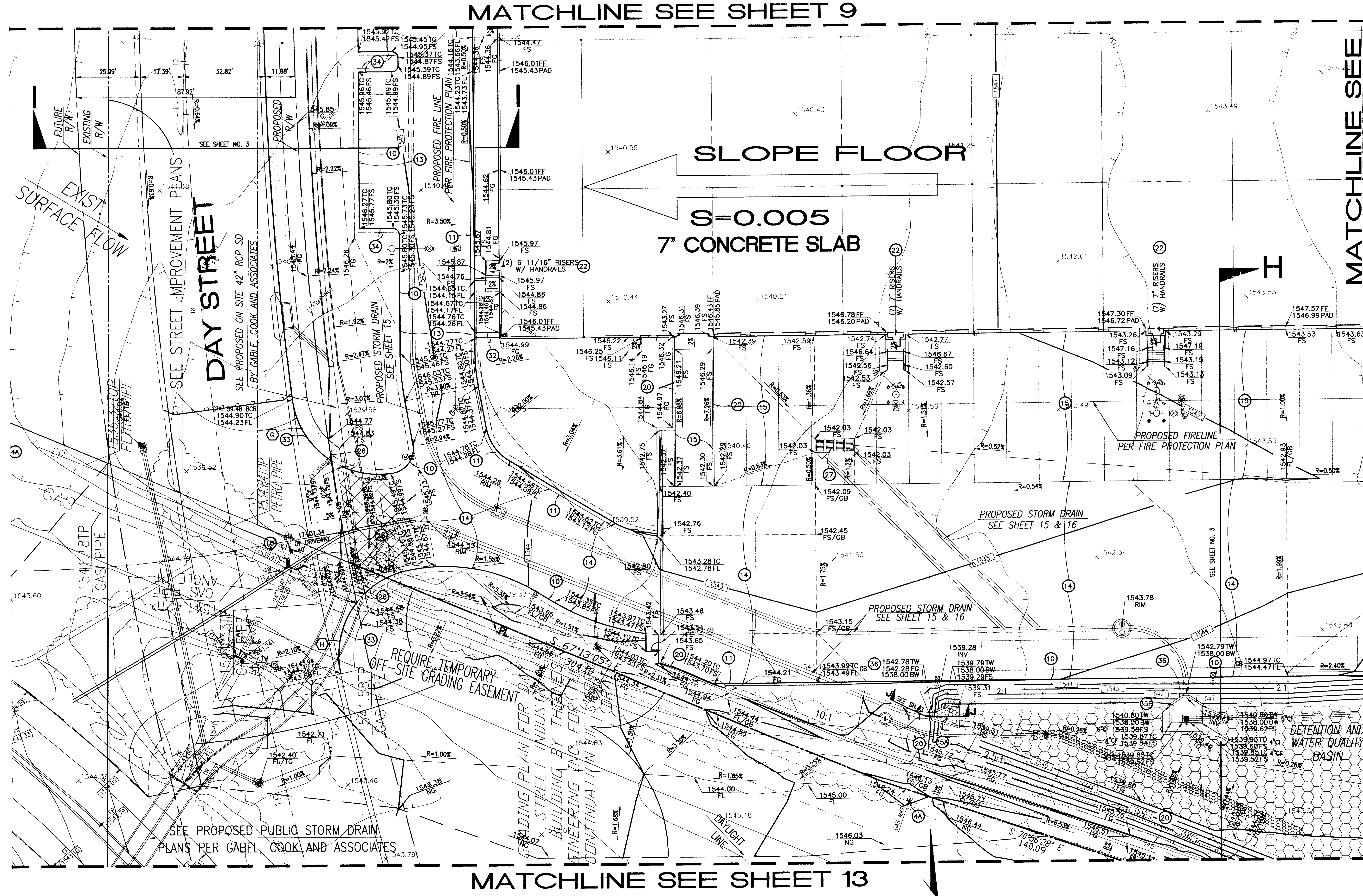
CITY OF MORENO VALLEY

PRECISE GRADING PLAN

ACCT. NO.

SHEET 9 NO. 18

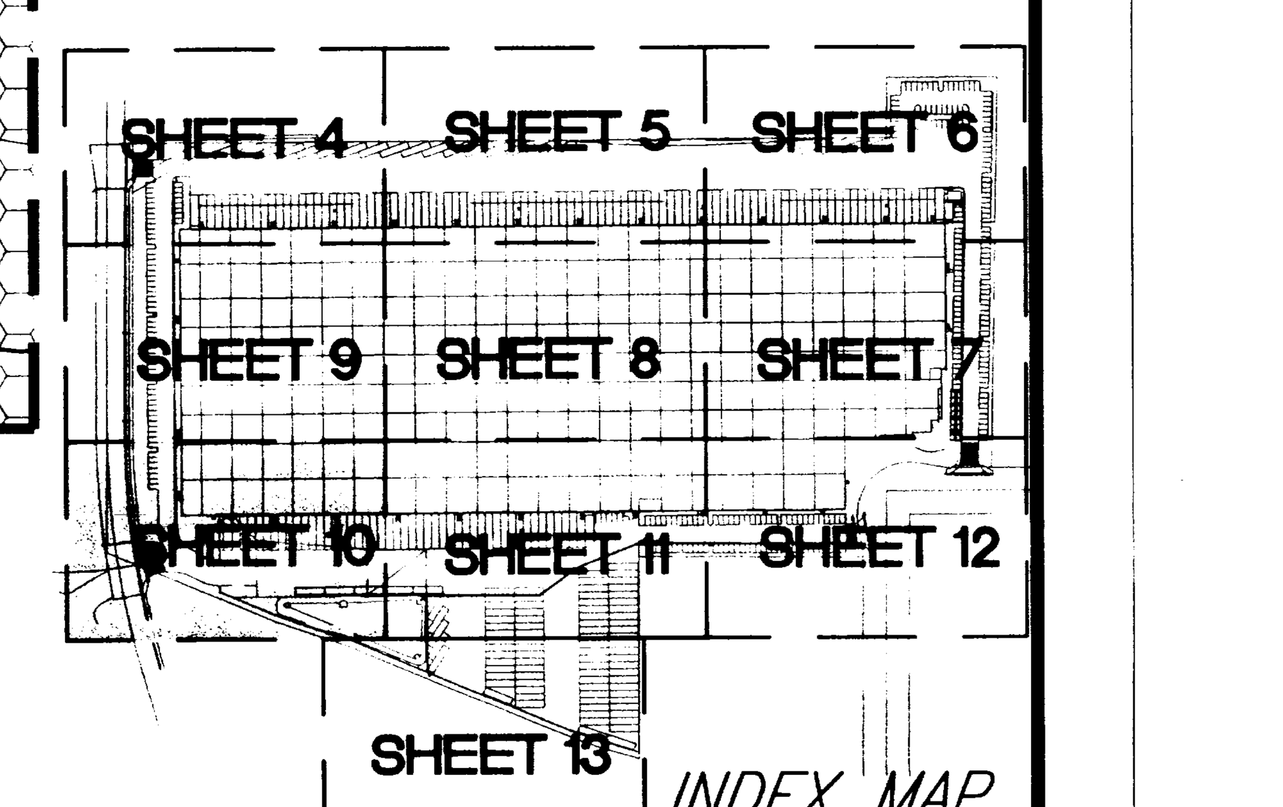
CITY I. D. NO. 2564



CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

* PER SEPARATE PERMIT



INDEX MAP
N.T.S.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

CURVE TABLE

NUMBER	DELTA	RADIUS	LENGTH	TANGENT
G	48°22'39"	35.00'	29.55'	15.72'
H	49°28'56"	35.00'	30.23'	16.13'

* ALL PLANTER AREA ADJACENT TO PARKING STALL REQUIRES 6" CURB PLUS 12" STEP-OUT PER DETAIL ON SHEET NO. 2.

SCALE: 1"=20'

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06 "

Last Update: 01/19/06
N:\2552\2552GP10.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDWELL MONUMENT.
ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

OFFICE	INITIAL	DATE
LAND DEVELOPMENT	VGG	1/30/06
ENTERPRISE SEVRICES	PH (LW)	1/31/06
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/12/06
APPROVED for 2/2/06
PREM KUMAR DATE
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 Exp 6-30-07
REC. BY:

DRAWN BY
DESIGN BY
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

ACCT. NO.

SHEET 10 NO. 18

CITY I. D. NO. 2564

MATCHLINE SEE SHEET 8

MATCHLINE SEE SHEET 10

SLOPE FLOOR

S=0.005

7" CONCRETE SLAB

PROPOSED FIRELINE PER FIRE PROTECTION PLAN

FUTURE SCREEN WALL AND RETAINING WALL BY PA04-0084/PA04-0219

N 0°19'07" E 346.98'

FUTURE SCREEN WALL AND RETAINING WALL BY PA04-0084/PA04-0219

MATCHLINE SEE SHEET 12

MATCHLINE SEE SHEET 13

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
59A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
59B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.
* PER SEPARATE PERMIT

* ALL PLANTER AREA ADJACENT TO PARKING STALL REQUIRES 6" CURB PLUS 12" STEP-OUT PER DETAIL ON SHEET NO. 2.

SHEET 4 | SHEET 5 | SHEET 6
SHEET 9 | SHEET 8 | SHEET 7
SHEET 10 | SHEET 11 | SHEET 12
SHEET 13

INDEX MAP
N.T.S.

0 10 20 40 60
SCALE:1"=20'

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06 "

Last Update: 01/19/06
N:\2552\2552GP11.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160. A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

	INITIAL	DATE
OFFICE		
LAND DEVELOPMENT	VBG	1/30/06
ENTERPRISE SEVRICES	PA (2)	1/31/06
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.D.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/19/06

APPROVED
PREM KUMAR DATE 2/2/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No 52463 Exp 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY
REC. BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

ACCT. NO.

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

SHEET 11 NO. 18

CITY I. D. NO. 2564

MATCHLINE SEE SHEET 7

MATCHLINE SEE SHEET 11

SLOPE FLOOR

S=0.005
7" CONCRETE SLAB

PROPOSED FIRELINE
PER FIRE PROTECTION PLANS

FUTURE SCREEN WALL AND RETAINING WALL
BY A04-0084/PA04-0219

N 89°43'27" W 380.00'

PROPOSED 6" SEWER LAT.

PROPOSED SIDEWALK
PER CITY STANDARD
SEE SHEET 3 OF CITY DWG. NO. 2562.
STREET IMPROVEMENT PLANS

SEE SHEET NO. 3

GOLDENCREST

COMMERCE CENTER DR.

ALL PLANTER AREA ADJACENT TO PARKING STALL REQUIRES 6" CURB PLUS 12" STEP-OUT PER DETAIL ON SHEET NO. 2.

CURVE TABLE

NUMBER	DELTA	RADIUS	LENGTH	TANGENT
A	46°54'05"	35.00'	28.65'	15.18'
B	49°38'01"	35.00'	30.32'	16.18'
C	40°03'31"	35.00'	24.47'	12.76'
D	61°29'59"	25.00'	26.83'	14.87'

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
* 28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

* PER SEPARATE PERMIT

SHEET 4 | SHEET 5 | SHEET 6
SHEET 9 | SHEET 8 | SHEET 7
SHEET 10 | SHEET 11 | SHEET 12
SHEET 13 INDEX MAP N.T.S.

0 10 20 40 60
SCALE:1"=20'

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK
RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF FERRIS BLVD. & IRIS AVE., 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT.
ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING
THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

OFFICE	INITIAL	DATE
LAND DEVELOPMENT	VBG	1/24/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.D.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/6/06
APPROVED: DATE 2/2/06
PREM KUMAR
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 Exp. 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY
REC. BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06 "
Last Update: 01/19/06
N:\2552\2552GP12.dwg

CITY OF MORENO VALLEY

ACCT. NO.

PRECISE GRADING PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

SHEET 12 NO. 18

CITY I. D. NO. 2564

MATCHLINE SEE SHEET 10 AND 11

CAUTION:
THERE IS THE POSSIBILITY OF GAS AND / OR PETROLEUM RIPES ALONG THE NORTHERLY AND SOUTHWESTERLY BOUNDARIES OF THE PROPERTY SHOWN ON THIS SURVEY. THE APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED PRIOR TO CONSTRUCTION.

CAUTION:
PROPOSED WORK IS IN CLOSE PROXIMITY OF HIGH PRESSURE GAS LINES.

SEE SHEET 16 STORM DRAIN PLAN

PROPOSED CATCH BASIN

EXIST. DRAINAGE SWALE

FUTURE SCREEN WALL AND RETAINING WALL BY PA04-0084/PA04-0219

SEE SHEET NO. 3

S 67°21'02" E 399.37

N 0°19'07" E 346.98'

PER PA04-0084/PA04-0219

CONSTRUCTION NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT AND REPLACE WITH FULL DEPTH AC PAVEMENT OR AS REQUIRED BY THE CITY ENGINEER.
2. SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
3. SAWCUT AND REMOVE EXISTING SIDEWALK.
4. PROTECT IN PLACE EXISTING 9' BRICK WALL.
4A. PROTECT IN PLACE EXISTING GAS MARKER.
4B. PROTECT IN PLACE EXISTING GAS VALVE.
5. RELOCATE EXISTING STREET LIGHT.
6. RELOCATE EXISTING WATER METER.
6A. PROTECT IN PLACE EXISTING WATER METER.
7. PROTECT IN PLACE EXISTING CHAIN LINK FENCE.
8. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE.
9. REMOVE EXISTING WATER SERVICE.
10. CONSTRUCT 6" CURB PER DETAIL ON SHEET 2, CITY STD. NO. 202 (TYP).
11. CONSTRUCT 6" CURB AND GUTTER PER DETAIL ON SHEET 2, CITY STD. NO. 200 (TYP)
12. CONSTRUCT 3' WIDE CONCRETE 'V' GUTTER PER DETAIL ON SHEET 2
13. CONSTRUCT 0.25' ASPHALT CONCRETE OVER 0.33' AGGREGATE BASE (LIGHT VEHICULAR TRAFFIC); TI=5.0 (VERIFY WITH SOILS REPORT)
14. CONSTRUCT 0.35' ASPHALT CONCRETE OVER 0.40' AGGREGATE BASE (HEAVY TRUCK AREAS); TI=7.0 (VERIFY WITH SOILS REPORT)
15. CONSTRUCT 6.5" PORTLAND CEMENT CONCRETE OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%. (VERIFY WITH SOILS REPORT)
16. CONSTRUCT DRIVEWAY APPROACH PER DETAIL ON SHEET 2 OR PER CITY STD. PLAN NO. 118C.
17. CONSTRUCT 7" CONCRETE OVER 2" SAND WITH VISQUEEN OVER SUBGRADE SOILS COMPACTED TO AT LEAST 95%(VERIFY WITH SOILS REPORT) PER ARCHITECTURAL PLANS.
* 18. CONSTRUCT GATE PER ARCHITECTURAL PLANS.
19. PROTECT IN PLACE EXISTING 1" AIR VACUUM AND AIR RELEASE.
* 20. WALL PER ARCHITECTURAL PLANS
* 21. FENCE PER ARCHITECTURAL PLANS
* 22. CONCRETE RISERS PER ARCHITECTURAL PLAN
* 23. CONCRETE WALK PER LANDSCAPE PLAN
24. TRASH ENCLOSURE PER CITY STD. NO. 627A-627E.
25. CONSTRUCT PLANTER FINGER ISLAND PER DETAIL ON SHEET NO. 2
26. CONSTRUCT 3' TRANSITION FROM 0"CF TO 6"CF
27. PROPOSED GRATE INLET PER STORM DRAIN PLAN
28. CONSTRUCT 6" THICK RETARDANT FINISH CONCRETE NATURAL COLOR WITH 4X4 GRID PATTERN @ 45° ANGLE (SEE LANDSCAPE ARCHITECT PLANS)
29. CONSTRUCT 36" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
* 30. CONSTRUCT RETAINING WALL PER STRUCTURAL PLANS.
31. CONSTRUCT GRAVITY WALL PER DETAIL ON SHEET NO. 2.
32. CONSTRUCT 24" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
33. CONSTRUCT CURB TRANSITION FROM 8" CF TO 0" CF.
34. CONSTRUCT 12" WIDE 4" THICK CONCRETE STEPPING STRIP PER DETAIL ON SHEET NO. 2 OR PER CITY STD. NO. 210.
35. CONSTRUCT GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS (200 LB) WITH CUT-OFF CURB, SEE DETAIL ON SHEET NO. 2.
36. CONSTRUCT HEADWALL PER GRAVITY WALL DETAIL ON SHEET NO. 2.
37. CONSTRUCT 18" CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2.
38. CONSTRUCT MOWSTRIP PER LANDSCAPE/ARCHITECHTURAL PLANS.
39. CONSTRUCT 42" IRREGULAR CONCRETE U CHANNEL PER DETAIL ON SHEET NO. 2
39A. CONSTRUCT 12" CURB PER DETAIL ON SHEET NO. 2.
39B. CONSTRUCT CURB TRANSITION FROM 6" CURB TO 12" CURB.

* PER SEPARATE PERMIT

SHEET 4 | SHEET 5 | SHEET 6
SHEET 9 | SHEET 8 | SHEET 7
SHEET 10 | SHEET 11 | SHEET 12
SHEET 13

INDEX MAP
N.T.S.

0 10 20 40 60
SCALE:1"=20'

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06 "

Last Update: 01/19/06
N:\2552\2552GP13.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF MAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A MAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDWELL MONUMENT.
ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

OFFICE	INITIAL	DATE
LAND DEVELOPMENT	VBG	1/20/06
ENTERPRISE SEVRICES	PH	1/23/06
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/20/06
APPROVED
PREM KUMAR DATE
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 <EXP. 12/31/2006
No. 53613 Exp. 6-30-07

DRAWN BY
DESIGN BY
REC. BY:
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

PRECISE GRADING PLAN

ACCT. NO.

SHEET 13 NO. 18

CITY I. D. NO. 2564

SEWER CONSTRUCTION NOTES:

(40) CONSTRUCT 6" PVC SDR-35 SEWER LATERAL

(41) CONSTRUCT 6" SEWER CLEAN-OUT

WATER CONSTRUCTION NOTES:

(50) INSTALL 2" COPPER BRASS PIPE.

(51) INSTALL 2" METER SERVICE CONNECTION PER EMWD STD. DWG. NO. B-344.

(52) INSTALL 2" BACKFLOW PREVENTION ASSEMBLY PER EMWD STD. DWG. NO. B-597.

(53) INSTALL 2 1/2" PVC PIPE SCH.80.

(54) SAWCUT EXISTING AC PAVEMENT AND BACKFILL PER CITY STD. 602A-602C OR AS REQUIRED BY THE CITY ENGINEER.

(55) INSTALL 1 1/2" BACKFLOW PREVENTOR ASSEMBLY PER EMWD STD. DWG. NO. B-597

(56) INSTALL 1 1/2" METER SERVICE CONNECTION PER EMWD STD. DWG. NO. B-344.

(57) INSTALL 1 1/2" COPPER BRASS PIPE.

(58) INSTALL 1 1/2" PVC PIPE SCH.80.

(59) INSTALL FIRE HYDRANT PER EMWD STD. DWG. NO. B-356.

(59A) INSTALL 10" DOUBLE DETECTOR CHECK VALVE.

(59B) INSTALL 10" PVC WATER LINE.

(59C) ABONDONED EXISTING WATER METER AT MAIN.

0 30 60 120 180

SCALE:1"=60'

SCALE:1"=30'

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 335284

CONSTRUCTION SET 01-18-06 " Last Update:01/19/06 M:\2552\2552GP14.dwg

BENCH MARK	BASIS OF BEARING
RIVERSIDE COUNTY SURVEYOR B.M. NO. "24-12" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)	THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°20'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

REVIEW BY CITY STAFF

	OFFICE	INITIAL	DATE
	LAND DEVELOPMENT	VBC	1/24/06
	ENTERPRISE SEVRICES		
	PLANNING		
	TRANSPORTATION		
	CAPITAL PROJECT		
	PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.D.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/24/06
APPROVED REC. BY:
PREM KUMAR DATE
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 EXP. 12/31/2006
No. 53613 Exp. 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

SEWER AND WATER PLAN

FOR

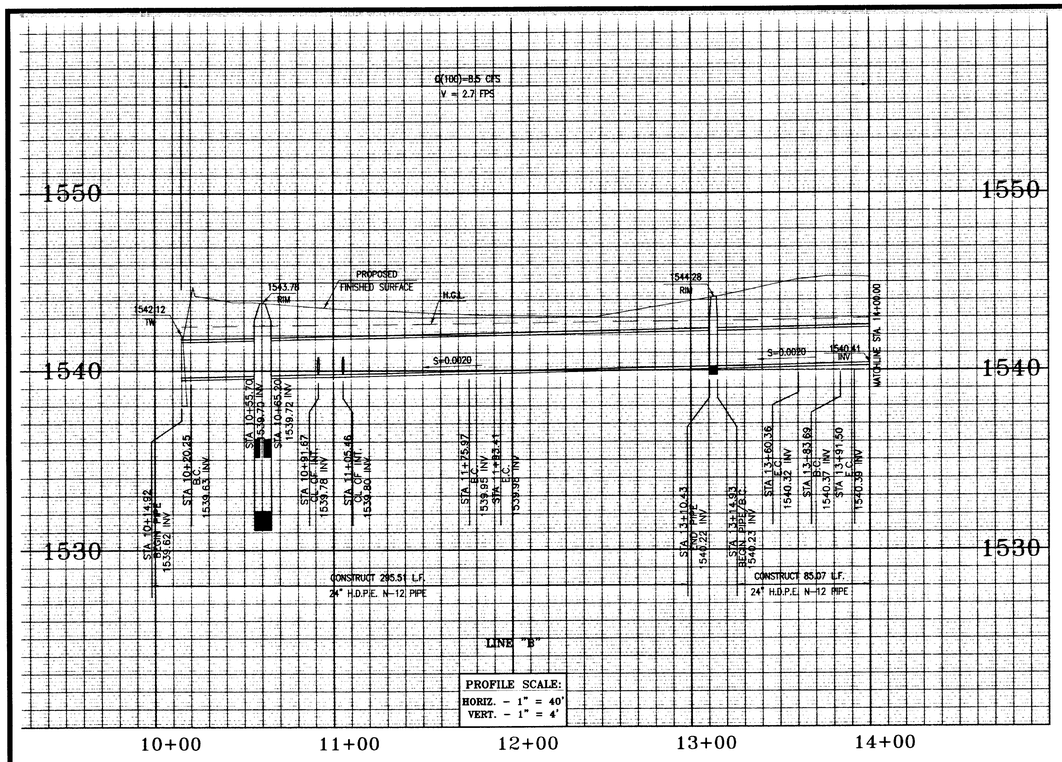
MARCH COMMERCE CENTER

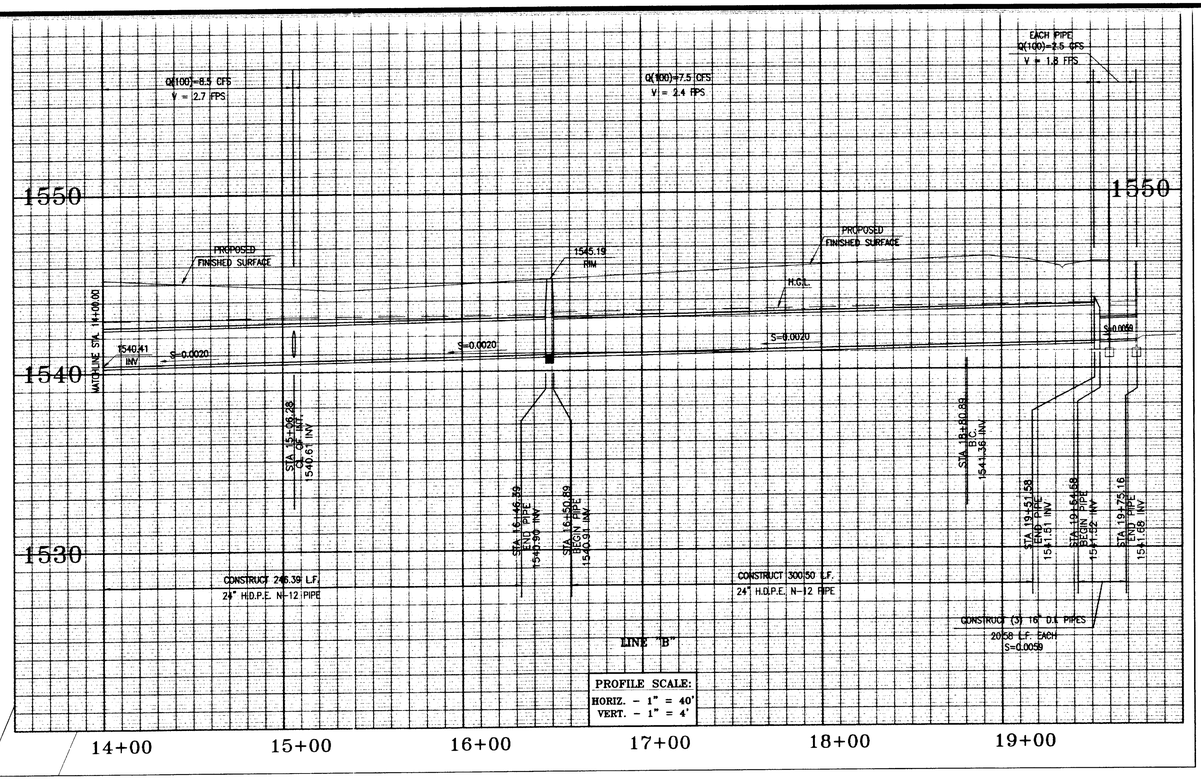
22150 GOLDEN CREST DRIVE

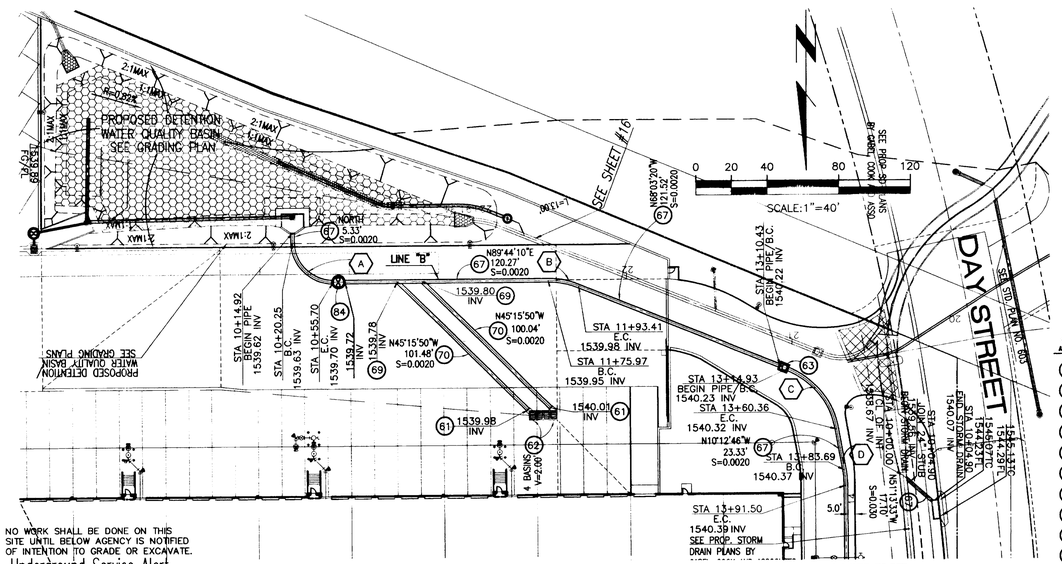
ACCT. NO.

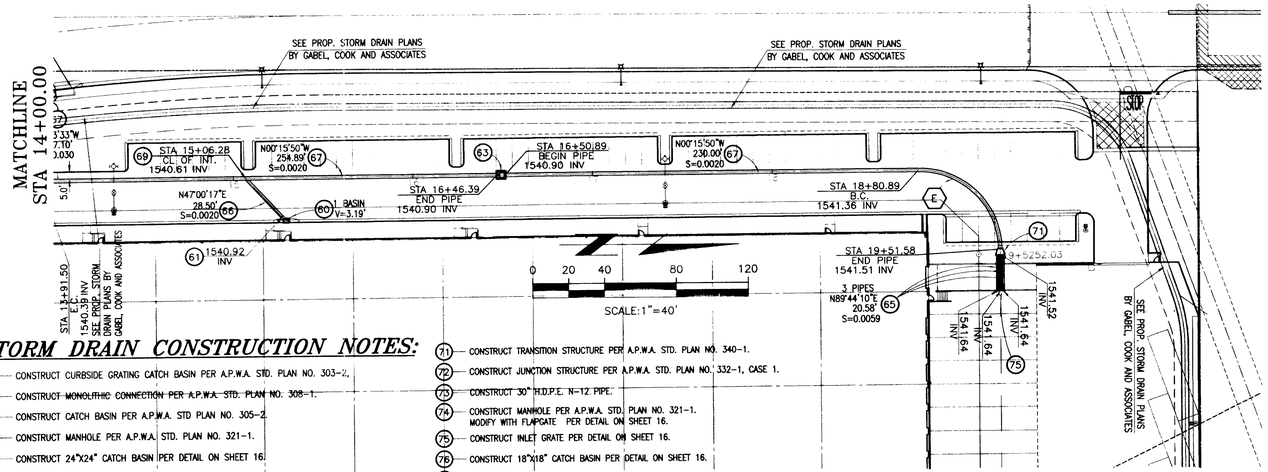
SHEET 14 NO. 18

CITY I. D. NO. 2564









STORM DRAIN CONSTRUCTION NOTES:

60 CONSTRUCT CURBSIDE GRATING CATCH BASIN PER A.P.W.A. STD. PLAN NO. 303-2.
61 CONSTRUCT MONOLITHIC CONNECTION PER A.P.W.A. STD. PLAN NO. 308-1.
62 CONSTRUCT CATCH BASIN PER A.P.W.A. STD PLAN NO. 305-2.
63 CONSTRUCT MANHOLE PER A.P.W.A. STD. PLAN NO. 321-1.
64 CONSTRUCT 24"X24" CATCH BASIN PER DETAIL ON SHEET 16.
65 CONSTRUCT 16" DUCTILE IRON PIPE.
66 CONSTRUCT 18" H.D.P.E. N-12 PIPE.
67 CONSTRUCT 24" H.D.P.E. N-12 PIPE.
68 CONSTRUCT 30" RCP.
69 CONSTRUCT H.D.P.E. N-12 PIPE WYE PER PLAN.
70 CONSTRUCT 12" H.D.P.E. N-12 PIPE.
71 CONSTRUCT TRANSITION STRUCTURE PER A.P.W.A. STD. PLAN NO. 340-1.
72 CONSTRUCT JUNCTION STRUCTURE PER A.P.W.A. STD. PLAN NO. 332-1, CASE 1.
73 CONSTRUCT 30" H.D.P.E. N-12 PIPE.
74 CONSTRUCT MANHOLE PER A.P.W.A. STD. PLAN NO. 321-1. MODIFY WITH FLAPGATE PER DETAIL ON SHEET 16.
75 CONSTRUCT INLET GRATE PER DETAIL ON SHEET 16.
76 CONSTRUCT 18"X18" CATCH BASIN PER DETAIL ON SHEET 16.
77 CONSTRUCT TRANSITION STRUCTURE PER A.P.W.A. STD. PLAN NO. 342-1.
78 INSTALL 18" PERPORATED H.D.P.E. N-12 PIPE.
79 INSTALL 3" FORCEMAIN SCHEDULE 40.
80 INSTALL SAND AND 3/4" GRAVEL (1:1).
81 INSTALL 3/4" GRAVEL.
82 INSTALL 8" THICK END PLUG PER DETAIL ON SHEET 16.
83 INSTALL MANHOLE PER APWA STD. PLAN NO. 321-1 AND WITH SUMP PUMP PER PLUMBING PLANS.
84 INSTALL CDS UNIT PMSU 40-30.
85 INSTALL CDS UNIT PMSU 20-25

CURVE DATA				
○	△	R	T	L
A	90°16'00"	22.50'	22.60'	35.45'
B	22°13'00"	45.00'	8.83'	17.44'
C	57°51'00"	45.00'	24.86'	45.43'
D	09°57'00"	45.00'	3.92'	7.81'
E	90°00'00"	45.00'	45.00'	70.69'

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06" Last Update: 01/19/06 N:\2552\2552GP15.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #2137.35; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDWELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

OFFICE	INITIAL	DATE
LAND DEVELOPMENT	VBG	1/24/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.D.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE
APPROVED DATE
PREM KUMAR INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 Exp. 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY
REC. BY:

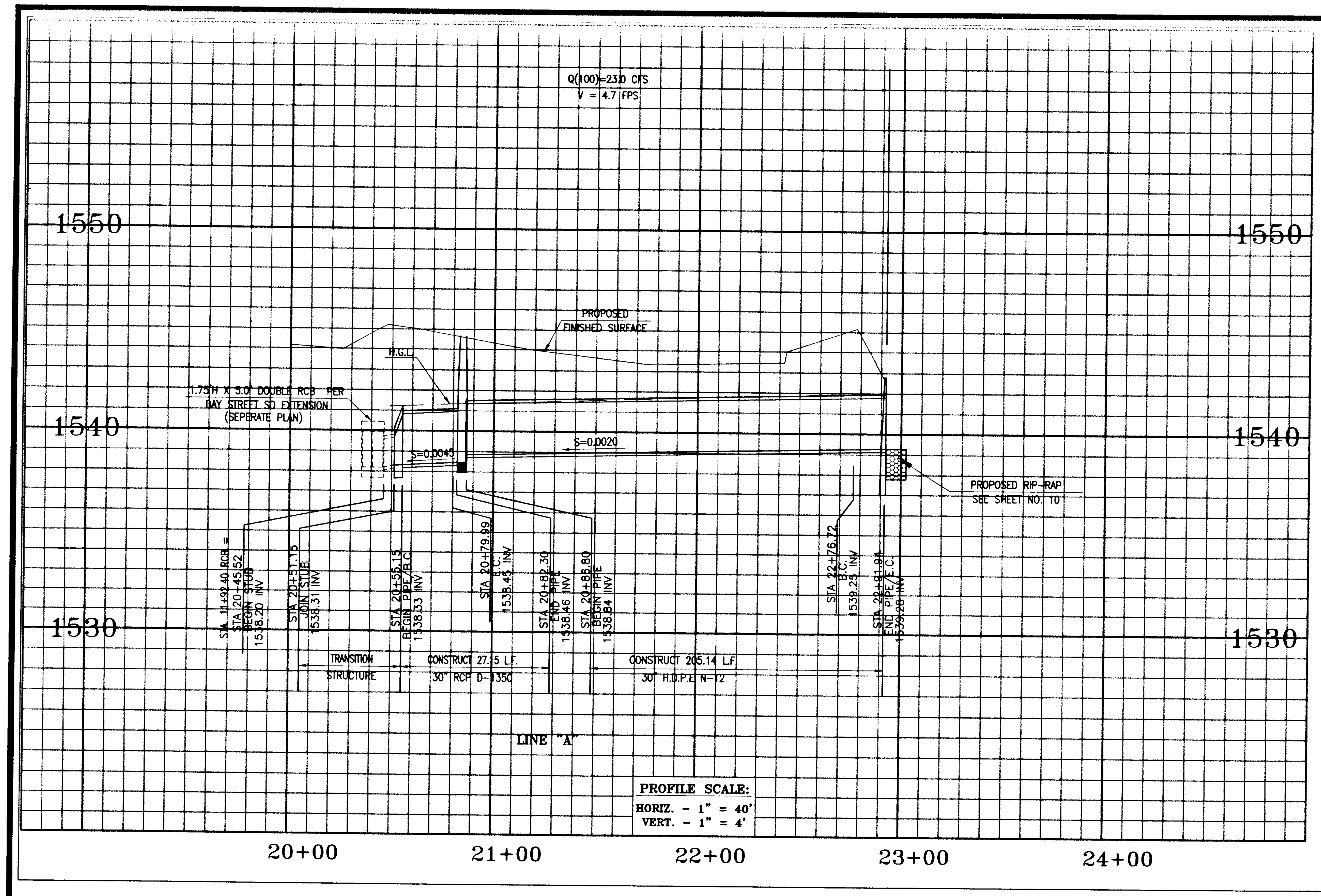
Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

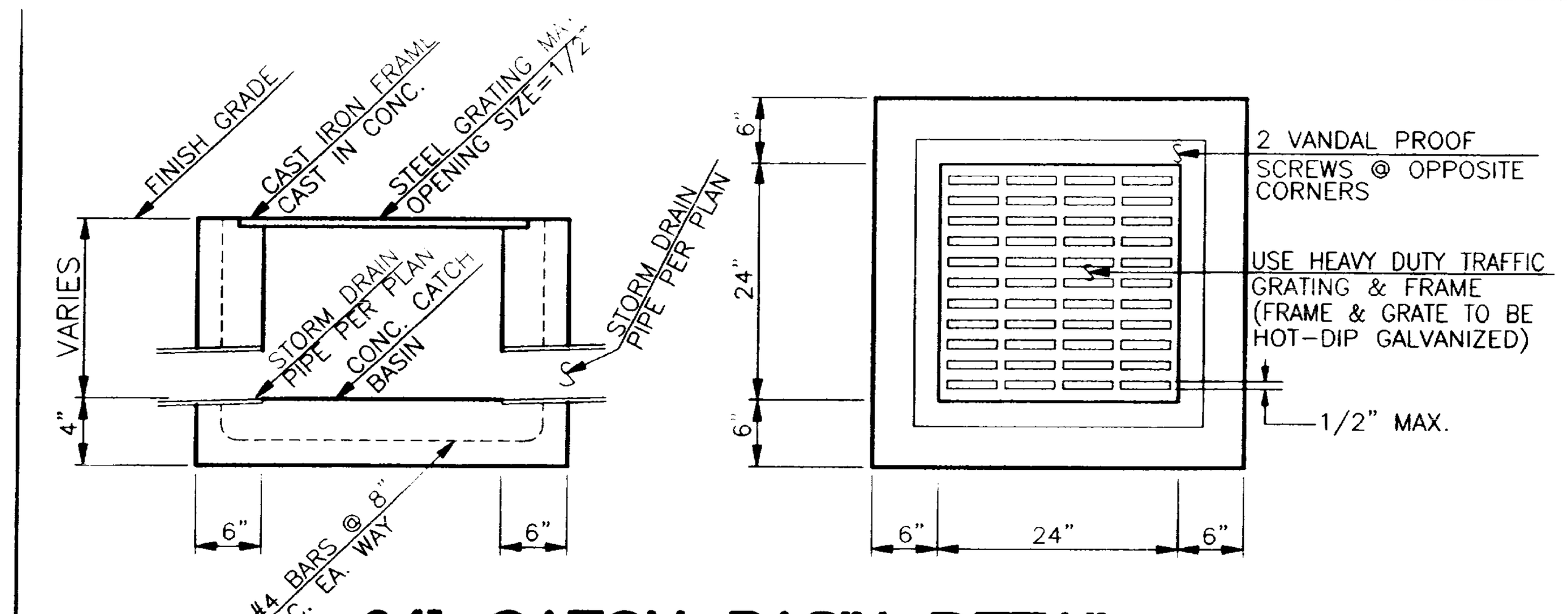
REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

STORM DRAIN PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

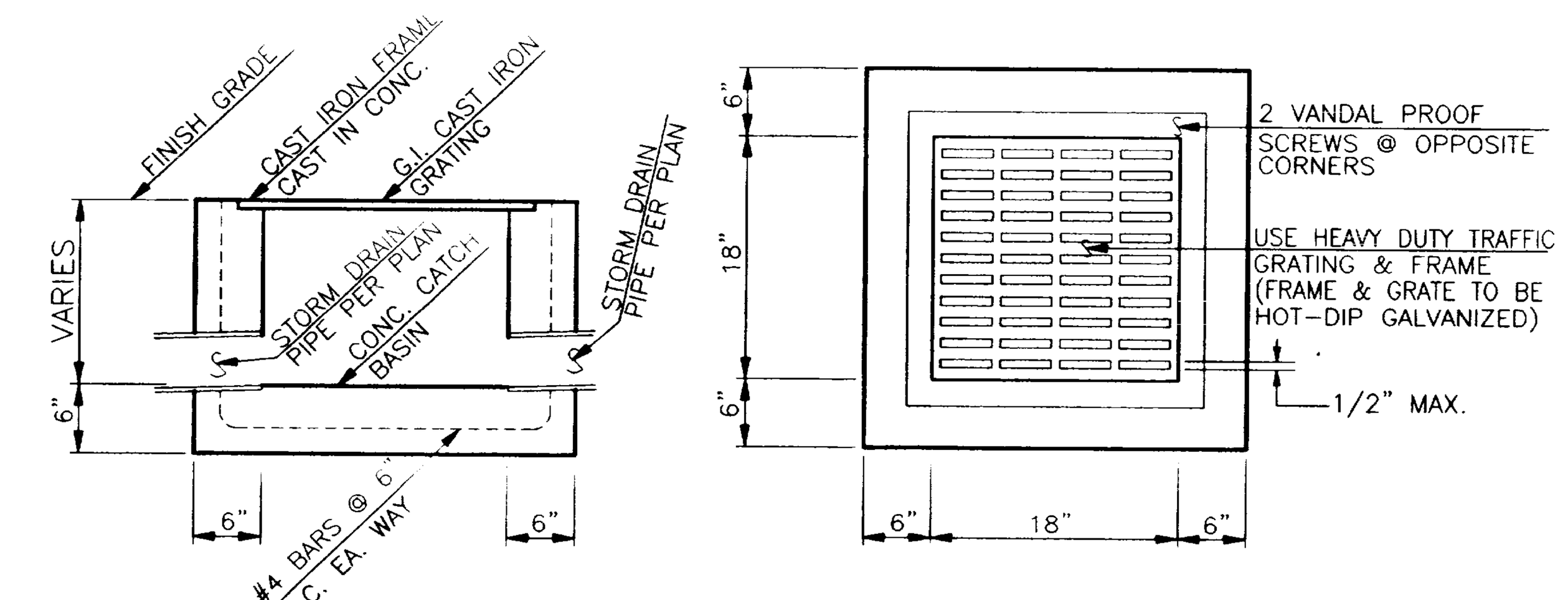
ACCT. NO.
SHEET 15 NO. 18
CITY I. D. NO. 2564





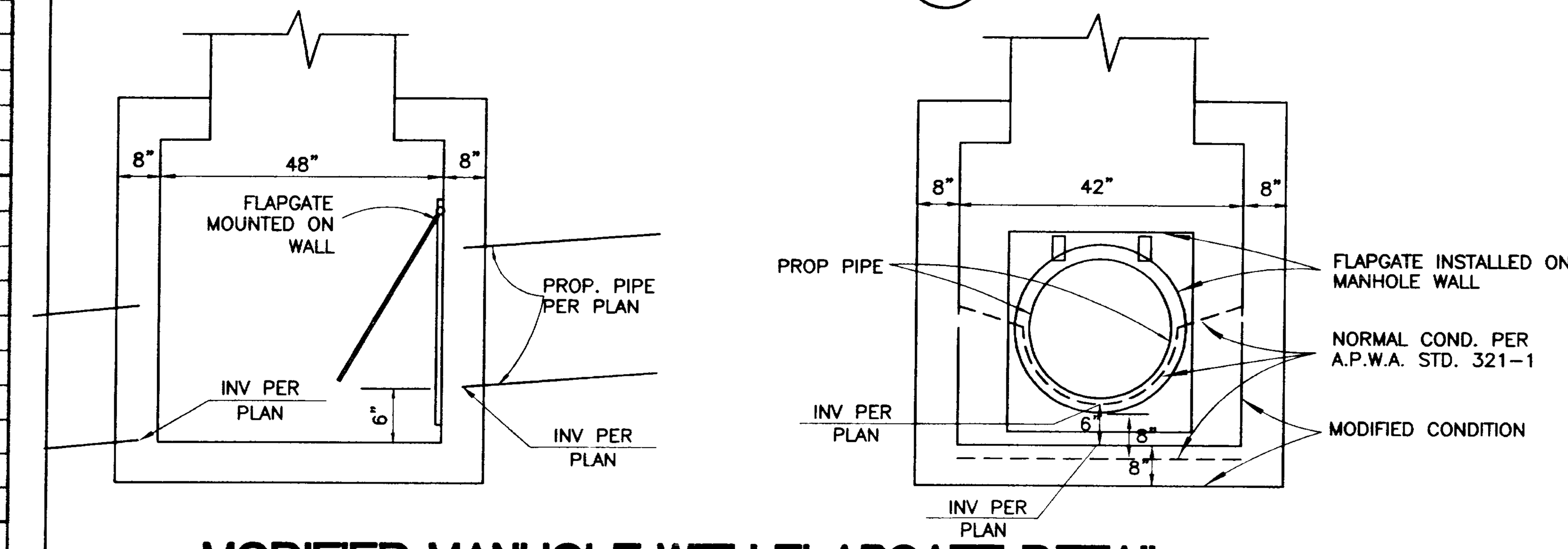
24" CATCH BASIN DETAIL: (64)

N.T.S.



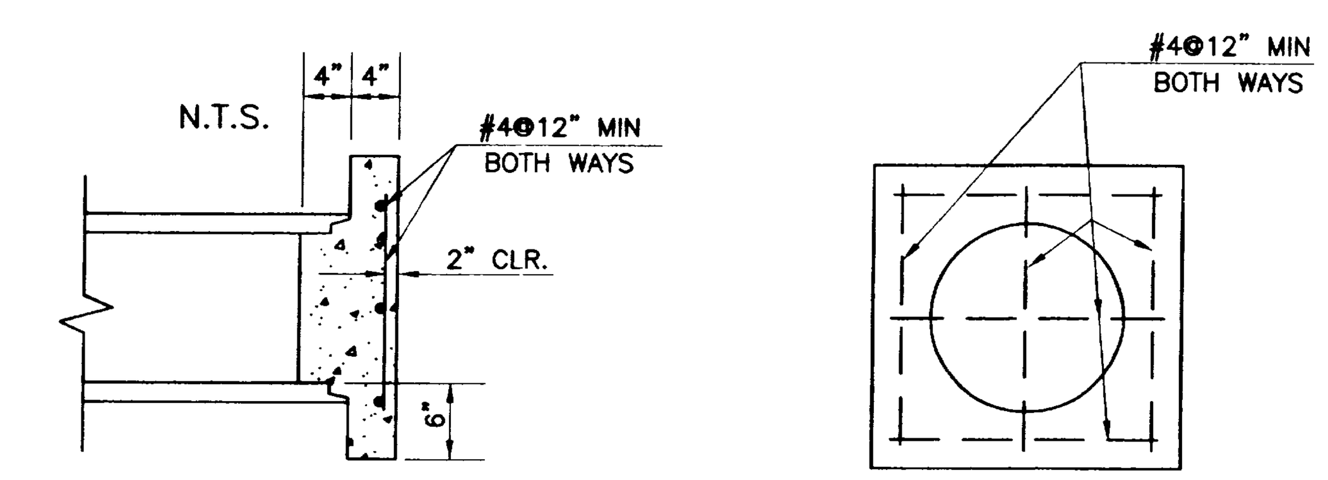
18" CATCH BASIN DETAIL: (76)

N.T.S.



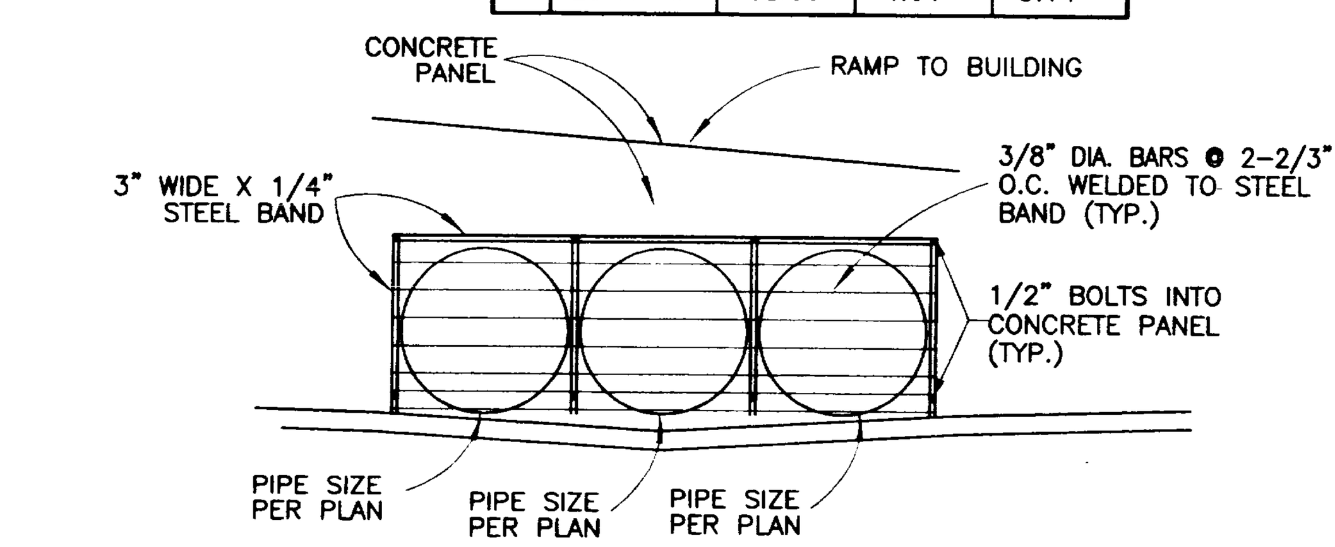
MODIFIED MANHOLE WITH FLAPGATE DETAIL (74)

CURVE DATA				
⬡	△	R	T	L
A	90°16'00"	22.50'	22.60'	35.45'
B	22°13'00"	45.00'	8.83'	17.44'
C	57°51'00"	45.00'	24.86'	45.43'
D	09°57'00"	45.00'	3.92'	7.81'
E	90°00'00"	45.00'	45.00'	70.69'
F	19°23'00"	45.00'	7.69'	15.22'
G	63°15'40"	22.50'	13.86'	24.84'
H	46°12'14"	22.50'	9.60'	18.14'
I	22°20'09"	45.00'	8.88'	17.54'
J	23°17'15"	22.50'	4.64'	9.14'



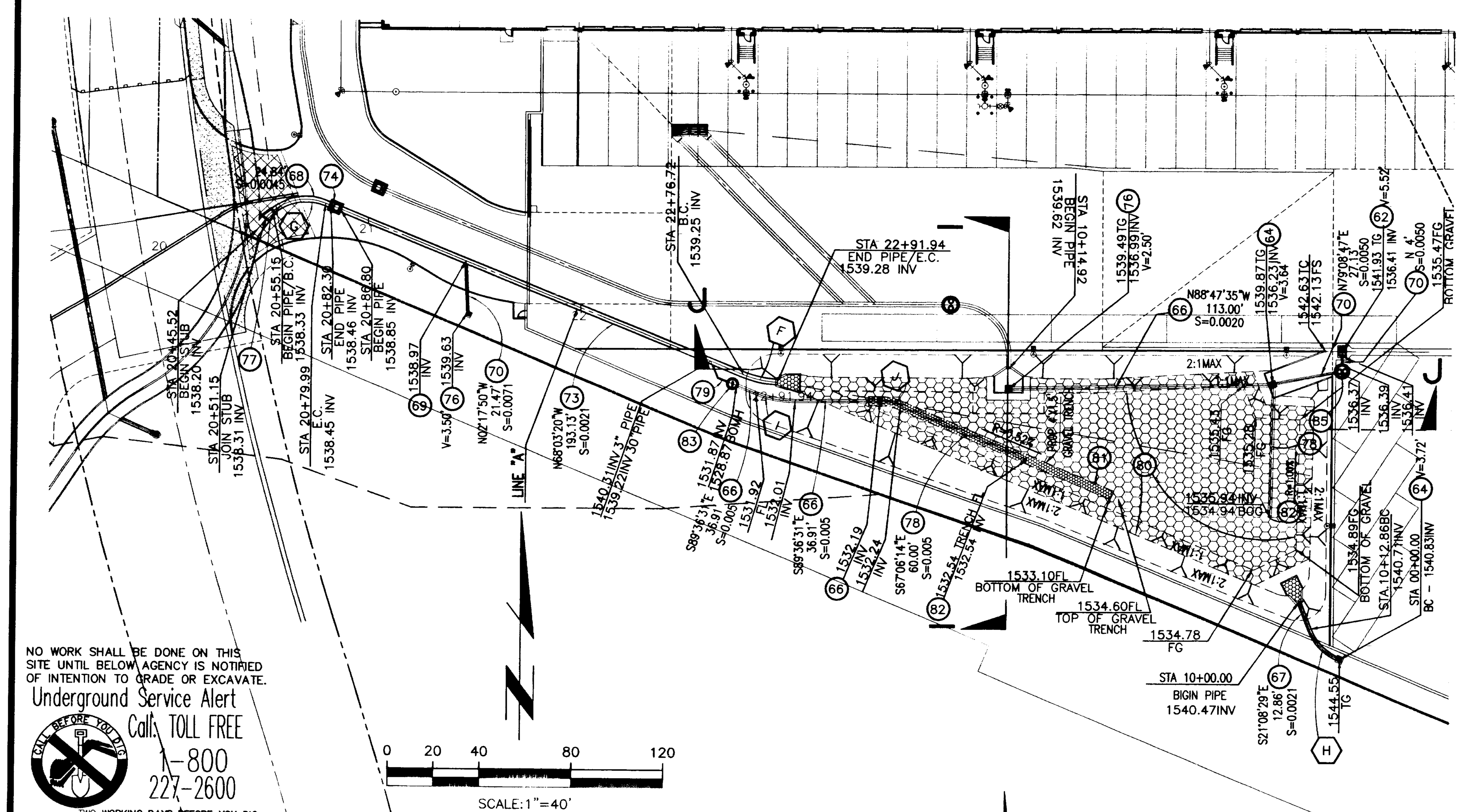
(82) PIPE SEAL DETAIL

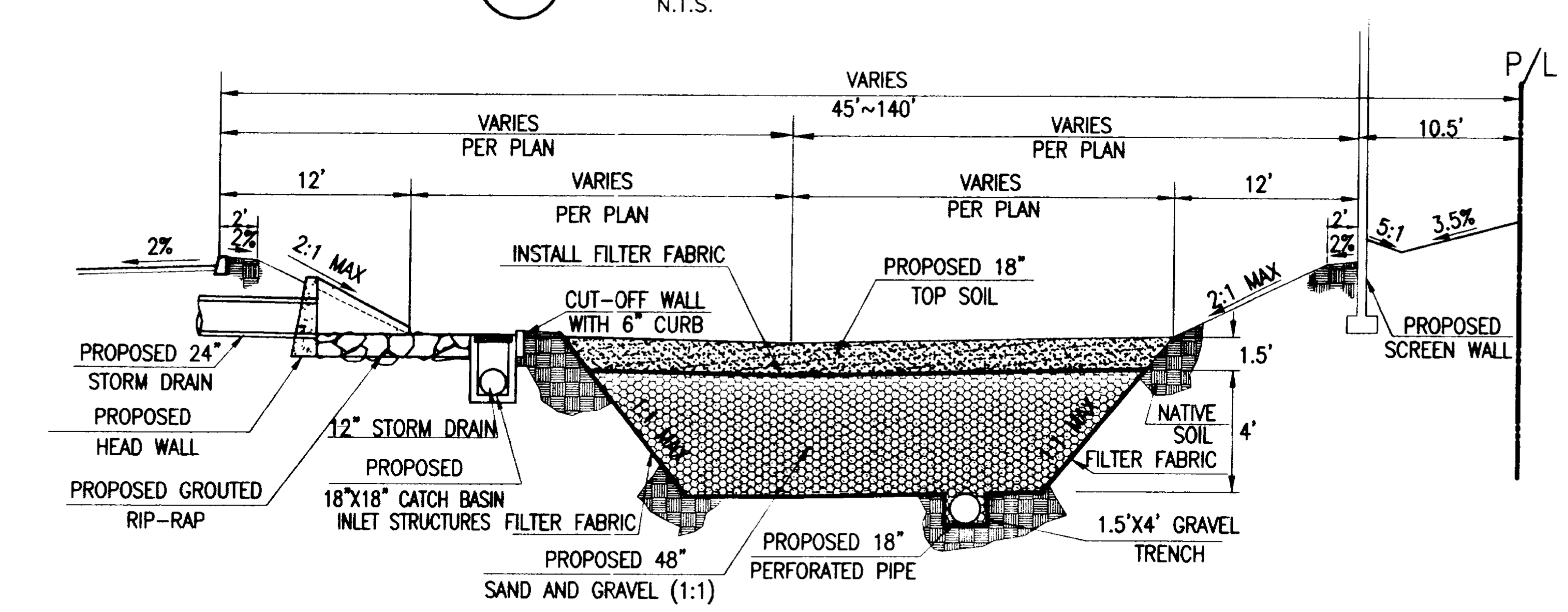
N.T.S.



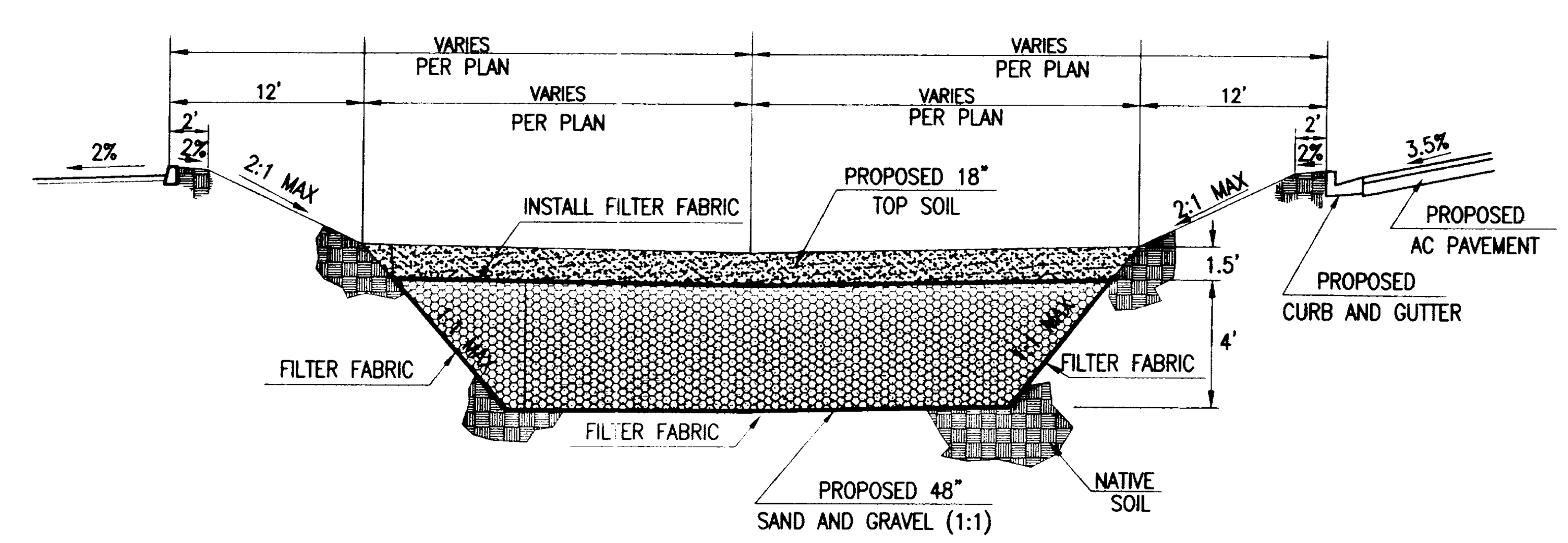
INLET DETAIL (75)

N.T.S.





PROPOSED DESILTING BASIN DETAIL AT INLET STRUCTURES
N.T.S.
SECTION "I-I"



PROPOSED DESILTING BASIN DETAIL SECTION "J-J"

STORM DRAIN CONSTRUCTION NOTES:

(60) CONSTRUCT CURBSIDE GRATING CATCH BASIN PER A.P.W.A. STD. PLAN NO. 303-2,
(61) CONSTRUCT MONOLITHIC CONNECTION PER A.P.W.A. STD. PLAN NO. 308-1.
(62) CONSTRUCT CATCH BASIN PER A.P.W.A. STD PLAN NO. 305-2.
(63) CONSTRUCT MANHOLE PER A.P.W.A. STD. PLAN NO. 321-1.
(64) CONSTRUCT 24"X24" CATCH BASIN PER DETAIL ON SHEET 16.
(65) CONSTRUCT 16" DUCTILE IRON PIPE.
(66) CONSTRUCT 18" H.D.P.E. N-12 PIPE.
(67) CONSTRUCT 24" H.D.P.E. N-12 PIPE.
(68) CONSTRUCT 30" RCP.
(69) CONSTRUCT H.D.P.E. N-12 PIPE WYE PER PLAN.
(70) CONSTRUCT 12" H.D.P.E. N-12 PIPE.
(71) CONSTRUCT TRANSITION STRUCTURE PER A.P.W.A. STD. PLAN NO. 340-1.
(72) CONSTRUCT JUNCTION STRUCTURE PER A.P.W.A. STD. PLAN NO. 332-1, CASE 1.
(73) CONSTRUCT 30" H.D.P.E. N-12 PIPE.
(74) CONSTRUCT MANHOLE PER A.P.W.A. STD. PLAN NO. 321-1. MODIFY WITH FLAPGATE PER DETAIL ON SHEET 16.
(75) CONSTRUCT INLET GRATE PER DETAIL ON SHEET 16.
(76) CONSTRUCT 18"X18" CATCH BASIN PER DETAIL ON SHEET 16.
(77) CONSTRUCT TRANSITION STRUCTURE PER A.P.W.A. STD. PLAN NO. 342-1.
(78) INSTALL 18" PERPORATED H.D.P.E. N-12 PIPE.
(79) INSTALL 3" FORCEMAIN SCHEDULE 40.
(80) INSTALL SAND AND 3/4" GRAVEL (1:1).
(81) INSTALL 3/4" GRAVEL.
(82) INSTALL 8" THICK END PLUG PER DETAIL ON SHEET 16.
(83) INSTALL MANHOLE PER APWA STD. PLAN NO. 321-1 AND WITH SUMP PUMP PER PLUMBING PLANS.
(84) INSTALL CDS UNIT PMSU 40-30.
(85) INSTALL CDS UNIT PMSU 20-25

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06" Last Update: 01/19/06 N:\2552\2552GP16.dwg

BENCH MARK

RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDWELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)

BASIS OF BEARING

THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

OFFICE	INITIAL	DATE
LAND DEVELOPMENT	VBG	1/30/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/29/06
APPROVED FOR 2/2/06
PREM KUMAR DATE
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 Exp. 6-30-07

DRAWN BY
DESIGN BY
REC. BY:
CHECKED BY

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER HAIDOOK I. AGHAIAN R.C.E. NO. 43293 Exp. 3-31-06 CIVIL STATE OF CALIFORNIA

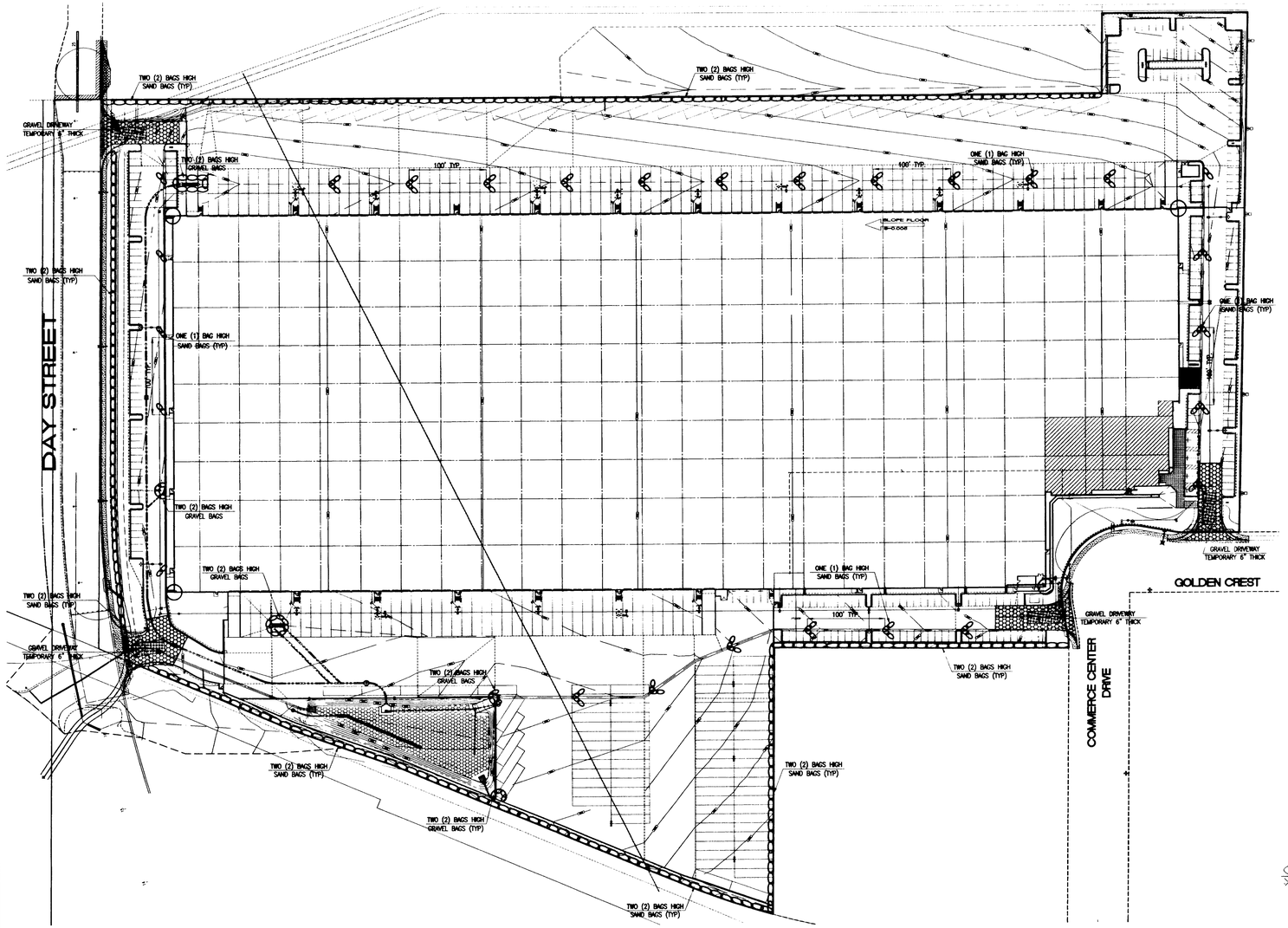
CITY OF MORENO VALLEY

STORM DRAIN PLAN

ACCT. NO.

SHEET 16 NO. 18

CITY I. D. NO. 2564



STORM WATER POLLUTION CONTROL REQUIREMENTS FOR STORM DRAIN CONSTRUCTION

1. ERODED SEDIMENTS AND OTHER POLLUTANTS SHALL BE RETAINED ON SITE AND SHALL NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS SHALL BE PROTECTED
3. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS SHALL BE STORED IN ACCORDANCE WITH THEIR LISTINGS AND ARE NOT TO CONTAMINATE THE SOIL, AND SURFACE WATERS ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS SHALL NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. EXCESS OR WASTE CONCRETE SHALL NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
5. TRASH AND CONSTRUCTION RELATED SOLID WASTES SHALL BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATIONS OF RAINWATER AND DISPERSAL BY WIND.
6. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT-OF-WAY. ACCIDENTAL DEPOSITIONS SHALL BE SWEPT UP IMMEDIATELY AND SHALL NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
7. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION SHALL BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
8. THE BEST MANAGEMENT PRACTICE HANDBOOK, LATEST REVISED EDITION, SHALL APPLY DURING CONSTRUCTION (ADDITIONAL MEASURES AS OUTLINED BELOW SHALL BE REQUIRED IF DEEMED APPROPRIATE BY THE CITY):

CA001	- DEWATERING OPERATIONS	ESC20	- GEOTEXTILES AND MATS
CA002	- PAVING OPERATIONS	ESC21	- DUST CONTROLS
CA003	- STRUCTURE CONSTRUCTION AND PAINTING	ESC22	- TEMPORARY STREAM CROSSING
CA010	- MATERIAL DELIVERY AND STORAGE	ESC23	- CONSTRUCTION ROAD STABILIZATION
CA012	- SPILL PREVENTION AND CONTROL	ESC24	- STABILIZED CONSTRUCTION ENTRANCE
CA020	- SOLID WASTE MANAGEMENT	ESC30	- EARTH DIKE
CA021	- HAZARDOUS WASTE MANAGEMENT	ESC31	- TEMPORARY DRAINS AND SWALES
CA023	- CONCRETE WASTE MANAGEMENT	ESC32	- SLOPE DRAIN
CA030	- VEHICLE AND EQUIPMENT CLEANING	ESC40	- OUTLET PROTECTION
CA031	- VEHICLE AND EQUIPMENT FUELING	ESC41	- CHECK DAMS
CA032	- VEHICLE AND EQUIPMENT MAINTENANCE	ESC50	- SILT FENCE
CA040	- EMPLOYEE/SUBCONTRACTOR TRAINING	ESC51	- STRAW BALE BARRIERS
ESC01	- SCHEDULING	ESC52	- SAND BAG BARRIER
ESC02	- PRESERVATION OF EXISTING VEGETATION	ESC53	- BRUSH OR ROCK FILTER
ESC10	- SEEDING AND PLANTING	ESC54	- STORM DRAIN INLET PROTECTION
ESC11	- MULCHING		

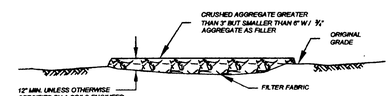
EROSION CONTROL NOTES

CURB INLET SEDIMENT BARRIERS CONSTRUCTION SPECIFICATIONS:

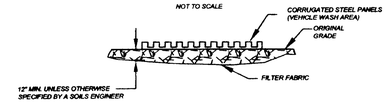
1. BARRIERS SHALL BE PLACED ON GENTLY SLOPING STREETS WHERE WATER CAN POND PER M.V. STD PLAN 611
2. THE BARRIERS SHALL ALLOW FOR OVERFLOW FROM A SEVERE STORM EVENT. SLOPE RUNOFF SHALL BE CONTROLLED USING M.V. STD PLAN NO'S 613 OR 614. A SPILLWAY SHALL BE CONSTRUCTED WITH THE SANDBAG STRUCTURES TO ALLOW OVERFLOW.
3. SANDBAG'S SHOULD BE OF WOVEN-TYPE GEOTEXTILE FABRIC.
4. SANDBAGS SHALL BE FILLED WITH 3/4 INCH (19 mm) DRAIN ROCK OR 1/4 INCH (6 mm) PEA GRAVEL.
5. SANDBAGS SHALL BE PLACED IN A CURVED ROW FROM THE TOP OF CURB AT LEAST 4 FEET (1.22 m) INTO THE STREET. THE ROW SHOULD BE CURVED AT THE ENDS, POINTING UPHILL.
6. LAYERS OF BAGS SHALL BE OVER LAPPED AND PACKED TIGHTLY.
7. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO ACT AS A SPILLWAY.

INSPECTION AND MAINTENANCE:

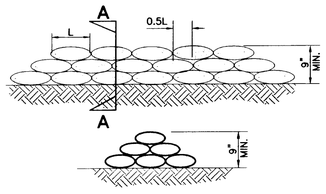
1. THE CONTRACTOR SHALL INSPECT AND CLEAN BARRIER DURING AND AFTER EACH STORM AND REMOVE SEDIMENT FROM BEHIND SANDBAG STRUCTURE AFTER EACH STORM.
2. ANY SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM THE TRAVELED WAY OF ROADS.
3. THE REMOVED SEDIMENT SHALL BE PLACED WHERE IT CANNOT ENTER A STORM DRAIN, STREAM, OR BE TRANSPORTED OFF SITE.
4. IF THE GRAVEL BECOMES CLOGGED WITH SEDIMENT, IT MUST BE REMOVED FROM THE INLET AND OR REPLACED WITH NEW GRAVEL.



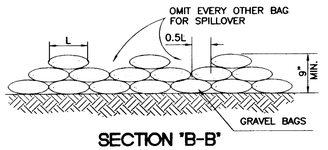
SECTION B-B
NOT TO SCALE



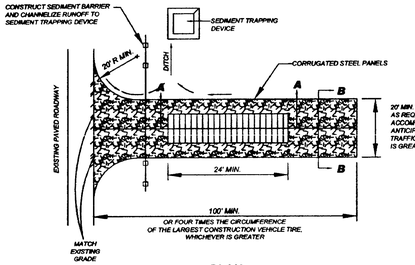
SECTION A-A
NOT TO SCALE



SECTION "A-A"
SANDBAG DETAIL
NTS



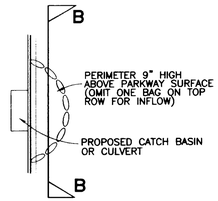
SECTION "B-B"



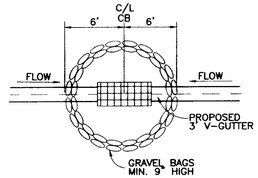
PLAN
NOT TO SCALE

NOTES:

1.) ALL CONSTRUCTION EQUIPMENT / PERSONNEL VEHICLE LEAVING THE CONSTRUCTION SITE SHALL BE WASHED DOWN TO REMOVE ALL MUD FROM VEHICLE PRIOR TO ENTERING THE PUBLIC RIGHT-OF-WAY.



PLAN – CURB INLET

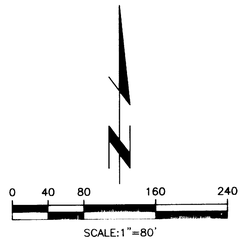


PLAN – CATCH BASIN (SUMP)

EROSION CONTROL NOTES QTY.

ONE BAG HIGH GRAVEL BAGS	700 LF
ONE BAG HIGH SAND BAGS	3,600 LF
6" THICK TEMPORARY GRAVEL DRIVEWAY	13,677 SF

STORM DRAIN INLET PROTECTION
NTS



NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.
Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06 " Last Update: 01/19/06 N:\2502\2502GP17.dwg

BENCH MARK	BASIS OF BEARING
RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213.36; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDHELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)	THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

REVIEW BY CITY STAFF

	INITIAL	DATE
OFFICE		
LAND DEVELOPMENT	VB6	1/23/06
ENTERPRISE SEVRICES		
PLANNING		
TRANSPORTATION		
CAPITAL PROJECT		
PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.O.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/23/06

APPROVED
PREM KUMAR DATE 2/6/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 5363 Exp 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY
REC. BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

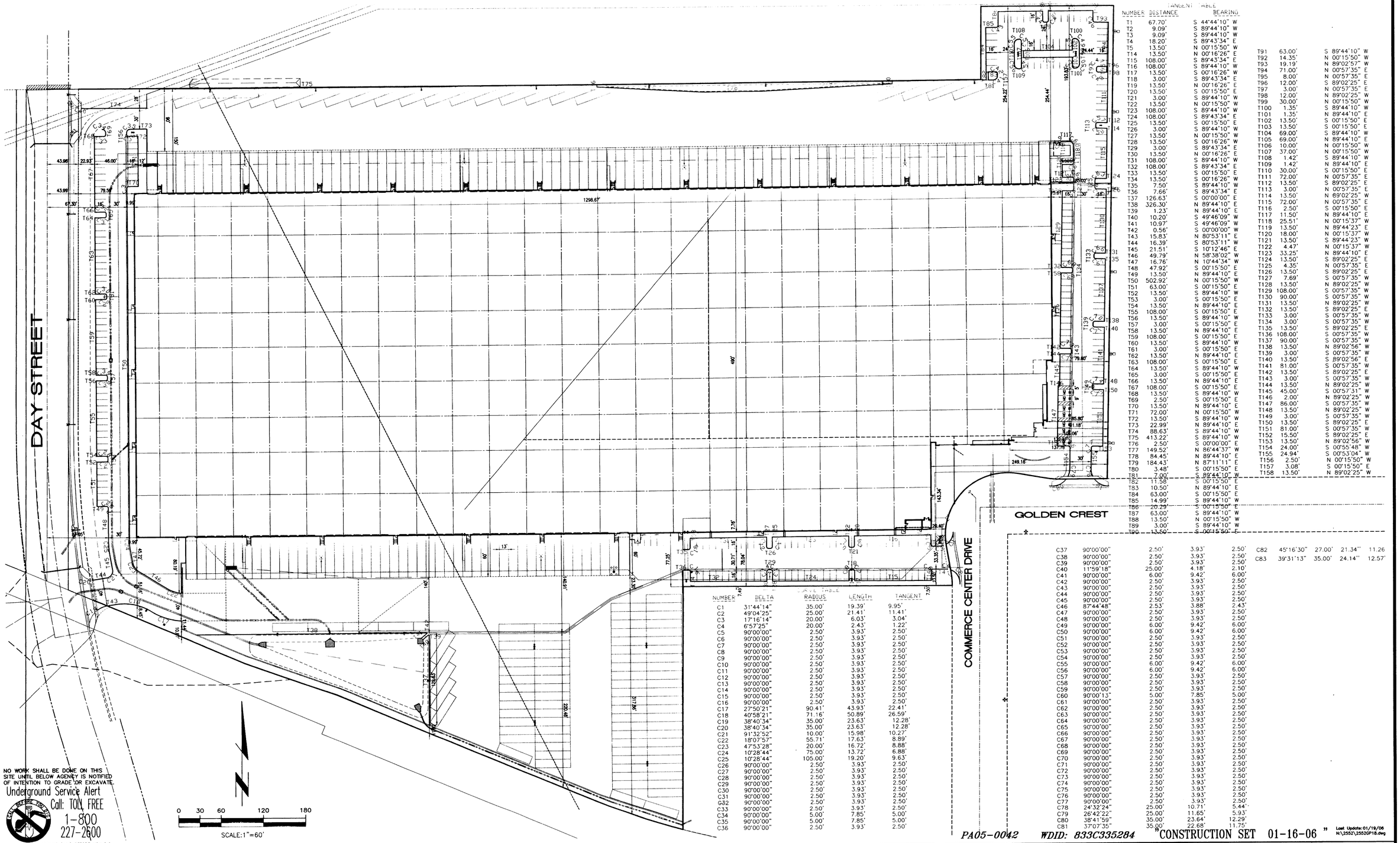
CITY OF MORENO VALLEY

EROSION CONTROL PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

ACCT. NO.

SHEET 17 NO. 18

CITY I. D. NO. 2564



NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert
Call: TOLL FREE
1-800
227-2600
TWO WORKING DAYS BEFORE YOU DIG

TANGENT TABLE

NUMBER	DISTANCE	BEARING
T1	67.70'	S 44°44'10" W
T2	9.09'	S 89°44'10" W
T3	9.09'	S 89°44'10" W
T4	18.20'	S 89°43'34" E
T5	13.50'	N 00°15'50" W
T14	13.50'	N 00°16'26" E
T15	108.00'	S 89°43'34" E
T16	108.00'	S 89°44'10" W
T17	13.50'	S 00°16'26" W
T18	3.00'	S 89°43'34" E
T19	13.50'	N 00°16'26" E
T20	13.50'	S 00°15'50" E
T21	3.00'	S 89°44'10" W
T22	13.50'	N 00°15'50" W
T23	108.00'	S 89°44'10" W
T24	108.00'	S 89°43'34" E
T25	13.50'	S 00°15'50" E
T26	3.00'	S 89°44'10" W
T27	13.50'	N 00°15'50" W
T28	13.50'	S 00°16'26" W
T29	3.00'	S 89°43'34" E
T30	13.50'	S 00°16'26" E
T31	108.00'	S 89°44'10" W
T32	108.00'	S 89°43'34" E
T33	13.50'	S 00°15'50" E
T34	13.50'	S 00°16'26" W
T35	7.50'	S 89°44'10" W
T36	7.66'	S 89°43'34" E
T37	126.63'	S 00°00'00" E
T38	326.30'	N 89°44'10" E
T39	1.23'	N 89°44'10" E
T40	10.20'	S 49°46'09" W
T41	10.97'	S 49°46'09" W
T42	0.56'	S 00°00'00" W
T43	15.83'	N 80°53'11" E
T44	16.39'	S 80°53'11" W
T45	21.51'	S 10°12'46" E
T46	49.79'	N 58°38'02" W
T47	16.76'	N 10°44'34" W
T48	47.92'	S 00°15'50" E
T49	13.50'	N 89°44'10" E
T50	502.92'	N 00°15'50" W
T51	63.00'	S 00°15'50" E
T52	13.50'	S 89°44'10" W
T53	3.00'	S 00°15'50" E
T54	13.50'	N 89°44'10" E
T55	108.00'	S 00°15'50" E
T56	13.50'	S 89°44'10" W
T57	3.00'	S 00°15'50" E
T58	13.50'	N 89°44'10" E
T59	108.00'	S 00°15'50" E
T60	13.50'	S 89°44'10" W
T61	3.00'	S 00°15'50" E
T62	13.50'	N 89°44'10" E
T63	108.00'	S 00°15'50" E
T64	13.50'	S 89°44'10" W
T65	3.00'	S 00°15'50" E
T66	13.50'	N 89°44'10" E
T67	108.00'	S 00°15'50" E
T68	13.50'	S 89°44'10" W
T69	2.50'	S 00°15'50" E
T70	13.50'	N 89°44'10" E
T71	72.00'	N 00°15'50" W
T72	13.50'	S 89°44'10" W
T73	22.99'	N 89°44'10" E
T74	88.63'	S 89°44'10" W
T75	413.22'	S 89°44'10" W
T76	2.50'	S 00°00'00" E
T77	149.52'	N 86°44'37" W
T78	84.45'	N 89°44'10" E
T79	184.43'	N 87°11'11" E
T80	3.48'	S 00°15'50" E
T81	7.00'	S 89°44'10" W
T82	11.58'	S 00°15'50" E
T83	10.50'	N 89°44'10" E
T84	63.00'	S 00°15'50" E
T85	14.99'	S 89°44'10" W
T86	20.29'	S 00°15'50" E
T87	63.00'	S 89°44'10" W
T88	13.50'	N 00°15'50" W
T89	3.00'	S 89°44'10" W
T90	13.50'	S 00°15'50" E
T91	63.00'	S 89°44'10" W
T92	14.35'	N 00°15'50" W
T93	19.19'	N 89°02'57" W
T94	71.00'	N 00°57'35" E
T95	8.00'	N 00°57'35" E
T96	12.00'	S 89°02'25" E
T97	3.00'	N 00°57'35" E
T98	12.00'	N 89°02'25" W
T99	30.00'	N 00°15'50" W
T100	1.35'	S 89°44'10" W
T101	1.35'	N 89°44'10" E
T102	13.50'	S 00°15'50" E
T103	13.50'	S 00°15'50" E
T104	69.00'	S 89°44'10" W
T105	69.00'	N 89°44'10" E
T106	10.00'	N 00°15'50" W
T107	37.00'	N 00°15'50" W
T108	1.42'	S 89°44'10" W
T109	1.42'	N 89°44'10" E
T110	30.00'	N 00°15'50" E
T111	72.00'	N 00°57'35" E
T112	13.50'	S 89°02'25" E
T113	3.00'	N 00°57'35" E
T114	13.50'	N 89°02'25" W
T115	72.00'	N 00°57'35" E
T116	2.50'	S 00°15'50" E
T117	11.50'	N 89°44'10" E
T118	25.51'	N 00°15'37" W
T119	13.50'	N 89°44'23" E
T120	18.00'	N 00°15'37" W
T121	13.50'	S 89°44'23" W
T122	4.47'	N 00°15'37" W
T123	33.25'	N 89°44'10" E
T124	13.50'	S 89°02'25" E
T125	4.35'	N 00°57'35" E
T126	13.50'	S 89°02'25" E
T127	7.69'	S 00°57'35" W
T128	13.50'	N 89°02'25" W
T129	108.00'	S 00°57'35" W
T130	90.00'	S 00°57'35" W
T131	13.50'	N 89°02'25" W
T132	13.50'	S 89°02'25" E
T133	3.00'	S 00°57'35" W
T134	3.00'	S 00°57'35" W
T135	13.50'	S 89°02'25" E
T136	108.00'	S 00°57'35" W
T137	90.00'	S 00°57'35" W
T138	13.50'	N 89°02'56" W
T139	3.00'	S 00°57'35" W
T140	13.50'	S 89°02'56" E
T141	81.00'	S 00°57'35" W
T142	13.50'	S 89°02'25" E
T143	3.00'	S 00°57'35" W
T144	13.50'	N 89°02'25" W
T145	45.00'	S 00°57'31" W
T146	2.00'	N 89°02'25" W
T147	86.00'	S 00°57'35" W
T148	13.50'	N 89°02'25" W
T149	3.00'	S 00°57'35" W
T150	13.50'	S 89°02'25" E
T151	81.00'	S 00°57'35" W
T152	15.50'	S 89°02'25" E
T153	13.50'	N 89°02'56" W
T154	24.00'	S 00°55'48" W
T155	24.94'	S 00°53'04" W
T156	2.50'	N 00°15'50" W
T157	3.08'	S 00°15'50" E
T158	13.50'	N 89°02'25" W

CURVE TABLE

NUMBER	DELTA	RADIUS	LENGTH	TANGENT
C1	31°44'14"	35.00'	19.39'	9.95'
C2	49°04'25"	25.00'	21.41'	11.41'
C3	17°16'14"	20.00'	6.03'	3.04'
C4	6°57'25"	20.00'	2.43'	1.22'
C5	90°00'00"	2.50'	3.93'	2.50'
C6	90°00'00"	2.50'	3.93'	2.50'
C7	90°00'00"	2.50'	3.93'	2.50'
C8	90°00'00"	2.50'	3.93'	2.50'
C9	90°00'00"	2.50'	3.93'	2.50'
C10	90°00'00"	2.50'	3.93'	2.50'
C11	90°00'00"	2.50'	3.93'	2.50'
C12	90°00'00"	2.50'	3.93'	2.50'
C13	90°00'00"	2.50'	3.93'	2.50'
C14	90°00'00"	2.50'	3.93'	2.50'
C15	90°00'00"	2.50'	3.93'	2.50'
C16	90°00'00"	2.50'	3.93'	2.50'
C17	27°50'21"	90.41'	43.93'	22.41'
C18	40°58'21"	71.16'	50.89'	26.59'
C19	38°40'34"	35.00'	23.63'	12.28'
C20	38°40'34"	35.00'	23.63'	12.28'
C21	91°32'52"	10.00'	15.98'	10.27'
C22	18°07'57"	55.71'	17.63'	8.89'
C23	47°53'28"	20.00'	16.72'	8.88'
C24	75.00'	75.00'	13.72'	6.88'
C25	10°28'44"	105.00'	19.20'	9.63'
C26	90°00'00"	2.50'	3.93'	2.50'
C27	90°00'00"	2.50'	3.93'	2.50'
C28	90°00'00"	2.50'	3.93'	2.50'
C29	90°00'00"	2.50'	3.93'	2.50'
C30	90°00'00"	2.50'	3.93'	2.50'
C31	90°00'00"	2.50'	3.93'	2.50'
C32	90°00'00"	2.50'	3.93'	2.50'
C33	90°00'00"	2.50'	3.93'	2.50'
C34	90°00'00"	5.00'	7.85'	5.00'
C35	90°00'00"	5.00'	7.85'	5.00'
C36	90°00'00"	2.50'	3.93'	2.50'
C37	90°00'00"	2.50'	3.93'	2.50'
C38	90°00'00"	2.50'	3.93'	2.50'
C39	90°00'00"	2.50'	3.93'	2.50'
C40	11°59'18"	25.00'	4.18'	2.10'
C41	90°00'00"	6.00'	9.42'	6.00'
C42	90°00'00"	2.50'	3.93'	2.50'
C43	90°00'00"	2.50'	3.93'	2.50'
C44	90°00'00"	2.50'	3.93'	2.50'
C45	90°00'00"	2.50'	3.93'	2.50'
C46	87°44'48"	2.53'	3.88'	2.43'
C47	90°00'00"	2.50'	3.93'	2.50'
C48	90°00'00"	2.50'	3.93'	2.50'
C49	90°00'00"	6.00'	9.42'	6.00'
C50	90°00'00"	6.00'	9.42'	6.00'
C51	90°00'00"	2.50'	3.93'	2.50'
C52	90°00'00"	2.50'	3.93'	2.50'
C53	90°00'00"	2.50'	3.93'	2.50'
C54	90°00'00"	2.50'	3.93'	2.50'
C55	90°00'00"	6.00'	9.42'	6.00'
C56	90°00'00"	6.00'	9.42'	6.00'
C57	90°00'00"	2.50'	3.93'	2.50'
C58	90°00'00"	2.50'	3.93'	2.50'
C59	90°00'00"	2.50'	3.93'	2.50'
C60	90°00'13"	5.00'	7.85'	5.00'
C61	90°00'00"	2.50'	3.93'	2.50'
C62	90°00'00"	2.50'	3.93'	2.50'
C63	90°00'00"	2.50'	3.93'	2.50'
C64	90°00'00"	2.50'	3.93'	2.50'
C65	90°00'00"	2.50'	3.93'	2.50'
C66	90°00'00"	2.50'	3.93'	2.50'
C67	90°00'00"	2.50'	3.93'	2.50'
C68	90°00'00"	2.50'	3.93'	2.50'
C69	90°00'00"	2.50'	3.93'	2.50'
C70	90°00'00"	2.50'	3.93'	2.50'
C71	90°00'00"	2.50'	3.93'	2.50'
C72	90°00'00"	2.50'	3.93'	2.50'
C73	90°00'00"	2.50'	3.93'	2.50'
C74	90°00'00"	2.50'	3.93'	2.50'
C75	90°00'00"	2.50'	3.93'	2.50'
C76	90°00'00"	2.50'	3.93'	2.50'
C77	90°00'00"	2.50'	3.93'	2.50'
C78	24°32'24"	25.00'	10.71'	5.44'
C79	26°42'22"	25.00'	11.65'	5.93'
C80	38°41'59"	35.00'	23.64'	12.29'
C81	37°07'35"	35.00'	22.68'	11.75'
C82	45°16'30"	27.00'	21.34"	11.26
C83	39°31'13"	35.00'	24.14"	12.57'

PA05-0042 WDID: 833C335284 "CONSTRUCTION SET 01-16-06 " Last Update:01/19/06 N:\2552\2552GP18.dwg

BENCH MARK	BASIS OF BEARING	REVIEW BY CITY STAFF		
RIVERSIDE COUNTY SURVEYOR B.M. NO. "M-32" AT THE INTERSECTION OF PERRIS BLVD. & IRIS AVE.; 58.55 FT. S/W OF A CHISELED "X" IN A 3" IRON COR. POST; 40.89 FT. N/E OF NAIL & TAG IN THE WEST SIDE OF POWER POLE #213136; 34.39 FT. N/W OF A NAIL & TAG SET IN S/W SIDE TELEPHONE POLE #15160; A 1" IRON PIPE & TAG MARKED COUNTY SURVEYOR IN A HANDWELL MONUMENT. ELEV. = 1503.526' (NGVD '29 / ESTABLISHED 1963)	THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF CARDINAL AVENUE (FORMERLY MARIPOSA AVENUE) BEING N 89°29'57" W AS PER RECORD OF SURVEY, R.S.B. 97 /29-36, IN THE CITY OF MORENO VALLEY, RECORDS OF COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.	OFFICE	INITIAL	DATE
		LAND DEVELOPMENT	VB6	1/24/06
		ENTERPRISE SEVRICES		
		PLANNING		
		TRANSPORTATION		
		CAPITAL PROJECT		
		PARK AND RECREATION		

MARK	DATE	INITIAL	DESCRIPTION	REC.	APPR	DATE
		E.D.R.	REVISION			

PREPARED BY OR UNDER THE SUPERVISION OF
HAIDOOK I. AGHAIAN R.C.E. No. 43293 DATE 1/16/06
APPROVED
PREM KUMAR DATE 2/2/06
INTERIM CITY ENGINEER, CITY OF MORENO VALLEY
R.C.E. NO. 52463 (EXP. 12/31/2006
No. 53613 Exp. 6-30-07

DRAWN BY
DESIGN BY
CHECKED BY
REC. BY:

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

REGISTERED PROFESSIONAL ENGINEER
HAIDOOK I. AGHAIAN
R.C.E. NO. 43293
Exp. 3-31-06
CIVIL
STATE OF CALIFORNIA

CITY OF MORENO VALLEY

HORIZONTAL CONTROL PLAN
FOR
MARCH COMMERCE CENTER
22150 GOLDEN CREST DRIVE

ACCT. NO.

SHEET 18 NO. 18

CITY I. D. NO. 2564