INITIAL SITE ASSESSMENT REPORT

Culver Drive and Alton Parkway
Intersection Improvement Project
(CIP 311905), Irvine, California

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Sign-off Sheet and Signatures of Environmental Professionals

This document entitled INITIAL SITE ASSESSMENT REPORT was prepared by Stantec Consulting Services Inc. (Stantec) for the City of Irvine, Department of Transportation. The material in it reflects Stantec's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

All information, conclusions, and recommendations provided by Stantec in this document regarding the Phase I Initial Site Assessment (ISA) have been prepared under the supervision of and reviewed by the professionals whose signatures appear below.

Prepared by _____
(signature)

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Environmental Scientist, B.Sc

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional (EP) as defined in § 312.10 of 40 Code of Federal Regulations (CFR) 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the proposed Project. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Reviewed by _____
(signature)

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Abbreviations

AAI	All Appropriate Inquiry
ACM	Asbestos containing material
ADL	Aerially Deposited Lead
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
Caltrans	California Department of Transportation
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulation
CREC	Controlled Recognized Environmental Conditions
DWR	Department of Water Resources
EDR	Environmental Data Resources Inc.
EP	Environmental Professional
EPA	Environmental Protection Agency
ESA	Environmental Study Area
FEMA	Federal Emergency Management Agency
ft bgs	Feet below ground surface
ft msl	Feet above mean sea level
HREC	Historical Recognized Environmental Conditions
I	Interstate
IRWD	Irvine Ranch Water District
ISA	Initial Site Assessment
LBP	Lead-based Paint
LUST	Leaking Underground Storage Tank
msl	Mean sea level
NWI	National Wetlands Inventory
OCFA	Orange County Fire Authority
Orange County Basin	Coastal Plain of Orange County Water Basin
PCBs	Polychlorinated Biphenyls
PCE	Tetracholorethylene
pCi/L	PicoCuries per liter of air
Project	Culver Drive and Alton Parkway Intersection Improvements
REC	Recognized Environmental Conditions
ROW	Right-of-Way
SCE	Southern California Edison

SWRCB	State Water Resources Control Board
TCE	Tricholorethylene
TSCA	Toxic Substances Control Act
TPH	Total Petroleum Hydrocarbons
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VEC	Vapor Encroachment Condition

1.0 INVESTIGATIVE SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Phase I Initial Site Assessment (ISA) of the property located at the intersection of Culver Drive and Alton Parkway in Irvine, Orange County, California (the "Project footprint"), on behalf of the City of Irvine, Department of Transportation (the "Client"). The work was performed according to Stantec's proposal and terms and conditions dated January 31, 2019, amended on March 1, 2019. The City of Irvine, Department of Transportation has been designated as the User of this report.

The Phase I ISA was conducted in conformance with the requirements of American Society for Testing and Materials (ASTM) Designation E 1527-13 and Title 40 of the Code of Federal Regulations (CFR), Part 312, except as may have been modified by the scope of work, and terms and conditions, requested by the Client. Any exceptions to, or deletions from, the ASTM or AAI practice are described in Section 9.2.

The Project is located at the intersection of Culver Drive and Alton Parkway in the western portion of the City of Irvine. The approximate limits of the study area are the San Diego Creek Channel to the northeast, W Yale Loop to the southeast, San Marino Drive to the northwest, and the northeast bound Culver Drive left turn lane southwest of the intersection.

The following items of note were identified during this ISA:

- Observed improvements within the proposed Project footprint include subsurface utilities (e.g., communication lines, telecommunication lines, and traffic signal controls), Irvine Ranch Water District (IRWD) sewer manholes and sewer lines, storm drainage systems, subsurface electrical and power lines, an electrical utility meter station, and three bus stops.
- There is the potential for the presence of ADL and LBP within the proposed Project footprint; Caltrans identifies these compounds as potential chemicals of concern.
- The historical and current land use within the Project footprint suggest the possibility of weed abatement activities and herbicide constituents.
- The area within the environmental study area (ESA) consists of developed land for commercial, residential, and recreational use. The potential exists for weed abatement activities and herbicide constituents, based on historical and current land use of the Project footprint and ESA
- Stantec observed the following during the field reconnaissance visit: utility signage and USA markings in nearby Project properties; a Circle K/Exxon Mobil gas station and carwash located approximately 0.35 miles to the northwest of the intersection at 3765 Alton Parkway; and, West Park Cleaners within the adjacent Westpark Plaza.

This assessment has revealed no evidence of Recognized Environmental Conditions (RECs) in connection with the proposed Project footprint. However, based on the findings of this ISA and the proposed Project, which would include earthwork activities (e.g., demolition, excavation and grading) to widen and modify the intersection of Culver Drive and Alton Parkway, Stantec recommends the completion of a limited Phase II Environmental Site Assessment to evaluate the potential presence of ADL and pesticides/herbicides within the Project Footprint. The purpose of the assessment will be used to evaluate the safe removal and disposal of construction debris and soil generated during the construction phase of the Project (waste characterization and

profiling), as well as to evaluate construction worker health and safety considerations for the Project.

The preceding summary is intended for informational purposes only. Reading of the full body of this report is recommended.

2.0 INTRODUCTION

This Initial Site Assessment (ISA) was prepared on behalf of the City of Irvine to support the proposed Culver Drive and Alton Parkway Intersection Improvement Project located in Irvine, Orange County, California (the Project footprint, Figure 1). This ISA addresses an area within the proposed Project footprint and an environmental study area (ESA) extending 0.5 miles around the proposed Project.

2.1 OBJECTIVE

This ISA was performed in accordance with the practices identified in the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM Designation E1527-13 and Title 40 of the Code of Federal Regulations (CFR), Part 312, which specifies standards and practices for "all appropriate inquiries" (AAI) required for persons seeking to establish certain defenses to or protections from liability under the Federal Comprehensive Environmental Response, Cleanup and Liability Act (CERCLA). The Federal rule 40 CFR 312.11(a) identifies a Phase I Environmental Site Assessment completed in accordance with the E1527-13 practice as one way to achieve compliance with requirements of the AAI rule.

The objective of this ISA was to identify Recognized Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs) or Historical Recognized Environmental Conditions (HRECs), as defined under ASTM E-1527-13.

The term "recognized environmental conditions" means 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.

ASTM defines an "HREC" as a REC that has occurred in connection with the property, but has been addressed to the satisfaction of the applicable regulatory authority and meets unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release an HREC, the Environmental Professional (EP)

must determine whether the past release is a REC when the current Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulations). If the EP considers the past release to be a REC at the time the Phase I Environmental Site Assessment is conducted, the condition shall be included in the conclusions section of the report as a REC.

ASTM defines a "CREC" as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), but with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., property use restrictions, activity and use limitations, institutional controls, or engineering controls).

De minimis conditions are not REC's. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. As indicated, the term REC does not include de minimis conditions, which generally do not present a material risk to human health and would not likely be subject to enforcement action if brought to the attention of governmental agencies.

2.2 SCOPE OF WORK

The scope of work was performed in accordance with the general conditions and requirements outlined in Exhibit C of the City of Irvine's Addendum NO.1 RFP Number G1-19-1496 requirements and California Department of Transportation (Caltrans) guidelines for ISA. Individual elements include, but are not limited to:

- Review of project construction plans and aerial photos;
- Reconnaissance of properties from the public ROWs within the study limits indicated on Figures 1 and 2;
- Review of government databases and Environmental Data Resources, Inc. (EDR) documentation;
- Review of historical Sanborn Fire Insurance maps;
- Review of historical aerial photograph;
- Review of pertinent environmental and responsible agency information for properties identified as RECs within the proposed Project;
- Development of a report describing the findings, results and conclusions/recommendations of this ISA; and,
- Completion of a user questionnaire.

The scope of work did not include:

- Review of title reports for properties in the study area.

In addition to the above, the scope of work did not include an assessment for environmental regulatory compliance of any facility ever operated at the proposed Project (past or present), or

sampling and analyzing of environmental media. Stantec was not contracted to perform any independent evaluation of the purchase or lease price of the proposed Project and its relationship to current fair market value. The conclusions presented in this ISA Report are professional opinions based on data described herein. The opinions are subject to the limitations described in Section 2.3.

ASTM E1527-13 notes that the availability of record information varies from source to source. The User or EP is not obligated to identify, obtain, or review every possible source that might exist with respect to a property. Instead, ASTM identifies record information that is reasonably ascertainable from standard sources. "Reasonably ascertainable" means:

(1) Information that is publicly available;

(2) Information that is obtainable from its source within reasonable time and cost constraints; and

(3) Information that is practicably reviewable.

2.3 SIGNIFICANT DATA GAPS

Significant data gaps as defined in the AAI final rule and ASTM E 1527-13 standard include missing or unattainable information that may impact the identification of releases or contamination on the subject property such as lack of response from agencies or the user of the report failing to provide relevant information. No significant data gaps were identified in connection with the performance of this ISA.

3.0 SITE DESCRIPTION

3.1 LOCATION AND DESCRIPTION

The proposed Project is located within Orange County, CA. Specifically, the Project footprint is defined as the intersection of Culver Drive and Alton Parkway in the western portion of the City of Irvine. The approximate limits of the study area are the San Diego Creek Channel to the northeast, W Yale Loop to the southeast, San Marino Drive to the northwest, and the northeast bound Culver Drive left turn lane southwest of the intersection (Figures 2 and 3).

The Project proposes the addition of a fourth northbound through lane on Culver Drive and the free right turn lane for southbound Culver Drive will be reconstructed as a standard right turn lane. In order to accommodate the new roadway design, a minor acquisition is required for portion of permanent right of way (ROW) on the southeast corner of the intersection.

A location map is illustrated on Figure 1. Maps illustrating the study area and Project are provided as Figures 2 and 3; respectively. Photographs taken during the site reconnaissance visit are provided in Appendix A.

3.2 PHYSIOGRAPHIC CONDITIONS

A summary of the physical settings of the proposed Project are provided in the table below with additional details in the following subsections.

Topography:	TP, USGS Tustin 7.5 Minute topographic quadrangle.
Soil/Bedrock Data:	According to EDR, nearby soils consist of predominately sandy loam, silt loam, silty clay loam, loam, and fine sandy loams. From nearby sites on the State Water Resources Control Board (SWRCB) GeoTracker online database: Soil reports or boring logs from the vicinity indicated alluvium, lake, playa, and terrace deposits, unconsolidated and semi-consolidated; mostly nonmarine, but includes marine deposits near the coast.
Estimated Depth to Groundwater/ Estimated Direction of Gradient:	Based on information presented on the GeoTracker online database, it is estimated that depth to groundwater ranges from 20–50 ft below ground surface (bgs). The groundwater down gradient is expected to be towards the northwest.
Note: Site-specific groundwater direction and depth can only be determined by conducting site-specific testing, which Stantec has not conducted.	

The Proposed project footprint is located at an elevation of approximately 70 feet above mean sea level (ft amsl). Based on the topography and existing surface conditions, surface water flows to the San Diego Creek Channel concrete-lined flood control channel located to the northeast of the intersection.

The proposed Project, at the intersection Culver Drive and Alton Parkway, is located towards the western section of the City of Irvine. This area in the City of Irvine is within a largely built out, urbanized area, and is surrounding by the Mark Daily Athletic and recreational fields to the east, Westpark plaza commercial properties to the north, San Marino Villa Apartment Homes residential area to the west, and Woodbridge residential area to the south. The environmental study area (ESA) is mostly surrounded within commercial, medium-high residential, and recreational developments, with some roadside vegetation and non-native landscaping.

3.3 REGIONAL GEOLOGY & HYDROGEOLOGY

According to the Department of Water Resources' (DWR) Bulletin 118, the proposed Project is located within the southeastern section of the Coastal Plain of Orange County Water Basin (Orange County Basin) which occupies approximately 350 square miles of the Santa Ana River Watershed. The Orange County Basin is bounded on the northwest by the Los Angeles County-Orange County line, bounded to the east by the Santa Ana Mountains and San Joaquin Hills, and bounded to the southwest by the Pacific Ocean. Water bearing formations of the Orange County basin include alluvium breaks and a deep structural depression of a thick accumulation of interbedded marine and continental sand, silt, and clay deposits (DWR 2018). Surface water recharge happens rapidly through coarser sediments deposits which are found farther away from the coastline. The folded and faulted strata within the basin show rapid transitions in sediment size. Surface water recharge to the Orange County Basin comes from the Santa Ana River flow, through infiltrations and injection into wells. The Newport-Inglewood fault-zone, Whittier fault-zone, and Norwalk fault are all zone that impede groundwater flow in this basin. Permeable alluvium breaks in erosional channels at the Newport-Inglewood fault zone, which parallels the Pacific coast and typically forms a groundwater flow barrier, create a break allowing for saltwater to flow inland. The San Diego Creek Channel, located 630 feet to the northeast of the proposed Project, provides drainage from the Newport Watershed and flows to the southwest into the Upper Newport Bay which empties into the Pacific Ocean.

Hydrogeology:

Groundwater is anticipated to flow to the northwest. Approximate depths to groundwater are recorded by EDR as an average of 23.72 ft bgs. The GeoTracker website reported depth to groundwater in the vicinity of the proposed Project to be approximately 7.19 feet in 1981 ranging from 31.93 ft to 125.10 ft bgs with a flow direction towards the northwest based on a USGS well located approximately 0.67 miles to the northeast at the westside corner of the Culver Drive and Warner Avenue intersection. The EDR report containing the well information is included in Appendix B.

4.0 SITE RECONNAISSANCE

A reconnaissance of the proposed Project footprint was performed by Ms. Emily Medler and Mr. Anthony Aguilar on November 19, 2019. Reconnaissance of private properties was limited to observations made from the public ROW. Weather was favorable at the time of the reconnaissance and no weather-related restrictions were encountered.

The purpose of the reconnaissance was to assess, within the limitations described above, potential environmental conditions within the vicinity of the proposed Project. Such conditions, to the extent visible and accessible, include storage, disposal, and treatment of solid and/or hazardous materials, storage tanks and other chemical containers, odors, pools of liquid, staining, drains, sumps, pits, ponds, lagoons, septic systems, wells, unusual soil disturbance, stressed vegetation, and electrical transformers. Photographs of the Site are included in Appendix A.

Items of Note inside the Project Footprint:

Observed improvements within the Project footprint include subsurface utilities (e.g., communication lines, telecommunication lines, and traffic signal controls), Irvine Ranch Water District (IRWD) sewer manholes and sewer lines, storm drainage systems, subsurface electrical and power lines, an electrical utility meter station, and three bus stops.

There is a possibility for the presence of ADL and LBP in the proposed Project footprint; Caltrans identifies these compounds as potential chemicals of concern.

The historical and current land use within the Project footprint suggest the possibility of weed abatement activities and herbicide constituents.

Items of Note outside the Project Footprint

The area within the ESA consists of developed land for commercial, residential, and recreational use. The potential exists for weed abatement activities and herbicide constituents, based on historical and current land use of property, adjacent to the proposed Project footprint.

Stantec observed utility signage and USA markings outside the proposed Project footprint during the field reconnaissance visit indicative that several subsurface utilities may traverse the proposed Project footprint. During the site reconnaissance visit, Stantec also observed a gas station. The gas station is a Mobil gas station located approximately 0.35 miles to the northwest of the intersection at 3765 Alton Parkway. There is a car wash associated with this gas station. Stantec also observed West Park Cleaners within the adjacent Westpark Plaza. West Park Cleaners is located at 3881 Alton Parkway #D.

Similar within the proposed Project footprint, there is a possibility for the presence of ADL and LBP outside the Project footprint within the ESA. Caltrans identifies these compounds as potential chemicals of concern.

4.1 OBSERVATIONS WITHIN THE PROPOSED PROJECT

The area within the proposed Project footprint is a developed roadway intersection. Surrounding the proposed Project footprint is commercial, recreational. and residential use lands. Of the above-mentioned improvements, the following exist within the proposed Project footprint:

- Signage;
- Subsurface utilities (e.g., communication transmission lines; high voltage power transmission lines; telecommunication lines from various companies including, but not limited to: Southern California Edison (SCE), Cox Communications, AT&T);
- Drainage culverts, sewer access points/lines, and storm drains;
- An electrical utility meter station;
- IRWD manhole covers and associated water distribution lines;
- Markings on the San Marino Villa Apartment homes corner of the intersection indicating subsurface utility lines, including "COX P/o", "COI USA", and other symbols;
- Bus Stations; southwest bound side of Culver Drive, southeast bound side of Alton Parkway, and northeast bound side of Culver Drive;
- Trees, non-native vegetation, and roadside landscaping; and,
- A concrete lined San Diego Creek Channel flowing to the northwest of the proposed Project.

4.2 OBSERVATIONS OUTSIDE THE PROPOSED PROJECT

The following sites were observed within the study area, but outside the Project footprint, as labeled on Figure 2.

Exxon Mobil Gas Station and Circle K Store Station 3765 Alton Parkway

This gas station is located within the study area, outside the Project footprint, and approximately 1,800 feet northwest of the proposed Project. The site was used agriculturally prior to development as a gas station and convenience store. A permitted underground storage tank (UST) is associated with the Circle K store. The Exxon Mobil Gas Station includes a car wash.

West Park Cleaners 3881 Alton Parkway

This dry cleaner is located within the ESA, outside the proposed Project footprint, and approximately 600 ft north of the proposed Project. The site was used agriculturally prior to development as a commercial shopping center.

Utilities and Infrastructure

Observed improvements within the ESA include signage, subsurface utilities (e.g., communication transmission lines and high voltage power transmission lines), drainage culverts, and storm drains, an electrical utility meter station, sewer manholes and sewer lines, electrical and telecommunication lines (possibly fiber optic, underground).

Stormwater Impacts

Stormwater runoff from the Culver Drive and Alton Parkway Intersection flows towards the southeast, across Culver Drive into drainage culverts or northeast into the concrete-lined San Diego Creek. Impacted stormwater runoff (e.g., oil and grease from the road) flows towards the Project footprint and into drainage culverts and the San Diego Creek. Constituents of concern (e.g., oil and grease) related to stormwater runoff may be present within shallow soils located in the proposed Project.

4.3 SITE RECONNAISSANCE METHODOLOGY

The proposed Project reconnaissance focused on observation of current conditions and observable indications of past uses and conditions that may indicate the presence of RECs. The proposed Project reconnaissance was conducted on foot and Stantec utilized the following methodology to observe the proposed Project:

- Traverse the outer proposed Project footprint boundary;
- Traverse transects across the proposed Project;
- Traverse the periphery of all structures on the proposed Project; and,
- Reconnaissance of private property was limited to observations made from the public ROW.

Weather conditions during the visit to the proposed Project were clear and sunny. There were no weather-related access restrictions encountered during the reconnaissance visit.

4.3.1 General Description

Proposed Project and Area Description:	The proposed Project entails the addition of a fourth northbound land on Culver Drive and the free right turn lane for southbound Culver Drive will be reconstructed as a standard right turn lane. The area within the proposed Project is a developed intersection, while the area outside the proposed intersection is developed public ROW, commercial, recreational, and residential used land.
Operations at the proposed Project:	The proposed Project encompasses segments along Culver Drive and Alton Parkway that include utility corridors and nearby developments that include Mark Daily Athletic Fields to the east,

	West Park Plaza to the north, San Marino Villa Apartment homes to the west, and Woodbridge residential area to the south of the widening project.
Structures, Roads, Other Improvements:	The proposed Project is bordered to the north by Westpark Plaza commercial area, to the south by Woodbridge residential homes, to the east by Mark Daily Athletic Fields for recreational use, and to the west by San Marino Villa Apartment homes. Other improvements within the proposed Project include: signage, subsurface utilities (communication transmission lines and high voltage power transmission lines, power poles), drainage culverts, and storm drains, an, an electrical utility meter station, IRWD manhole covers and associated lines, electrical and telecommunication lines (possibly fiber optic, underground), and trees and other roadside, non-native vegetation.
Estimated % of proposed Project Covered by Buildings and/or Pavement:	The proposed Project consists of developed, commercial, residential, recreational used land. Approximately 98% of proposed Project is covered with asphalt and concrete with non-native roadside vegetation and landscaping.
Observed Current proposed Project Use/Operations:	The proposed Project is currently used as an intersection for Culver Drive and Alton Parkway.
Observed Evidence of Past proposed Project Use(s):	None.
Sewage Disposal Method (and age):	None observed.
Potable Water Source:	None observed.
Electric Utility:	SCE markings for subsurface electrical lines and AT&T and Cox Co. telecommunications were observed.

4.3.2 Hazardous Substances And Petroleum Products

The following table summarizes Stantec's observations during the proposed Project reconnaissance.

Observations	Description/Location
Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14):	None observed.
Drums (≥ 5 gallons):	None observed.
Strong, Pungent, or Noxious Odors:	None detected.
Pools of Liquid:	None observed.
Unidentified Substance Containers:	None observed.
Polychlorinated Biphenyl (PCB)-Containing Equipment:	None observed.
Other Observed Evidence of Hazardous Substances or Petroleum Products:	None observed.

4.3.3 Interior Observations

The area within the proposed Project footprint and ESA is developed land, commercial, residential, and recreational used land. As such, no interior observations were made during the site reconnaissance visit.

4.3.4 Exterior Observations

Stantec made the following observations during the site reconnaissance of exterior areas of the proposed Project:

Observations	Description
On-site Pits, Ponds, or Lagoons:	None observed.
Stained Soil or Pavement:	None observed.
Stressed Vegetation:	None observed.
Waste Streams and Waste Collection Areas:	None observed.
Solid Waste Disposal:	None observed.
Potential Areas of Fill Placement:	Landscaped areas along southwest bound Culver Drive. Fill will need to be placed in order to accommodate the slight change in elevation of the acquired land.

Observations	Description
Wastewater:	None observed.
Stormwater:	Although conditions were dry at the time of the site reconnaissance conducted by Stantec on November 19, 2019, stormwater runoff from the Culver Drive and Alton Parkway Intersection would flow towards the east and south, across Culver Drive into drainage culverts or into the San Diego Creek. Constituents of concern (e.g., oil and grease) related to stormwater runoff may be present within shallow soils located in the proposed widening Project.
Wells:	None observed.
Septic Systems:	No visible evidence of a septic system was observed.
Other Exterior Observations:	None.

4.3.5 Underground Storage Tanks (USTs)/Structures

Existing USTs:	None observed.
Former USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during this Phase I ISA.
Other Underground Structures:	None observed.

4.3.6 Aboveground Storage Tanks (ASTs)

Existing ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), which would indicate the presence of ASTs, was discovered during this Phase I ISA.
Former ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), reports, or other evidence of the former presence of ASTs was discovered during this Phase I ISA.

4.4 OBSERVATIONS WITHIN ENVIRONMENTAL STUDY AREA OUTSIDE OF THE PROPOSED PROJECT FOOTPRINT

4.4.1 Adjoining Properties

4.4.1.1 Current Uses of Adjoining Properties

As viewed from the proposed Project and/or from public ROW, Stantec made the following observations about use and activities on adjoining properties:

NORTH	The adjacent area to the north consists of Westpark Plaza commercial property for dining and shopping.
SOUTH	The adjacent area to the south, is developed as a residential neighborhood, Woodbridge Residential Homes.
EAST	The adjacent site to the west, is developed as a recreational facility, Mark Daily Athletic Field.
WEST	The adjacent site to the east, is developed as a residential neighborhood, San Marino Villa Apartment Homes.

4.4.1.2 Observed Evidence of Past Uses of Adjoining Properties

Observations of adjoining properties providing indications of past use and activities, if any, are described below.

NORTH	None observed.
SOUTH	None observed.
EAST	None observed.
WEST	None observed.

4.4.1.3 Pits, Ponds or Lagoons on Adjoining Properties

As viewed from the proposed Project and/or from public ROW, Stantec made the following observations about the presence of pits, ponds and lagoons on adjoining properties:

NORTH	None observed.
SOUTH	None observed.
EAST	None observed.
WEST	None observed.

4.4.2 Observed Physical Setting

Topography of the proposed Project and Surrounding Area:	The Proposed Project footprint and surrounding areas have a general topographic gradient trending to the northwest.

4.5 INTERVIEW

As the proposed Project consists of developed public ROWs along Culver Drive and Alton Parkway, interviews were not conducted during the field assessment.

4.6 USER-PROVIDED INFORMATION

ASTM 1527-13 describes responsibilities of the User to complete certain tasks in connection with the performance of "All Appropriate Inquiries" into the proposed Project. The ASTM standard requires that the EP request information from the User on the results of those tasks because that information can assist in the identification of RECs, CRECs, HRECs, or de minimis conditions in connection with the proposed Project. Towards that end, Stantec requested that the User provide the following documents and information:

Description of Information	**Provided (Yes/ No)**	**Description and/or Key Findings**
User Questionnaire/Interview	No	
Environmental Liens or Activity Use Limitations	No	
Previous Environmental Permits or Reports Provided by User	No	
Purpose of the Phase I ISA	No	Facilitate proposed Intersection Improvements of Culver Drive and Alton Parkway.

5.0 NON-SCOPE CONSIDERATIONS

The scope of work completed was limited solely to those items in the ASTM 1527-13 standard, with the exception of the non-scope services included below.

5.1 POLYCHLORINATED BIPHENYLS (PCBS)

Electrical transformers, hydraulic equipment capacitors, fluorescent light fixtures, and similar equipment may contain PCBs in the hydraulic fluids or dielectric insulating fluids within the units. The federal Toxic Substances Control Act (TSCA) generally prohibited the domestic manufacture of PCBs after 1979. There is, however, potential that the dielectric fluid in electrical and hydraulic equipment manufactured and constructed prior to that date contains PCBs.

No pad-mounted and pole-mounted electrical transformers associated with power lines were observed within the proposed Project footprint or ESA.

5.2 LEAD-BASED PAINT (LBP)

Lead is a pliable, soft metal that is used in the construction of pipes, rods, and containers. Before 1978, lead was a common ingredient in paint because it added strength, shine and extended the life of the paint. In 1978, the Environmental Protection Agency (EPA) banned the use of lead pigments in paints used on interior and exterior residential surfaces. Lead poisoning can result from children having access to, and ingestion (by chewing) of lead-based paint covered surfaces. Inhalation of dust produced by normal oxidation, or scraping/sand-blasting of the paint, which may contain significant amounts of lead, is also a health hazard. The EPA and the Housing and Urban Development Department (EPA/HUD) action level for LBP is 0.5% dry weight. The original scope of services did not include an assessment of LBP at the proposed Project footprint.

It is possible that lead-based paint was used historically in lane striping paint along the current Culver Drive and Alton Parkway Intersection, Caltrans identifies this as a potential chemical of concern.

5.3 AERIALLY DEPOSITED LEAD (ADL)

No former reports were provided with regards to potential ADL present within the proposed Project footprint. However, ADL is likely to be present in the proposed Project ESA; Caltrans identifies ADL as a potential chemical of concern.

5.4 ASBESTOS

Asbestos can be found in many applications, including sprayed-on or blanket-type insulation, pipe wraps, mastics, floor and ceiling tiles, wallboard, mortar, roofing materials, and a variety of other materials commonly used in construction. The greatest asbestos-related human health risks are associated with friable asbestos, which is ACM that can be reduced to powder by hand

pressure. Friable asbestos can become airborne and inhaled, which has been associated with specific types of respiratory disease. The manufacturing and use of asbestos in most building products was curtailed during the late 1970s.

Stantec makes no warranty as to the possible existence or absence of inaccessible materials or to their evaluation with respect to asbestos content. Samples of suspect ACM should be collected for laboratory analysis of asbestos prior to any renovation or building demolition to be compliant with, EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations. The proposed Project does not appear to impact any built structures; however, existing guardrails (or bridges) may contain suspect ACMs (such as shims, or adhesives, etc.) and should be tested, if present, for disposal characterization and worker protection.

5.5 SOLID WASTE DISPOSAL

Other than minor amounts of wind-blown litter, no other solid waste was noted within the proposed Project; no solid waste disposal issues were noted within the proposed Project footprint.

5.6 FERTILIZER/INSECTICIDES

Although no surface staining or discolored soils were observed during the site reconnaissance visit in the ESA, there is a possibility for the presence of herbicides and weed abatement activities. The historical agricultural use of land adjacent to the Project footprint may result in the presence of residual fertilizers/pesticides/herbicide chemicals in the soil in the proposed footprint of the widening Project.

5.7 RADON

Radon is a colorless, tasteless radioactive gas with an EPA-specified action level of 4.0 PicoCuries per liter of air (pCi/L) for residential properties. Radon gas has a very short half-life of 3.8 days. The health risk potential of radon is primarily associated with its rate of accumulation within confined areas near or in the ground, such as basements, where vapors can readily transfer to indoor air from the ground through foundation cracks or other pathways. Large, adequately ventilated rooms generally present limited risk for radon exposure. The radon concentrations in buildings and homes depend on many factors, including soil types, temperature, barometric pressure, and building construction (EPA, 1993).

Stantec reviewed regional data published by the EPA (http://www.epa.gov/radon/zonemap.html) on average indoor radon concentrations in the vicinity of the proposed Project.

EPA Radon Zones (w/Average Measured Indoor Radon concentrations)		
Zone 1 – High (>4.0 pCi/L)	Zone 2 – Moderate (2 to 4 pCi/L)	Zone 3 – Low (<2 pCi/L)
Normally-occupied sub grade areas (i.e. basement apartments, offices, stores, etc.)?		
No subgrade areas occupied by personnel were observed during the site visit.		

The proposed Project is located in a Zone 3 and is considered to have low potential for radon. Based on the low potential for radon, further assessment of radon does not appear warranted.

5.8 FLOOD ZONES

Per Federal Emergency Management Agency (FEMA) records researched by Environmental Data Resources (Appendix B), the Project footprint is located within a 1% annual chance flood hazard zone. Stantec also searched the FEMA flood plain map service (FEMA, 2019), according to which, the proposed Project is located within a 100-year flood zone. The nearest surface water is the San Diego Creek, located approximately 0.12 miles to the northeast of the center of the proposed Project.

5.9 WETLANDS

Wetlands cannot be definitively identified through visual observation alone. Defensible wetland delineations require taxonomic classification of property vegetation, an investigation into the surface and subsurface hydrology of the property, and identification of hydric soils. This level of delineation is outside of the scope or work for this assessment. However, Stantec reviewed US Fish and Wildlife Service National Wetland Inventory maps (NWI) and readily available United Stated Department of Agriculture (USDA) Soil Survey reports. Information from these sources is summarized below.

Potential Wetlands Observed on proposed Project footprint:	None observed.
New Development Planned for proposed Project footprint:	Yes; redevelopment for similar end use is planned.

Wetland Inventory Maps

Map Quadrangle Name	Tustin
Wetlands Depicted on proposed Project footprint:	According to NWI, the San Diego Creek located to the 0.12 miles northeast of the proposed Project is listed as a Riverine habitat.
Wetlands Depicted on Adjoining Properties	According to NWI, no adjoining properties are considered wetlands.

Soil Survey Data

Soil Survey Report Name and Date:	STATSGO: State Soil Geographic Database.
Hydric Soils Depicted in proposed Project Vicinity:	None depicted.

6.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the proposed Project and surrounding areas, to evaluate if past uses may have resulted in RECs. Physical setting records are evaluated to determine if the physical setting may have contributed to adverse environmental conditions about the proposed Project. During the review of historical records, Stantec attempted to identify uses of the properties within the proposed Project footpring and with the ESA from the present to the Properties' first developed use. Stantec's research included the reasonably ascertainable and useful records described in this section. Stantec has reviewed the Geotracker and EDR online database files. Stantec sent responses to agencies listed in Section 5.2 on November 15, 2019, November 25, 2019 and December 30, 2019.

6.1 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS

Stantec evaluated the information listed within the database relative to potential impact to the proposed Project, assessing the potential for impacts based in part on the physical setting. As part of this process, inferences have been made regarding the likely groundwater flow direction at or near the proposed Project. Observations about the proposed Project and surrounding properties made during the site reconnaissance are provided in more detail in Section 5.

EDR was contracted to review databases maintained by various federal and state environmental agencies. The purpose of the review was to identify reported listings for the proposed Project or other sites in the vicinity. Stantec used the address of the intersection: Culver Drive and Alton Parkway for records searches where a physical address was required. The reviewed databases included federal and state lists of known or suspected contaminated sites, known handlers or generators of hazardous waste, known waste disposal facilities, and permitted underground storage tanks. The databases which were researched and the searched distances (radially) for each database, if applicable, include the following:

<u>Federal ASTM Standard</u>

- NPL, US EPA: National Priorities List, a listing of Federal Superfund sites, one mile.
- Proposed NPL, US EPA: Proposed National Priorities List, a listing of Proposed Superfund sites, one mile.
- CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System, a listing of potentially hazardous waste sites that have been reported to the US EPA, one-half mile.
- CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned, a listing of CERCLIS sites where no contamination was found, contamination was removed quickly, or contamination was not serious enough for NPL consideration, one-quarter mile.
- CORRACTS: Corrective Action Report identifies hazardous waste handlers with RCRA corrective action activity, one mile.
- RCRA: Resource Conservation and Recovery Information System includes selective information on sites which generate, transport, store or treat hazardous waste as defined by the RCRA act.

Large quantity generators (LQG), one-quarter mile; small quantity generators (SQG), one-quarter mile; treat, store, or disposal sites (TSD), one-half mile.

- ERNS: Emergency Response Notification System includes information on reported releases of oil and hazardous substances, target property only.

State ASTM Standard

- AWP: Annual Workplan Sites, a listing of known hazardous waste sites, one mile.
- CAL-SITES: The CAL-SITES database contains potential or confirmed hazardous substance release properties, one mile.
- CHMIRS: California Hazardous Material Incident Report System contains information on reported hazardous material incidents (accidental releases or spills), target property only.
- CORTESE: Hazardous Waste and Substances Sites List. The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF) and the Department of Toxic Substances Control (Cal-Sites), one-half mile.
- NOTIFY 65: Proposition 65 Records contains facility notifications about any release which could impact drinking water, one mile.
- TOXIC PITS: Toxic Pits Cleanup Act identifies sites suspected of containing hazardous substances where cleanup has not yet been completed, one mile.
- SWF/LF (SWIS): Solid Waste Land Fill Information System database consists of active, closed and inactive landfills, one-half mile.
- WMUDS/SWAT: Waste Management Unit Database includes program tracking and inventory of waste management units, one-half mile.
- LUST: Leaking Underground Storage Tank, this listing contains an inventory of reported leaking underground storage tank incidents, one-half mile.
- CA BOND EXP. PLAN: Bond expenditure plan is a site-specific expenditure plan for appropriation of Hazardous Substance Cleanup Bond Act funds, one mile.
- UST: Underground Storage Tanks. Active UST facilities gathered from local regulatory agencies, one-quarter mile.
- VCP: Voluntary cleanup program properties. Contains low threat level properties with either confirmed or unconfirmed releases, one-half mile.
- INDIAN LUST: Leaking Underground Storage Tanks on Indian land, one-half mile.
- INDIAN UST: Underground Storage Tanks on Indian land, one-quarter mile.
- CA FID UST: Facility Inventory Database contains active and inactive underground storage tank locations, one-quarter mile.
- HIST UST: Hazardous Substance Storage Container Database, a historical listing of UST sites, one-quarter mile.

Federal ASTM Supplemental

- CONSENT: Superfund (CERCLA) Consent Decrees, a listing of major legal settlements that establish responsibility and standards for cleanup at Superfund sites, one mile.
- ROD: Records of Decision documents mandate a permanent remedy at a Superfund site containing technical and health information to aid in the cleanup, one mile.
- DELISTED NPL: National Priority List Deletions, NPL sites may be deleted where no further response is appropriate, one mile.
- FINDS: Facility Index System contains both facility information and 'pointers' to other sources that contain more detail, target property only.
- HMIRS: Hazardous Materials Information Reporting System contains hazardous material spill incidents reported to DOT.
- MLTS: Material Licensing Tracking System, a listing of sites which process or use radioactive materials, target property only.
- MINES: Mines Master Index File, one-quarter mile.
- NPL LIENS: Federal Superfund Liens, the US EPA has the authority to file liens against real property when the property owner receives notification of potential liability, target property only.
- PADS: PCB Activity Database System identifies generators, transporters, commercial stores and/or brokers & disposers of PCB's, target property only.
- FUDS: Formally Used Defense Sites, a listing of FUDS properties where US Army Corps of Engineers is actively working or will take necessary cleanup actions, one-mile. Date of government version December 31, 2003.
- UMTRA: Uranium Mill Tailings Sites, one-half mile.
- INDIAN RESERV: Indian reservations that have an area equal to or greater than 640 acres, one mile.
- DOD: Department of Defense Sites, a listing of federal lands greater than or equal to 640 acres administered by the DOD, one mile.
- RAATS: RCRA Administrative Action Tracking System contains records based on enforcement actions pertaining to major violators, target property only.
- TRIS: Toxic Chemical Release Inventory System identifies facilities which release toxic chemicals to the air, water, and land in reportable quantities, target property only.
- TSCA: Toxic Substances Control Act identifies manufacturers and importers of chemical substances, target property only.
- SSTS: Section 7 Tracking Systems, a listing of registered pesticide-producing establishments, target property only.
- FTTS: Federal Insecticide, Fungicide, & Rodenticide Act/Toxic Substances Control Act Tracking system, target property only.
- US ENG CONTROLS: A listing of sites with engineering controls in place.
- US INST CONTROL: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.
- PRP: A listing of verified Potentially Responsible Parties
- NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

State or Local ASTM Supplemental

- AST: Aboveground Petroleum Storage Tank Facilities.
- CLEANERS: Dry cleaner related facilities that have EPA ID numbers, one-quarter mile.
- CA WDS: Waste Discharge System, a listing of sites which have been issued waste discharge requirements, target property only.
- DEED: List of Deed restrictions, target property only.
- SCH: School Property Evaluation Program contains Proposed and existing school sites that are being evaluated for possible hazardous materials contamination, one-quarter mile.
- EMI: Emissions Inventory Data, a listing of toxic and criteria pollutant emissions data, target property only.
- REF: Unconfirmed properties referred to another agency where contamination has not been confirmed and were determined as not requiring direct Department of Toxic Substances Control (DTSC) Site Mitigation Program action, one-quarter mile.
- NFE: Properties Needing Further Evaluation, a listing of properties suspected of being contaminated, one-quarter mile.
- CA SLIC: Spills, Leaks, Investigations and Cleanup Cost Recovery Listing of any contaminated sites with the potential to impact groundwater, one-half mile.
- HAZNET: Hazardous waste manifests, a record of hazardous waste shipments, target property only.
- CA ENVIROSTOR: The DTSC's Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Brownfields Databases

- US Brownfields: A listing of Brownfield sites.
- VCP: Voluntary Cleanup Program Properties.

The complete database listings prepared by EDR and a map showing the search area is presented in Appendix C. The findings are summarized and discussed in the following subsections.

The complete database listings (of records detailed above) prepared by EDR and a map showing the location of the search radius of the Project footprint is presented in Appendix C.

6.1.1 Listings Within the proposed Project Footprint and Environmental Study Area

The proposed Project is partially located near parcels associated with APN's 44710304, 45201204, 45206110, 44710103. Listings within the Project footprint were additionally identified in the following environmental databases searched: RCRA-LQG, RCRA-SQG, RCRA NONGEN/NLR, CPS-SLIC, CERS HAZ WASTE, HAZNET, UST, EMI, ORANGE CO. INDUSTIAL SITE, and CHMIRS. The EDR Radius Map Report is included in Appendix C.

6.1.2 RECs Identified for The Project Footprint

No listings that would constitute REC's were identified inside the proposed Project footprint.

6.1.3 RECs Identified for the Environmental Study Area Outside the Project Footprint

No listings that would constitute REC's were identified within the environmental study area.

6.1.4 Items Of Note For The Project

Within Proposed Project Footprint

- The area within the ESA consists of predominately developed land for commercial, recreational, and residential use. The historical agricultural use of the Project footprint and land adjacent to the proposed Project has the potential for the presence of pesticides, fertilizers, and herbicides in soil.

- Observed improvements outside and within the proposed Project footprint include belowground utilities (e.g., communication lines, telecommunication lines, and traffic signal controls), sewer manholes and sewer lines, storm drainage systems, underground electrical and power lines, and an electrical utility meter station.

- There is a possibility for the existence of ADL within the Proposed project footprint. A sampling investigation has not been performed to evaluate the potential for ADL within the Proposed Project footprint. This does not represent a REC for the Proposed Project footprint however, Caltrans identifies this as a potential chemical of concern, which should be evaluated for the purpose of the protection of construction worker safety and the proper characterization and disposal of soils that would be generated during the demolition, grading and excavation construction phases of the project.

- There is a possibility for the existence of lead-based paint may exist in the lane striping paint along Culver Drive and Alton Parkway, within Proposed Project footprint. A sampling investigation has not been performed to evaluate the potential for LBP in lane striping. This does not represent a REC for the Proposed project; however, Caltrans identifies this as a chemical of concern, which should be evaluated prior to the disturbance and removal of these materials during the demolition phase of the construction project.

- **Utilities and Infrastructure**

  Observed improvements along the proposed Project include signage, belowground utilities (e.g., communication transmission lines and high voltage power transmission lines), concrete-lined San Diego Creek drainage channel operated by IRWD, drainage culverts, sewer access points/lines, and storm drains, an electrical utility meter station, a high-pressure natural gas pipeline (belowground), sewer manholes and sewer lines, and underground electrical and telecommunication lines (possibly fiber optic).

- **Stormwater Impacts**

  Stormwater runoff from Culver Drive and Alton Parkway flow towards the north-northwest, across Culver Drive, and into the drainage culverts leading to the San Diego Creek drainage channel. Impacted stormwater runoff (oil and grease from the road) flows towards the proposed Project located at the intersection of Culver Drive and Alton Parkway and into drainage culverts. Constituents of concern (e.g., oil and grease) related to stormwater runoff may be present within shallow soils located within the Project footprint.

Within Environmental Study Area

- **West Park Cleaners (3881/3831 Alton Parkway)**

  Data bases: CPS-SLIC, CERS HAZ WASTE, ORANGE CO. INDUSTRIAL SITE, DRYCLEANERS, EMI, CERS, RCRA-SQG, FINDS, ECHO, RCRA NONGEN/NLR, DRYCLEANERS, EDR HIST CLEANER

  This current site is located approximately 600 feet down-gradient to the north of the proposed Project. Before its current site at 3881 Alton Parkway, West Park Cleaners originally resided at 3831 Alton Parkway in 1991. At this earlier location, this property was 1,100 ft from the proposed Project. In 1996, the cleaners moved from 3831 Alton Parkway to 3881 Alton parkway. Both locations are within the Westpark Plaza. Contaminants of concern for this site include Tetrachloroethylene and Trichloroethylene. This site was identified in Geotracker and within the EDR database.

  Violations/Incidents: This site was listed in the Geotracker database and has a case closed as of 01/05/2016. Under CERS HAZ WASTE, this site is listed as a Hazardous Waste Generator. As of 09/18/1997, this site listed as an ORANGE CO. INDUSTRIAL SITE, received a closure certification for Percholoroethylene as the chemical of concern. No additional information was reported for this listing. Under CERS; in 2016 the site had a violation for failure to properly close hazardous waste containers when not in active use. A follow up visit occurred a week later and indicated the hazardous waste (specifically waste hydrocarbon) was not properly secured. The most recent evaluation conducted on 07/24/2019 indicated the downsizing of a 55-gallon hazardous waste container to a smaller 30-gallon container. Due to the smaller size hazardous waste container no longer meeting the reportable threshold, the submittal of the Hazardous Materials Inventory/Site Map section is no longer required.

  The site has met the qualifications of the local and regional agencies. Due to its distance from the proposed Project site and lack of a reported release, this site is not considered a REC.

- **Exxon Mobil Corporation/Circle K Stores Inc (3765 Alton Parkway)**

Databases: EDR HIST AUTO, RCRA NONGEN/NLR, CERS HAZ WASTE, CERS TANKS, CHMIRS, CERS, UST, RCRA-SQG, FINDS, ECHO

This facility is located approximately 1,800 feet down-gradient to the northwest of the proposed Project location. Since 2007 this site has been identified as an auto related site, or gas station by EDR. An UST is permitted to be on this site, issued by Orange County Environmental Health. The hazardous waste on this site includes ignitable waste and total petroleum hydrocarbons (TPH). Based on distance to the Project footprint and lack of reported releases, this site is not considered a REC.

Violations/Incidents: On 07/31/2000, an incident occurred involving a surface spill of gasoline was caused by a customer drive off. No additional information was reported with this incident. On 06/24/2003, approximately 5 gallons of gasoline were spilled as the result of auto shut off failure. The spill was contained, and operations returned shortly after, once clean up commenced. On 06/02/2016 a violation was issued for failure of leak detection equipment to be located such that equipment can detect a lead at the earliest possible opportunity. This site returned to compliance on 06/30/2016. Besides the two minor releases on 07/31/2000 and 06/24/2003, various paperwork and minor violations have occurred. As of 11/29/2018 this site has remained in compliance.

The site has met the qualifications of the local and regional agencies. Due to its location 1,800 feet from the proposed Project footprint and types of releases occurred, this site is not considered a REC.

6.2 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

Stantec checked the following sources to obtain information pertaining to the proposed Project use and/or indications of RECs in connection with the proposed Project. Stantec used the address for the nearest property, 11128 Los Angeles Avenue, for records searches where a physical address was required.

6.2.1 Orange County Department of Environmental Health

Agency Name **Contact Information**	**Findings**
OCDEH	Stantec sent an FOIA request to the OCDEH on November 25, 2019 for West Park Cleaners 3881 Alton Parkway and received a response on November 27, 2019 indicating the following records had been found for the address 3881 Alton Parkway: - West Park Cleaners: Hazardous Materials and Wastes Inventory (July 24, 2018- Materials stored at this site include Hydrocarbon waste/sludge flammable liquid,

Agency Name Contact Information	Findings
	toxic [55 gallons], Petroleum Hydrocarbon Solvent flammable liquid, toxic [max 200 gallons] - Westpark Cleaners: Closure Rationale (August 28, 1997- Case # 96IC28 SARWQCB contacted by the OCHCA for concern of the presence of chlorinated volatile organic compounds PCE and TCE to cause groundwater contamination. A total of 6 soil samples, one groundwater, and a vapor risk assessment were conducted and analyzed for the site. Remedial investigation completed on September 18, 1997.

6.2.2 Orange County Fire Authority

Agency Name Contact Information	Finding
OCFA	Stantec sent an FOIA request to OCFA on December 30, 2019 and as of the date of this report has not received a response.

6.2.3 City of Irvine

Agency Name Contact Information	Finding
City of Irvine	Stantec sent an FOIA request to the City of Irvine on November 15, 2019 and received a response on November 18, 2019 indicating the following records had been found for the address 3881 Alton Parkway: - City of Irvine Certificate of Use and Occupancy (April 26, 1990, Building Permit No. 098513, Group B2 VN-Spk., Lot 16, Book 556 pgs., Tract 15-36, Use: Retail 28,070 Sq. Ft., Issued to: Irvine Retail Properties/Diversified Shopping Centers.) - City of Irvine Application for Building Permit and Record of Inspections (May 16, 1989 Westpark [Shop D] New Construction) - City of Irvine Permit Listings dated back to January 16, 1990 for Commercial Tenant Improvement PC - - 5,5,5,5: Tenant Improvement/Walls/Doors to November 6, 2018 for Mechanical Alteration/Addition Permit: Replace (3) 5-ton roof top A/C Units on Existing Pads.

6.2.4 Santa Ana Regional Water Quality Control Board (SARWQCB)

Agency Name Contact Information	Finding
SARWQCB	Stantec sent an FOIA request to SARWQCB on November 15, 2019 and received a response on December 30, 2019 indicating that an appointment could be scheduled for review. However, the files were not reasonably ascertainable within the timeframe for this report.

7.0 HISTORICAL RECORDS REVIEW

7.1 LAND TITLE RECORDS/DEEDS

Land title records and deeds were not provided by the User, and public records were not searched by Stantec.

7.2 AERIAL PHOTOGRAPHS

Stantec reviewed historical aerial photographs provided by EDR. The general type of activity on a property and land use changes can often be discerned from the type and layout of structures visible in the photographs. However, specific elements of a facility's operation usually cannot be discerned from aerial photographs alone. The following table summarizes Stantec's observations of the reviewed historical aerial photographs.

Year	Scale	Observations, proposed Project and Adjoining Properties
1938	1"=500'	Present day Culver Drive is visible on this aerial photograph as a road, the surface appears to be paved. The areas to the north, south, east, and west of Culver Drive appear to have been mostly cleared of naturally occurring vegetation, to utilize the land agriculturally. To the north of present-day Alton Parkway and Culver Drive intersection is the San Diego Creek trending east to west.
1946	1"=500'	Present day Culver Drive is visible on this aerial photograph as a two-lane road. Disturbed land is seen to the northwest of present-day intersection parallel to the San Diego Creek. Small structures are visible within the agriculturally developed area to the north.
1952	1"=500'	No significant changes in land use from the 1946 photograph are visible.
1963	1"=500'	No significant changes in land use from the 1952 photograph are visible.
1972	1"=500'	No significant changes in land use from the 1963 photograph are visible. San Diego Creek appears to be concrete lined and now flows east to northwest. Where San Diego Creek used to flow is now disturbed soil.
1977	1"=500'	Significant changes in land use from 1972 aerial photograph. Land to the east of present-day intersection has been cleared of all agricultural use. The development of Alton Parkway is seen to the southeast of Culver Drive. Residential areas have been developed to the northeast of present-day intersection, with disturbed soil south of the residential areas. Land to the north, west, and south of present-day intersection appears to still be agriculturally used land.
1985	1"=500'	Significant changes to the present-day intersection are visible. Alton Parkway is visible to the east of Culver Drive, forming a three-way junction. Residential areas are visible to the south of the present-day intersection. Directly to the east of the present-day intersection are recreational fields and what appears to be a school.

Year	Scale	Observations, proposed Project and Adjoining Properties
1989	1"=500'	Significant changes to the present-day intersection. Alton Parkway and Culver Drive intersection is now visible, with Alton Parkway trending southeast to northwest. Residential areas are visible to the west of present-day intersection. Commercial development is visible to the north of the intersection, on the northern side of San Diego Creek.
1994	1"=500'	No significant changes in land use from the 1989 aerial photograph. Commercial development is visible to the north of the present-day intersection, on the southern side of San Diego Creek. Residential areas to the west and south of present-day intersection are now fully developed.
2005	1"=500'	No significant changes in land use from the 1994 photograph are visible.
2009	1"=500'	No significant changes in land use from the 2005 photograph are visible.
2012	1"=500'	No significant changes in land use from the 2009 photograph are visible.
2016	1"=500'	No significant changes in land use from the 2012 photograph are visible.

Name of aerial photograph source: The EDR Aerial Photo Decade Package.

7.3 CITY DIRECTORIES

Stantec retained a third party to research available reverse city directories for the Project footprint, in approximately five-year intervals.

Subject/Adjoining Property	Year	Listed Occupants
Subject property	--	The project footprint has no address or parcel number due to it being an intersection.
Nearby 3875 Alton	1995	Pay Less Drug Stores
Nearby 3965 Alton	1995	Conroys Flowers
Nearby 3965 Alton Parkway	2014	Gaufree Artisan Waffle Sandwiches Automobile Club SO California
	2010	Active Ride Last Honest Pizza Inc.
	2005	Last Honest Pizza Inc. Zapata Inc. Louie Tony Cisneros Jalapenos Mexican Food Active Ride
Nearby 3875 Alton Parkway	2014	Kim Jenna S Thrifty Payless Inc. T/A Rite Aid Drug Palace Inc.
	2010	Rite Aid Drug Palace Inc.

Subject/Adjoining Property	Year	Listed Occupants
	2005	Rite Aid of California Inc.
Nearby 3877 Alton Parkway	2014	Crossroads Trading Company Massage Heights Westpark Bank America National ASSN Ortho Mattress Inc. Planet Beauty Fred Astire Dance Studio Irvine Finest Nails Albas Advanced Skin Care
	2010	Albas Advance Skin Care Finest Nails Planet Beauty Fred Astire Dance Studio Irvine Grace Unlimited CORP Ortho Mattress Inc. SUA Inc.
	2005	SUA Inc. Gallery CORP Finest Nails Carlton Card Retail Inc. Fred Astire Dance Studio Irvine Planet Beauty Albas Advance Skin Care
Nearby 3935 Alton Parkway	2014	Keys in Car Claim Jumper Restaurants LLC
	2010	Claim Jumper Restaurants LLC
	2005	Locksmith 24 Hour Claim Jumper Restaurants
Nearby 3955 Alton Parkway	2005	GMRI Inc.
Nearby 3965 Alton Parkway	2014	Premier Food Concepts LLC MOD Westpark Villa 15 Cohen Jackie L
	2010	Cohen Jackie L CJ Restaurant Group CORP Chinet Chinese Restaurant
	2005	Chinet Chinese Restaurant CJ Restaurant Group CORP Nika Inc.
Nearby 3975 Alton Parkway	2014	Opus Bank 7-Eleven
	2010	Blockbuster Inc.

Subject/Adjoining Property	Year	Listed Occupants
	2005	Blockbuster Inc.
Nearby 3995 Alton Parkway	2014	T-Mobile USA Inc. 18 8 Men's Hair & Grooming CTR Mana Concept 2Ultimate Brands Inc. Starbucks Corporation
	2010	Starbucks Corporation Mana Concept 18 8 Men's Hair & Grooming CTR T-Mobile USA Inc.
	2005	Music Broker LTD Starbucks Corporation 18 8 Men's Hair & Grooming CENT T-Mobile USA Inc.
Nearby 3825 Alton Parkway	2002	Albertsons Food & Drug
	1995	Lucky Food Centers
	1991	Floral Bakery Deli
Nearby 3831 Alton Parkway	2002	Noah's New York Bagels Big 5 Sporting Goods Store Goro Japanese Restaurant
	1995	Big Y Yardage Outlet Village Ham & Deli Irvlna Goro Japanese Restaurant
	1991	Ham Supreme Shop
Nearby 3851 Alton Parkway	2002	Housewares 9 Roundtable Pizza Lechters Jalapenos Hit or Miss
	1995	Jalapenos Hit or Miss Ginas Pizza Silk Plants & Gift Depot
	1991	Five Dollar Clothing Store
Nearby 3875 Alton Pky	2002	Hour Photo Rite Aid Pharmaoes Riteaid Express
	1995	Payless Drug Stores Irvine

Subject/Adjoining Property	Year	Listed Occupants
	1991	Prescription & Drugs Irvine Auto Paint Hardware
Nearby 3881 Alton Parkway	2002	Albas Advance Skin Care Carlton Cards Party & Gifts Gamemax Irvine Beauty Supplys Salon Kay Bee Toy Works
	1995	Mattress Discounters Irvine Irvine Nutri System Weight Loss Center Petco West Park Cleaners Carlton Cards Party & Gifts Fred Astire Dance Studio Irvine Irvine Beauty Supply & Salon
	1991	Nuti System Weight Loss Center Royale Stationers Plus Party West Park Cleaners
Nearby 3935 Alton Pky	2002	Claim Jumper Restaurant
	1995	Claim Jumper Restaurant
Nearby 3965 Alton Pky	1995	Irvine Conroys flowers Chinet Chinese Restaurant
Nearby 3975 Alton Pky	2002	Blockbuster Video
	1995	Blockbuster Video
Nearby 3995 Alton Pky	1995	C D Listening Bar Irvine Aaron Brothers Art Marts Century Program Management Inc.
Nearby 4049 Alton Pky	1995	First Christian Church of Irvine
	1991	Irvine First Christian Church
Nearby 165 Greenfield	1995	Derouin M
Nearby 169 Greenfield	1995	Zogg A

Subject/Adjoining Property	Year	Listed Occupants
Nearby 170 Greenfield	1995	Salupo Ronald and Janis
Nearby 165 Greenfield Drive	2002	09 Eroin M
Nearby 166 Greenfield Drive	1991	Realini Wallace & Norma
	1986	Nykaza Roy
Nearby 167 Greenfield Drive	2002	BRAVOMyrna
	1991	Bravo M
Nearby 168 Greenfield Drive	1986	Morris K A
Nearby 169 Greenfield Drive	2002	SHATZL
	1991	Giron Johnny
Nearby 170 Greenfield Drive	2002	C 01 NG Cynthia CHINGKory SALUPO Ronald
	1991	Salupo Ronald and Janis
Nearby 171 Greenfield Drive	2002	FLYNNRusseli
	1991	Brenn Eric & Celeste
Nearby 172 Greenfield Drive	2002	OPHILLIPSSherie
	1991	Shen Arie
	1986	De Vries John A
Nearby 1 Woodleaf	2002	OJOHNSONTorn
Nearby 2 Woodleaf	2002	DAVIS Robert
Nearby 3 Woodleaf	2002	MACDONALD Judi J h

Subject/Adjoining Property	Year	Listed Occupants
Nearby 4 Woodleaf	2002	BRUNING Leyda
Nearby 5 Woodleaf	2014	RECON SOLUTIONS
	2010	RECON SOLUTIONS
	2002	CITOManlou
Nearby 6 Woodleaf	2002	OGILLETWendy
Nearby 7 Woodleaf	2002	OGOBEYKieran
Nearby 8 Woodleaf	2002	OTAHBAZVahld
Nearby 9 Woodleaf	2014	High Ticket Items
	2002	OBDEQIKawla
	1995	Soltani Heldi
Nearby 10 Woodleaf	2014	KP Concrete & Steel INC JUNSTEEL Inc
	2002	HENSLEY ML
	1995	US Drapery Cleaners Tahbaxz Vahid Hensley Marcel Hensley Marcel Hensley ML
Nearby 11 Woodleaf	2002	DISTEFANO Michael
Nearby 12 Woodleaf	2002	OGUILLENHugo
Nearby 13 Woodleaf	2002	LEEHee J LEEHee J SAWAI GARY
	1995	Rosenberg Jeff
Nearby 14 Woodleaf	2014	COMFORT Air

Subject/Adjoining Property	Year	Listed Occupants
	2002	MA David H 0 MA David
	1995	Ma David H
Nearby 15 Woodleaf	2002	ALLANCynthra
Nearby 16 Woodleaf	2014	LAGUNA SHOES & LUGGAGE REPAIR
	2010	LAGUNA SHOES & LUGGAGE REPAIR
	2002	LEEs Young B
	1995	Lee Young B
Nearby 17 Woodleaf	2002	0 WALLERCara
Nearby 18 Woodleaf	2002	OHUANGShih
Nearby 19 Woodleaf	2002	SHELTONMike R OCARRKen
Nearby 20 Woodleaf	2002	OLEWISDrane
Nearby 21 Woodleaf	1995	Roy Dian A
Nearby 22 Woodleaf	2002	OCHAUDHRYZareen A
	1995	Kellar Julie Speaker Source The
Nearby 23 Woodleaf	2002	CORAAlbert
Nearby 24 Woodleaf	2002	ORCHINSLynn
Nearby 25 Woodleaf	2002	OKATAPSKI Laurel 00 B
Nearby 26 Woodleaf	2002	OGOLOWASSERShamn
Nearby 27 Woodleaf	2002	08 UANG Robert

Subject/Adjoining Property	Year	Listed Occupants
Nearby 28 Woodleaf	2002	LITKESandra
Nearby 29 Woodleaf	2010	MARCI CUNLIFFE
	2002	HARGROVELaura
Nearby 30 Woodleaf	2002	OKLEINSMITH Dougla
	1995	Sawyer K
Nearby 31 Woodleaf	2014	DYNASTY TAX SERVICE CHENG DYNASTY
	2010	CHENG DYNASTY EX-IRS ASSOCIATE A CORPORATI TONY CHENGY AND ASSOCIATES
	2005	ES-IRS ASSOCIATES A CORPORATI TONY CHENG AND ASSOCIATES
	2002	0 CHENG Joyce
Nearby 32 Woodleaf	2014	STENSON POWER SERVICE
	2002	0 KHANNARohhl TRACEY J
	1995	Tracey J
Nearby 33 Woodleaf	2002	0 S 10 CEEnc
Nearby 34 Woodleaf	2002	GATESWilliam
	1995	Vollrath John L
Nearby 35 Woodleaf	2002	CHU DAV Id
Nearby 36 Woodleaf	2002	MANDALDwan
Nearby 37 Woodleaf	2002	LAPALME Karen
Nearby 38 Woodleaf	2002	YAMADAJlll

Subject/Adjoining Property	Year	Listed Occupants
Nearby 39 Woodleaf	2002	OWINTRODEDons
Nearby 40 Woodleaf	2002	CHRISINGER Rebecca
Nearby 41 Woodleaf	2002	OHERRERAMargo NICHOLSON Kevin
Nearby 42 Woodleaf	2005	HABDONS SHOES INC
	2002	OMANRIOUEZJImmy
Nearby 43 Woodleaf	2002	EANSM
Nearby 44 Woodleaf	2002	0 LUKE 8 Slanley
	1995	Zarinegar Sean
Nearby 45 Woodleaf	2002	I CENOGLEBrel
Nearby 46 Woodleaf	2002	DENNIS Robart KANBALAAnil KANBALAAnil
Nearby 47 Woodleaf	2005	INSIDE TECHNOLOGY
	2002	OCHi SHOLM Eleanor
Nearby 48 Woodleaf	2002	FULLMERCarol
Nearby 49 Woodleaf	2002	COLGRENKarl 949 7 B
	1995	Colgren Karl
Nearby 50 Woodleaf	2002	REEDWendy
Nearby 51 Woodleaf	2002	OSCHREIBER Carol
Nearby 52 Woodleaf	2002	STEVENSON Allan
Nearby 53 Woodleaf	2014	BARRY KNELMAN PLANT CO

Subject/Adjoining Property	Year	Listed Occupants
	2010	BARRY KNELMAN PLANT CO
	2005	BARRY KNELMAN PLANT CO
	2002	OJAZAYERIMehradad
	1995	Velazquez Margar lta
Nearby 54 Woodleaf	2002	MILLERJUsatn C GIBSON Philip LOUIE Rick
Nearby 55 Woodleaf	2002	0 8 REENGERGRuth
Nearby 56 Woodleaf	2014	SUZANNE R MARTINEZ CPA
	2002	OZEKRIYoss l
	1995	Zekri Yossi & Einat
Nearby 57 Woodleaf	2002	ORRISCH Michell
	1995	Frisch M
Nearby 58 Woodleaf	2002	5 DUFY Robin
Nearby 59 Woodleaf	2002	LONGENBERGERR
Nearby 60 Woodleaf	2002	LIKHTERMANA
Nearby 61 Woodleaf	2002	KESLERJ KESLER
	1995	Kesler J & A
Nearby 62 Woodleaf	2002	OKOHSoo
Nearby 63 Woodleaf	2002	OROSENBryan
Nearby 64 Woodleaf	2010	BLACK MAGIC STUDIOS

Subject/Adjoining Property	Year	Listed Occupants
Nearby 65 Woodleaf	2002	OJAYOUSSIJamal
Nearby 66 Woodleaf	2002	DUVAL Patricia
Nearby 67 Woodleaf	2002	PFANNENSTIELS
	1995	Zappen J&T
Nearby 68 Woodleaf	2014	FRONTIER CONTRACTOR
	2010	FRONTIER CONTRACTOR HONGHWAN CORP A CORP
	2002	0 EHRHARDT Frank
Nearby 69 Woodleaf	2002	SHAHPrakash
Nearby 71 Woodleaf	2002	LEEKwang
Nearby 72 Woodleaf	2002	SCALOWELLMark
Nearby 73 Woodleaf	2002	MUEAATSU Jenlyn
Nearby 74 Woodleaf	2002	H AAS Michael
Nearby 75 Woodleaf	2002	MANZELVem
Nearby 76 Woodleaf	2002	KHOSROQBODNassar
Nearby 78 Woodleaf	2002	HANEY Carolyn
Nearby 84 Woodleaf	2002	GUILLIAUM David

7.4 HISTORICAL FIRE INSURANCE MAPS

Fire insurance maps were developed for use by insurance companies to depict facilities, properties, and their uses for many locations throughout the United States. These maps provide information on the history of prior land use are useful in assessing whether there may be potential environmental contamination on or near the proposed Project footprint. These maps, which have

been periodically updated since the late 19th century, often provide valuable insight into historical proposed Project uses.

Stantec contracted with a third party to search for copies of historical fire insurance maps covering the subject and immediately adjacent properties. The Sanborn® Map Search Report reported that the area of the proposed Project is an unmapped property.

7.5 HISTORICAL TOPOGRAPHIC MAPS

Stantec obtained and reviewed historical topographic maps to help identify past proposed Project footprint usage and areas of potential environmental concern.

The United States Geological Survey 7.5-Minute Topographic Maps of the Tustin, California Quadrangle (scale 1:24,000) was reviewed to identify local and regional physiographic features in the vicinity of the proposed Project footprint (Figure 1). Based on our review of these data, the proposed Project is located at an elevation of approximately 65 to 75 ft msl, and the general topographic gradient in the vicinity is to the northwest.

The following table summarizes the maps reviewed and our observations.

Year	Scale	Observations, proposed Project and Adjoining Properties
1896	1:62,500	Based on the scale, no details regarding specific development of the proposed Project were observed. No structures of indicators of potential RECs were presented on the map.
1901	1:62,500	This map provides little detail about the proposed Project area. Two wells are depicted south and south east of the present-day intersection.
1902	1:125,000	
1932	1:31,680	Culver Road (present day Culver Drive) is presented on this map. Perpendicular to Culver Road is the San Diego Creek to the north, stretching from east to west. The two wells depicted in earlier maps are no longer present.
1935	1:31,680	
1942	1:50,000	Agricultural areas are distinguished to the north, east, and south east of the present-day intersection. The San Diego Creek is depicted to the north of present-day intersection. San Diego Creek tie-in is depicted to the south of present-day intersection.
1948	1:24,000	Buildings and three, large circular features appear. on the map approximately 1.5-miles to the northwest of the present-day intersection. These circular features are considered likely to be water tanks or reservoirs.

Year	Scale	Observations, proposed Project and Adjoining Properties
1950	1:24,000	This map provides little detail of the proposed Project footprint and the ESA. Agricultural areas are no longer distinguished on this map.
1965	1:24,000	Multiple wells are presented on this map; however, only one well (Well 72) is depicted within the proposed Project area. A gaging station is also presented to the east of the proposed Project, along the San Diego Creek.
1972	1:24,000	On this map, Interstate (I)-405 is presented to the south of the proposed Project. Buildings and residential areas are depicted on this map, however none of which are within the proposed Project. Drainage channels, northeast of the proposed Project, are shown on this map, as well.
1981	1:24,000	This map presents further development of residential and commercial areas around the proposed Project. Present day Alton Parkway is depicted as an “Under Construction” street.
2012	1:24,000	This map provides little detail of the proposed Project footprint and ESA. All surrounding residential and commercial streets appear to be developed to their current conditions.

Name of maps and source: The EDR Historical Topographic Map Report

7.6 OTHER HISTORICAL SOURCES

No other historical sources were researched.

8.0 POTENTIAL FOR VAPOR INTRUSION

Consideration of the migration of hazardous substances and petroleum products in all phases including solid, liquid, or vapor is required by the ASTM E1527-13 standard. Stantec used the process and search radius criteria described in ASTM E2600-15 to evaluate for potential release sites that have potential to impact the proposed Project (i.e., a potential Vapor Encroachment Condition [VEC]).

As presented below, analysis of the potential for onsite or offsite releases to have affected the proposed Project via migration through soil, groundwater or soil vapor was performed with consideration given to media affected, proposed use of the proposed Project, distance from the proposed Project, remedial actions taken, type of contaminants, subsurface conditions, and location of the source relative to groundwater gradient.

Based on the lack of release sites within the ASTM E2600-15 search radius, VECs are not considered to represent a risk for the proposed Project.

9.0 EVALUATION

This section provides a summary overview of or Findings, Opinions, and Conclusions.

9.1 FINDINGS AND OPINIONS

Information gathered from reviews of existing data review and a proposed Project inspection was evaluated to determine if RECs are present in connection with the proposed Project. Based on this information, Stantec made the following findings and developed the following opinions.

Finding 1: There is a possibility of ADL within the proposed Project footprint.

Opinion 1: A sampling investigation has not been performed to evaluate the potential for ADL within the proposed Project footprint. This does not represent a REC for the proposed Project footprint; however, Caltrans identifies this as a potential chemical of concern.

Finding 2: The area within the ESA consists of predominately developed land for commercial, recreational, and residential use. According to available records, aerial photographs, and topographic maps the historical agricultural use of the Project footprint and land adjacent to the proposed Project has the potential for the presences of weed abatement and agricultural chemicals in soils. In addition, there is the potential for weed abatement activities to have been conducted along Culver Drive and Alton Parkway, which could result in the potential presence of herbicides in shallow soils within the project footprint.

Opinion 2: The historical agricultural use and current landscaping activities of land adjacent to the Project footprint and potential weed abatement and agricultural chemicals within the Project footprint may have resulted in the potential presence of pesticides fertilizers and herbicide chemicals in shallow soil within the proposed Project footprint.

Finding 3: Observed improvements outside and within the proposed Project include belowground utilities (e.g., communication lines, telecommunication lines, and traffic signal controls) IRWD storm drainage system, sewer manholes and sewer lines, storm drainage systems, underground electrical and power lines, and an electrical utility meter station.

Opinion 3: Although these wells/features/infrastructure and underground utilities do not represent a REC for the proposed Project, it is recommended that potential underground utilities in the vicinity are located prior to the initiation of construction activities.

Finding 4: Stormwater runoff from Culver Drive and Alton Parkway flows northwest and southeast from the center divider on Culver Drive into storm drainage channels to the San Diego Creek Channel. Impacted stormwater runoff (oil and grease from the road) flows towards the proposed Project located at the intersection of Culver Drive and Alton parkway into the drainage culverts of the San Diego Creek Channel.

Opinion 4: Constituents of concern (e.g., oil and grease) related to stormwater runoff may be present within shallow soils located in the improvements project proposed Project footprint and are considered as an item of note, which warrants further evaluation to protect construction worker safety and the proper characterization and disposal of soils during the construction phase of the project.

Finding 5: Observed approximately 1,800 feet from the proposed Project footprint is a Circle K/Exxon Mobil gas station. There is a car wash in this gas station. Two minor releases are associated with this property.

Opinion 5: Due to its location 1,800 feet from the Project footprint and lack of major TPH releases, this site is considered an item of note for the proposed Project. No further investigation to be performed. The site is not considered to represent a concern for the proposed Project

Finding 6: Observed approximately 600 feet from the proposed Project footprint is West Park Cleaners. This property was identified by Geotracker and EDR database. No releases were reported with this site.

Opinion 6: Due to the lack of releases, this property does not warrant further investigation nor testing for tetrachloroethylene and trichloroethylene. The site is not considered to represent a concern for the proposed Project

Finding 7: There is a possibility for the existence of lead-based paint may exist in the lane striping paint along Culver Drive and Alton Parkway, within proposed Project footprint.

Opinion 7: A sampling investigation has not been performed to evaluate the potential for LBP in lane striping. This does not represent a REC for the proposed Project; however, Caltrans identifies this as a chemical of concern, which warrants further evaluation based on the demolition and removal of these materials during the construction phase of the project.

9.2 DATA GAPS

The federal AAI rule [40 CFR 312.10(a)] and ASTM E1527-13 identify a “data gap” as the lack or inability to obtain information required by the standards and practices of the rule despite good faith efforts by the EP or the User.

Any data gaps resulting from the Phase I ISA described in this report are listed and discussed below.

Gap	Discussion
Deletions or Exceptions From Scope of Work Referenced in Section 1.4:	None.
Weather-Related Restrictions To Site Reconnaissance:	None.
Facility Access Restrictions to Site Reconnaissance:	None.
Other Site Reconnaissance Restrictions:	None.
Data Gaps From Environmental Records Review:	Not all local agencies responded within the time frame for this report and that data was thus not reasonably ascertainable. However, this is not anticipated to impact the EPs ability to identify RECs for the Project
Data Gaps From Historical Records Review:	None.
Data Gaps From Interviews:	Iinterviews were not conducted but are not considered to impact the evaluation of potential RECs.
Other Data Gaps:	None.

9.3 CONCLUSIONS/RECOMMENDATIONS

CONCLUSIONS

This ISA was prepared on behalf of the City of Irvine, Department of Transportation, to support proposed construction improvements to the intersection of Culver Drive and Alton Parkway in Irvine, Orange Country, California (Figure 1).

The proposed Project involves the addition of a fourth northbound through lane on Culver Drive and the free right turn lane for south bound Culver Drive will be reconstructed as a standard right turn lane. Minor acquisition of existing City of Irvine permanent ROW on the southeast corner of the intersection is required. This ISA addresses an area within the proposed Project and an ESA extending 0.5-miles around the proposed Project Footprint.

The area within the ESA consists of predominately developed land for commercial, recreational, and residential use. The historical agricultural use of the Project footprint and land adjacent to the proposed Project has the potential for the presence of pesticides, fertilizers and herbicides in soil.

Observed improvements within the proposed Project footprint include subsurface utilities (e.g., communication lines, telecommunication lines, and traffic signal controls), IRWD sewer manholes and sewer lines, storm drainage systems, subsurface electrical and power lines, an electrical utility meter station, and three bus stops. All utilities should be mapped and clearly marked prior to the implementation of any widening construction activities.

Based on review of the EDR well report (Appendix B), there is a USGS well located outside the project footprint, but within the 0.5-mile radius ESA. This well was not observed during the site reconnaissance. This well is located approximately 2,137 ft to the northeast of the proposed Project along Cardiff which runs parallel to Culver Drive. According to EDR, no information has been reported on this well.

This assessment has revealed no RECs in connection with the proposed Project.

The following items of note were identified for the proposed Project during this ISA:

- There is a possibility for the presence of ADL and LBP in the proposed Project, Caltrans identifies these compounds as potential chemicals of concern.
- There is a possibility for the presence of fertilizer and herbicides constituents in the proposed Project, based on historical and current land use within and adjacent to the proposed Project.
- Stantec observed utility signage and USA markings during the field reconnaissance visit indicative that several underground utilities traverse the proposed Project.
- West Park Cleaners is located approximately 600 feet from the Project footprint. Contaminants of concern include PCE and TCE. However due to the lack of releases associated with this property, this site does not constitute concern for the proposed Project.
- Circle K Stores/Exxon Mobil Gas Station is location approximately 1,800 feet from the Project footprint. There are two minor spills, less than five gallons documented with this property. As a result, this site does not constitute concern for the proposed Project.

RECOMMENDATIONS

Based on the completion of this ISA, Stantec recommends the completion of a limited Phase II Environmental Site Assessment (Phase II ESA) in the area of the proposed Project. The purpose of the assessment will be used to evaluate the safe removal and disposal of construction debris and soil generated during the construction phase of the project (waste characterization and profiling), as well as evaluate construction worker health and safety considerations for the project.

The assessment will include the evaluation of the potential presence of the following constituents of concern in soil:

- Presence of ADL: Shallow soil samples should be collected in the proposed Project areas and analyzed for Total (CAM 17) Metals by EPA Test Method 6010B. Additional solubility testing (i.e., Soluble Threshold Limit Concentration [STLC] and Toxic Characteristic Leaching Procedure [TCLP] lead) by EPA Test Method should be conducted as necessary based on the results of the initial total metals results;

- Presence of Pesticide/Herbicides: Shallow soil samples collected in the proposed Project areas should be collected and analyzed for Pesticides/Herbicides by EPA Test Method 8080/8081A;

- pH: Select soil samples from the proposed Project areas will also be submitted for pH analysis by EPA Test Method 9045D; and

- Other: Subject to conditions encountered during the Phase II ESA investigation in the proposed Project (i.e., the presence of any stained soil/potential oil and grease from stormwater runoff), additional testing of soil may be conducted.

All analytical testing of soil samples shall be conducted by a State of California Certified Laboratory and Chain-of-Custody documentation.

10.0 REFERENCES

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Designation: E 1527-13, November 2013.

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U.S. Environmental Protection Agency (EPA), 2005, All Appropriate Inquiry Final Rule

U. S. Environmental Protection Agency (EPA), 1993, USEPA Map of Radon Zones Throughout United States, Document No. EPA-402-R-93-071.

Websites:

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https://geotracker.waterboards.ca.gov/map/?global_id=SL208653951

http://hwts.dtsc.ca.gov/report_list.cfm

http://www.epa.gov/enviro/

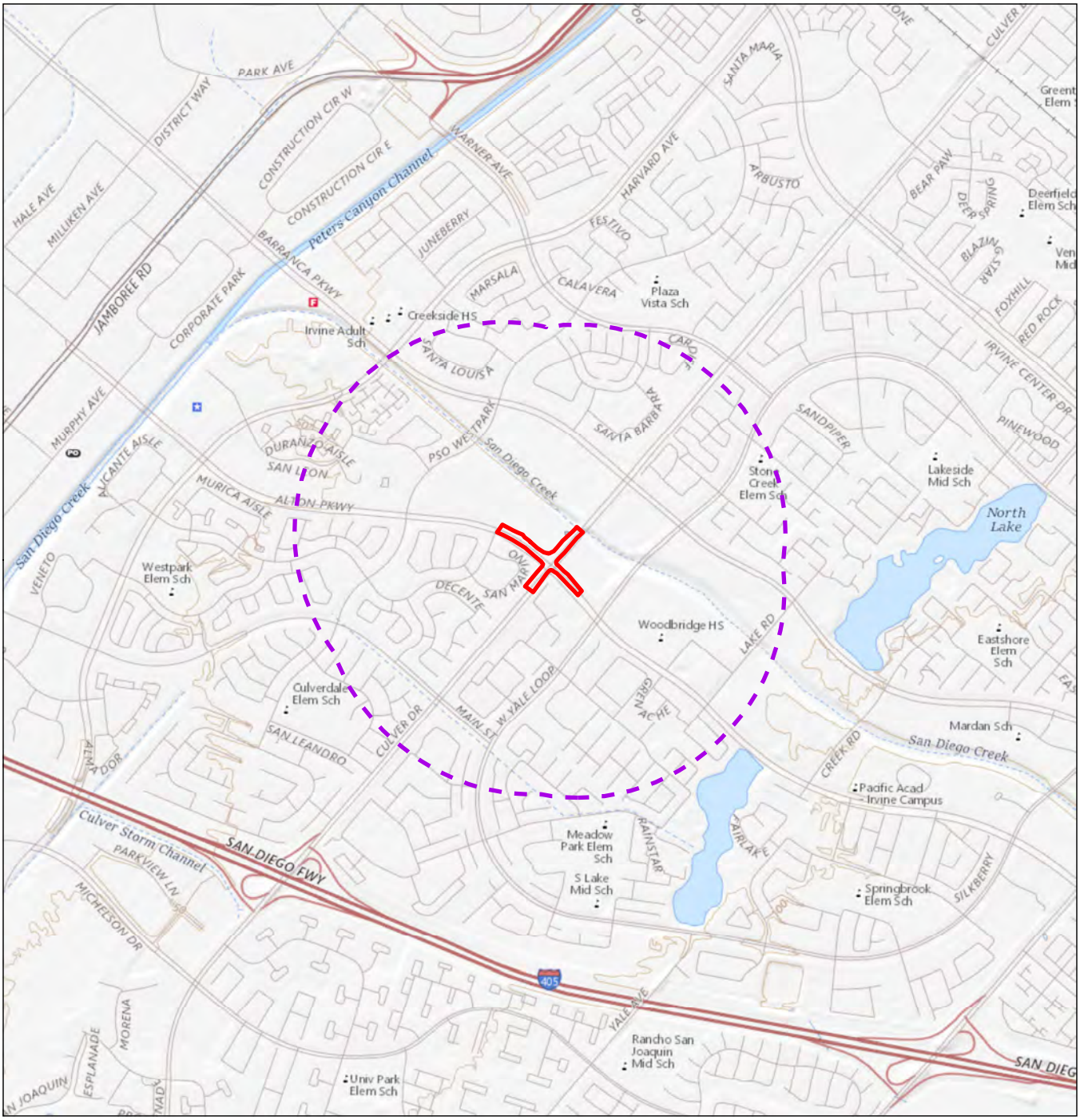
https://www.fws.gov/wetlands/data/Mapper.html

http://www.nrc.uscg.mil/pls/htmldb/f?p=109:1:587700253356660

http://www.cdph.ca.gov/healthinfo/environhealth/Documents/Radon/CaliforniaRadonDatabase.pdf

http://maps.conservation.ca.gov/doms/doms-app.html

FIGURES



Project Boundary
Environmental Study Area (0.5 Mile)

0 0.25 0.5 Miles
(At original document size of 8.5x11)
1:24,000

N

Stantec

Project Location
Irvine, California

Prepared by DL on 2019-12-20
TR by
IR by

Client/Project
City of Irvine
Alton Parkway and Culver Drive
Intersection Improvement Project

2042557300

Figure No.
1

Title
Location Map

Notes
1. Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
2. Data Sources: Stantec 2019.
3. Background: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National

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- Project Boundary
- Environmental Study Area (0.5 Mile)
- Bus Stop
- Storm Drain
- Traffic Signals
- Underground Utilities
- Unknown

0 0.055 0.11 Miles

(At original document size of 8.5x11)
1:5,456

N

Stantec

Project Location
Irvine, California

Prepared by DL on 2019-11-25
TR by
IR by

Client/Project
City of Irvine
Alton Parkway and Culver Drive
Intersection Improvement Project

2042558200

Figure No.
2

Title
Site Map

Notes
1. Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
2. Data Sources: Stantec 2019.
3. Background: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

V:\2042\active\2042558200\05_report_deliv\dwgs_design\GIS\MXD\ISA MXDs\ISA Figure 2.mxd Revised: 2020-01-06 By: dalaw

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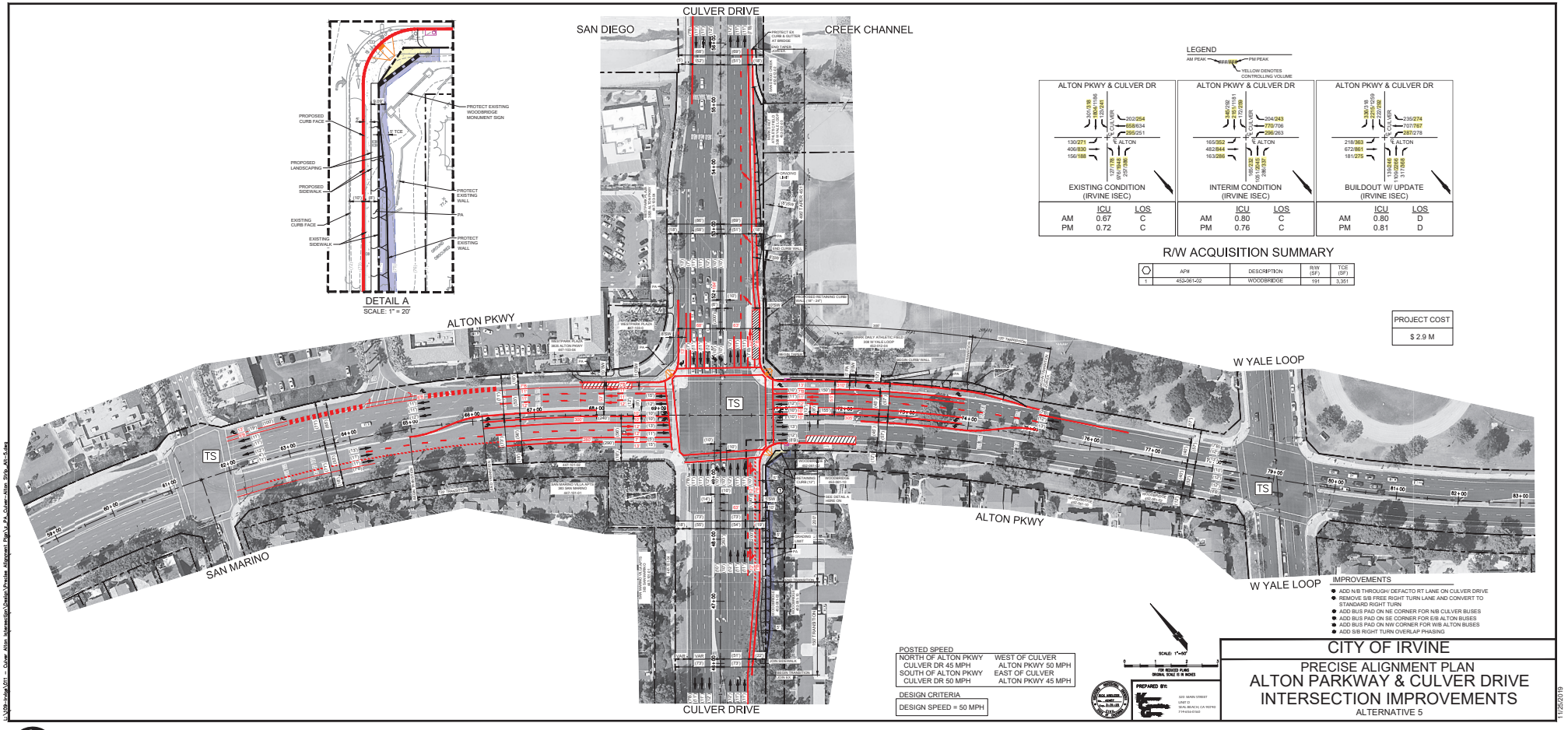

Stantec

LEGEND

- PROPOSED CURB
- PROPOSED SIDEWALK
- PROPOSED RETAINING CURB/WALL
- EXISTING RIGHT-OF-WAY
- EXISTING PARCEL LINE
- PROPOSED TCE
- PROPOSED STRIPING
- TS — TRAFFIC SIGNAL MODIFICATION
- 255-432-20 — ASSESSOR PARCEL NUMBER
- PA — PROPOSED PLANTING AREA
- (50.00') — EXISTING DIMENSION
- 50' — PROPOSED CURB DIMENSION
- CB — PROPOSED CATCH BASIN
- PROPOSED BUS PAD
- PROPOSED SIDEWALK
- PROPOSED TCE
- PROPOSED R/W ACQUISITION

Project Location
Irvine, California

Prepared by DL on 2019-12-30
TR by
IR by

Client/Project
2042558200

City of Irvine
Alton Parkway and Culver Drive
Intersection Improvement Project

Figure No.
3

Title
Preliminary Engineering Plan

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Appendix A PHOTOGRAPHS OF THE PROPOSED PROJECT & VICINITY

Photographs of the Property and Vicinity
Site Name: Culver Drive and Alton Parkway Intersection Improvements
Irvine, CA 92604
Photographer: **Emily Medler, Stantec Consulting Services Inc.**
Date: 11/19/2019

Photo #1 Looking south at the Culver Drive/Alton Parkway Intersection with Woodbridge homes to the south of the intersection along southeast bound side of Alton Parkway and northeast bound side of Culver Drive. An electrical utility meter can be seen.

Photo #2 Looking southeast at Culver Drive/Alton Parkway intersection with San Marino Apartment homes on the southwest bound side of Culver Drive. Mark Daily Recreational fields can be see on the northwest bound side of Alton Parkway.

Photo #3 Looking north at the Culver Drive/Alton Parkway Intersection with Westpark Plaza on the southwest bound side of Culver Drive.

Photo #4 Looking northwest at Culver Drive/Alton Parkway Intersection with Westpark Plaza along southwest bound Culver Drive and northwest bound Alton Parkway.

Photo #5 Orange County bus stop along northeast bound Culver Drive.

Photo #6 Orange County bus stop along southwest bound Culver Drive.

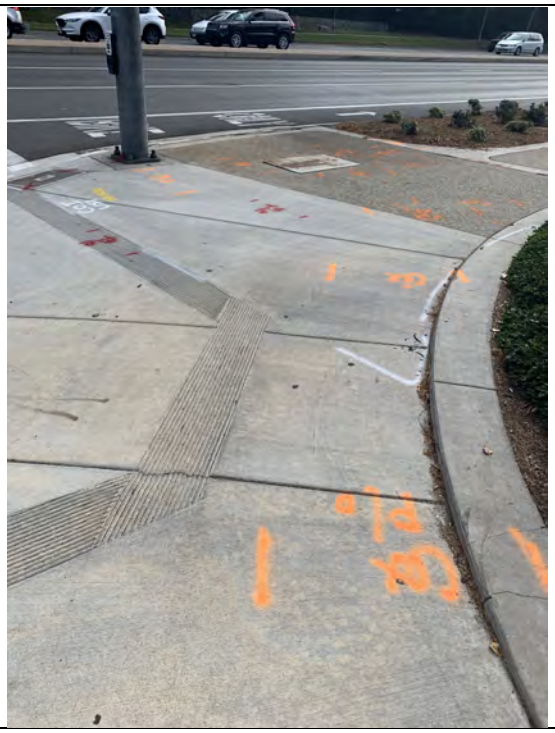

Photo #7 Identified Utilities markings on the corner of southwest bound Culver Drive and northwest bound Alton Parkway.

Photo #8 Looking northwest along Alton Parkway at indicator of SoCal Edison high voltage electrical lines

Photo #9 Looking southwest bound along Culver Drive at the concrete-lined San Diego Creek Channel flowing to the north/northwest.

Photo #10 Looking northwest at the Mobil gas station/Circle K with the intersection of Alton Parkway and Paseo Westpark in the background

Appendix B EDR REPORT

Culver Drive and Alton Parkway
Culver Drive and Alton Parkway
Irvine, CA 92604

Inquiry Number: 5869999.5
November 14, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
2010	EDR Digital Archive	-	X	X	-
2005	EDR Digital Archive	-	X	X	-
2002	Haines Company	-	X	X	-
2001	Pacific Telephone	-	-	-	-
1997	Pacific Telephone	-	-	-	-
1995	Pacific Bell	-	X	X	-
1992	Pacific Bell	-	-	-	-
1991	Pacific Bell	-	X	X	-
1986	Pacific Bell	-	X	X	-
1980	Pacific Telephone	-	-	-	-
1975	Luskey Brothers & Co., Inc.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1971	Luskey Brothers Co., Inc.	-	-	-	-
1970	Ross Publications	-	-	-	-
1966	Pacific Telephone	-	-	-	-
1965	Luskey Brothers	-	-	-	-
1961	Luskey Brothers & Co.,	-	-	-	-
1960	Unknown	-	-	-	-
1956	Luskey Brothers & Co., Inc.	-	-	-	-
1955	The Pacific Telephone and Telegraph Co.	-	-	-	-
1952	Luskeys Directory Service Co.	-	-	-	-
1950	West Directory Co.	-	-	-	-
1946	Southern California Telephone Co.	-	-	-	-
1945	McCutcheon & Bragonier	-	-	-	-
1941	Southern California Telephone Co.	-	-	-	-
1936	Western Directory Co.	-	-	-	-
1930	Western Directory Co.	-	-	-	-
1926	Pacific Telephone	-	-	-	-
1925	Western Directory Co.	-	-	-	-
1922	Kaasen Directory Co.	-	-	-	-
1921	Western Directory Co.	-	-	-	-
1920	Santa Ana Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Culver Drive and Alton Parkway
Irvine, CA 92604

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

ALTON

3875 ALTON

Year	Uses	Source
1995	Pay Less Drug Stores	Pacific Bell

3965 ALTON

Year	Uses	Source
1995	CONROYS FLOWERS	Pacific Bell

Alton Pkwy

3851 Alton Pkwy

Year	Uses	Source
2014	GAUFREE ARTSAN WFFLE SNDWICHES	EDR Digital Archive
	AUTOMOBILE CLUB SO CALIFORNIA	EDR Digital Archive
2010	ACTIVE RIDE	EDR Digital Archive
	LAST HONEST PIZZA INC	EDR Digital Archive
2005	LAST HONEST PIZZA INC	EDR Digital Archive
	ZAPATA INC	EDR Digital Archive
	LOUIE TONY CISNEROS	EDR Digital Archive
	JALAPENOS MEXICAN FOOD	EDR Digital Archive
	ACTIVE RIDE	EDR Digital Archive

3875 Alton Pkwy

Year	Uses	Source
2014	KIM JENNA S	EDR Digital Archive
	THRIFTY PAYLESS INC T/A	EDR Digital Archive
	RITE AID DRUG PALACE INC	EDR Digital Archive
2010	RITE AID DRUG PALACE INC	EDR Digital Archive
2005	RITE AID OF CALIFORNIA INC	EDR Digital Archive

3877 Alton Pkwy

Year	Uses	Source
2014	CROSSROADS TRADING COMPANY	EDR Digital Archive

FINDINGS

3881 Alton Pkwy

Year	Uses	Source
2014	MASSAGE HEIGHTS WESTPARK	EDR Digital Archive
	BANK AMERICA NATIONAL ASSN	EDR Digital Archive
	ORTHO MATTRESS INC	EDR Digital Archive
	PLANET BEAUTY	EDR Digital Archive
	FRED ASTIRE DNCE STUDIO IRVINE	EDR Digital Archive
	FINEST NAILS	EDR Digital Archive
	ALBAS ADVANCE SKIN CARE	EDR Digital Archive
2010	ALBAS ADVANCE SKIN CARE	EDR Digital Archive
	FINEST NAILS	EDR Digital Archive
	PLANET BEAUTY	EDR Digital Archive
	FRED ASTIRE DNCE STUDIO IRVINE	EDR Digital Archive
	GRACE UNLIMITED CORP	EDR Digital Archive
	ORTHO MATTRESS INC	EDR Digital Archive
	SUA INC	EDR Digital Archive
2005	SUA INC	EDR Digital Archive
	GALLERY CORP	EDR Digital Archive
	FINEST NAILS	EDR Digital Archive
	CARLTON CARDS RETAIL INC	EDR Digital Archive
	FRED ASTIRE DNCE STUDIO IRVINE	EDR Digital Archive
	PLANET BEAUTY	EDR Digital Archive
	ALBAS ADVANCE SKIN CARE	EDR Digital Archive

3935 Alton Pkwy

Year	Uses	Source
2014	KEYS IN CAR	EDR Digital Archive
	CLAIM JUMPER RESTAURANTS LLC	EDR Digital Archive
2010	CLAIM JUMPER RESTAURANTS LLC	EDR Digital Archive
2005	LOCKSMITH 24 HOUR	EDR Digital Archive
	CLAIM JUMPER RESTAURANTS	EDR Digital Archive

3955 Alton Pkwy

Year	Uses	Source
2005	GMRI INC	EDR Digital Archive

3965 Alton Pkwy

Year	Uses	Source
2014	PREMIER FOOD CONCEPTS LLC	EDR Digital Archive
	MOD WESTPARK VILLA 15	EDR Digital Archive

FINDINGS

Year	Uses	Source
2014	COHEN JACKIE L	EDR Digital Archive
2010	COHEN JACKIE L	EDR Digital Archive
	CJ RESTAURANT GROUP CORP	EDR Digital Archive
	CHINET CHINESE RESTAURANT	EDR Digital Archive
2005	CHINET CHINESE RESTAURANT	EDR Digital Archive
	CJ RESTAURANT GROUP CORP	EDR Digital Archive
	NIKA INC	EDR Digital Archive

3975 Alton Pkwy

Year	Uses	Source
2014	OPUS BANK	EDR Digital Archive
	7-ELEVEN	EDR Digital Archive
2010	BLOCKBUSTER INC	EDR Digital Archive
2005	BLOCKBUSTER INC	EDR Digital Archive

3995 Alton Pkwy

Year	Uses	Source
2014	T-MOBILE USA INC	EDR Digital Archive
	18 8 MENS HAIR & GROOMING CTR	EDR Digital Archive
	MANA CONCEPT	EDR Digital Archive
	2ULTIMATE BRANDS INC	EDR Digital Archive
	STARBUCKS CORPORATION	EDR Digital Archive
2010	STARBUCKS CORPORATION	EDR Digital Archive
	MANA CONCEPT	EDR Digital Archive
	18 8 MENS HAIR & GROOMING CTR	EDR Digital Archive
	T-MOBILE USA INC	EDR Digital Archive
2005	MUSIC BROKER LTD	EDR Digital Archive
	STARBUCKS CORPORATION	EDR Digital Archive
	18 8 MENS HAIR & GROOMING CENT	EDR Digital Archive
	T-MOBILE USA INC	EDR Digital Archive

ALTON PKY

3825 ALTON PKY

Year	Uses	Source
2002	ALBERTSONS	Haines Company
	FOOD&DRUG	Haines Company
1995	LUCKY FOOD CENTERS	Pacific Bell
	Irvine	Pacific Bell
1991	Floral	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Bakery Deli	Pacific Bell
	Irvine	Pacific Bell

3831 ALTON PKY

Year	Uses	Source
2002	BAGELS	Haines Company
	NOAHSNEWYORK	Haines Company
	BIG 5 SPORTINGODS	Haines Company
	GORORESTAURANT	Haines Company
1995	Big Y Yardage Outlet	Pacific Bell
	Village Ham & Deli	Pacific Bell
	Irvlna	Pacific Bell
	Goro Japanese Restaurant	Pacific Bell
1991	Ham Supreme Shop	Pacific Bell

3851 ALTON PKY

Year	Uses	Source
2002	HOUSEWARES 9 ROUNDTABLE PIZZA	Haines Company
	LECHTERS	Haines Company
	JALAPENOS	Haines Company
	HIT OR MISS	Haines Company
1995	Jalapenos	Pacific Bell
	Hit Or Miss	Pacific Bell
	Ginas Pizza	Pacific Bell
	Silk Plants & Gift Depot	Pacific Bell
1991	Five Dollar Clothing Stores	Pacific Bell

3875 ALTON PKY

Year	Uses	Source
2002	HOUR PHOTO RITE AID PHARMAOES	Haines Company
	RITEAID EXPRESS	Haines Company
1995	Pay Less Drug Stores	Pacific Bell
	Irvine	Pacific Bell
1991	Prescription & Drugs	Pacific Bell
	Jnformation	Pacific Bell
	Camera & Sports	Pacific Bell
	Irvine	Pacific Bell
	Auto Paint Hardware	Pacific Bell

FINDINGS

3881 ALTON PKY

Year	Uses	Source
2002	ALBAS ADVANCESKIN	Haines Company
	CARE CARLTON CARDS	Haines Company
	PARTY&GIFTS GAMEMAX	Haines Company
	IRVINEBEAUTY	Haines Company
	SUPPLYSSALON KAY BEE TOY WORKS	Haines Company
1995	Mattress Discounters	Pacific Bell
	Irvine	Pacific Bell
	Irv Ine	Pacific Bell
	Nutri System Weight Loss Center	Pacific Bell
	Petco	Pacific Bell
	West Park Cleaners	Pacific Bell
	Carlton Cards Party & Gifts	Pacific Bell
	Fred Astaire Dance Studio Irvine	Pacific Bell
	Irvine Beauty Supply & Salon	Pacific Bell
1991	Nutn System Weight Loss Center	Pacific Bell
	Royale Stationers Plus Party	Pacific Bell
	West Park Cleaners	Pacific Bell

3935 ALTON PKY

Year	Uses	Source
2002	CLAIM JUMPER	Haines Company
	RSTRNT	Haines Company
1995	Claim Jumper Restaurant	Pacific Bell

3955 ALTON PKY

Year	Uses	Source
2002	OUVEGARDENREST	Haines Company

3965 ALTON PKY

Year	Uses	Source
1995	Irvine	Pacific Bell
	CONROYS FLOWERS	Pacific Bell
	Chlnet Chinese Restaurant	Pacific Bell

3975 ALTON PKY

Year	Uses	Source
2002	BLOCKBUSTER VIDEO	Haines Company
1995	Blockbuster Video	Pacific Bell

FINDINGS

3995 ALTON PKY

Year	Uses	Source
1995	C D Listening Bar	Pacific Bell
	Irvine	Pacific Bell
	AARON BROTHERS ART MARTS	Pacific Bell
	Century Program Management Inc	Pacific Bell

4049 ALTON PKY

Year	Uses	Source
1995	First Christian Church Of Irvine	Pacific Bell
1991	Irvine First Christian Church	Pacific Bell

GREENFIELD

165 GREENFIELD

Year	Uses	Source
1995	Derouin M	Pacific Bell

169 GREENFIELD

Year	Uses	Source
1995	Zogg A	Pacific Bell

170 GREENFIELD

Year	Uses	Source
1995	Salupo Ronald & Janis	Pacific Bell

GREENFIELD DR

165 GREENFIELD DR

Year	Uses	Source
2002	09 EROIN M	Haines Company

166 GREENFIELD DR

Year	Uses	Source
1991	Realini Wallace & Norma	Pacific Bell
1986	Nykaza Roy	Pacific Bell

167 GREENFIELD DR

Year	Uses	Source
2002	BRAVOMyrna	Haines Company
1991	Bravo M	Pacific Bell

FINDINGS

168 GREENFIELD DR

Year	Uses	Source
1986	Morris K A	Pacific Bell

169 GREENFIELD DR

Year	Uses	Source
2002	SCHATZL	Haines Company
1991	Giron Johnny	Pacific Bell

170 GREENFIELD DR

Year	Uses	Source
2002	C 01 NG Cynthia	Haines Company
	CHINGKory	Haines Company
	SALUPO Ronald	Haines Company
1991	Salupo Ronald & Janis	Pacific Bell

171 GREENFIELD DR

Year	Uses	Source
2002	FLYNNRusseli	Haines Company
1991	Brenn Eric & Celeste	Pacific Bell

172 GREENFIELD DR

Year	Uses	Source
2002	OPHILLIPSSherie	Haines Company
1991	Shen Arie	Pacific Bell
1986	De Vries John A	Pacific Bell

Woodleaf

1 Woodleaf

Year	Uses	Source
2014	TORRI K JOHNSON CPA	EDR Digital Archive

WOODLEAF

1 WOODLEAF

Year	Uses	Source
2002	OJOHNSONTorn	Haines Company

2 WOODLEAF

Year	Uses	Source
2002	DAVIS Robert	Haines Company

FINDINGS

3 WOODLEAF

Year	Uses	Source
2002	MACDONALDJudi J h	Haines Company

4 WOODLEAF

Year	Uses	Source
2002	BRUNINGLeyda	Haines Company

Woodleaf

5 Woodleaf

Year	Uses	Source
2014	RECON SOLUTIONS	EDR Digital Archive
2010	RECON SOLUTIONS	EDR Digital Archive

WOODLEAF

5 WOODLEAF

Year	Uses	Source
2002	CITOManlou	Haines Company

6 WOODLEAF

Year	Uses	Source
2002	OGILLETWendy	Haines Company

7 WOODLEAF

Year	Uses	Source
2002	OGOBEYKieran	Haines Company

8 WOODLEAF

Year	Uses	Source
2002	OTAHBAZVahld	Haines Company

Woodleaf

9 Woodleaf

Year	Uses	Source
2014	HIGH TICKET ITEMS	EDR Digital Archive

FINDINGS

WOODLEAF

9 WOODLEAF

Year	Uses	Source
2002	OBDEWIKawla	Haines Company
1995	Soltani Heldi	Pacific Bell

Woodleaf

10 Woodleaf

Year	Uses	Source
2014	KP CONCRETE & STEEL INC	EDR Digital Archive
	JUNSTEEL INC	EDR Digital Archive

WOODLEAF

10 WOODLEAF

Year	Uses	Source
2002	HENSLEYML	Haines Company
1995	US Drapery Cleaners	Pacific Bell
	Tahbaxz Vahid	Pacific Bell
	Hensley Marcel	Pacific Bell
	Hensley Marcel	Pacific Bell
	Hensley ML	Pacific Bell

11 WOODLEAF

Year	Uses	Source
2002	DISTEFANO Michael	Haines Company

12 WOODLEAF

Year	Uses	Source
2002	OGUILLENHugo	Haines Company

13 WOODLEAF

Year	Uses	Source
2002	LEEHee J	Haines Company
	LEEHee J	Haines Company
	SAWAI Gary	Haines Company
1995	Rosenberg Jeff	Pacific Bell

FINDINGS

Woodleaf

14 Woodleaf

Year	Uses	Source
2014	COMFORT AIR	EDR Digital Archive

WOODLEAF

14 WOODLEAF

Year	Uses	Source
2002	MA David H	Haines Company
	0 MA David	Haines Company
1995	Ma David H	Pacific Bell

15 WOODLEAF

Year	Uses	Source
2002	ALLANCynthra	Haines Company

Woodleaf

16 Woodleaf

Year	Uses	Source
2014	LAGUNA SHOES & LUGGAGE REPAIR	EDR Digital Archive
2010	LAGUNA SHOES & LUGGAGE REPAIR	EDR Digital Archive

WOODLEAF

16 WOODLEAF

Year	Uses	Source
2002	LEEs Young B	Haines Company
1995	Lee Young B	Pacific Bell

17 WOODLEAF

Year	Uses	Source
2002	0 WALLERCara	Haines Company

18 WOODLEAF

Year	Uses	Source
2002	OHUANGShih	Haines Company

FINDINGS

19 WOODLEAF

Year	Uses	Source
2002	SHELTONMike R	Haines Company
	OCARRKen	Haines Company

20 WOODLEAF

Year	Uses	Source
2002	OLEWISDrane	Haines Company

21 WOODLEAF

Year	Uses	Source
1995	Roy Dian A	Pacific Bell

22 WOODLEAF

Year	Uses	Source
2002	OCHAUDHRYZareen A	Haines Company
1995	Kellar Julie	Pacific Bell
	Speaker Source The	Pacific Bell

23 WOODLEAF

Year	Uses	Source
2002	CORAAlbert	Haines Company

24 WOODLEAF

Year	Uses	Source
2002	ORICHINSLynn	Haines Company

25 WOODLEAF

Year	Uses	Source
2002	OKATAPSKI Laurel 00 B	Haines Company

26 WOODLEAF

Year	Uses	Source
2002	OGOLOWASSERShamn	Haines Company

27 WOODLEAF

Year	Uses	Source
2002	08 UANG Robert	Haines Company

28 WOODLEAF

Year	Uses	Source
2002	LITKESandra	Haines Company

FINDINGS

Woodleaf

29 Woodleaf

Year	Uses	Source
2010	MARCI CUNLIFFE	EDR Digital Archive

WOODLEAF

29 WOODLEAF

Year	Uses	Source
2002	HARGROVELaura	Haines Company

30 WOODLEAF

Year	Uses	Source
2002	OKLEINSMITH Dougla	Haines Company
1995	Sawyer K	Pacific Bell

Woodleaf

31 Woodleaf

Year	Uses	Source
2014	DYNASTY TAX SERVICES	EDR Digital Archive
	CHENG DYNASTY	EDR Digital Archive
2010	CHENG DYNASTY	EDR Digital Archive
	EX-IRS ASSOCIATES A CORPORATI	EDR Digital Archive
	TONY CHENG AND ASSOCIATES	EDR Digital Archive
2005	EX-IRS ASSOCIATES A CORPORATI	EDR Digital Archive
	TONY CHENG AND ASSOCIATES	EDR Digital Archive

WOODLEAF

31 WOODLEAF

Year	Uses	Source
2002	0 CHENG Joyce	Haines Company

Woodleaf

32 Woodleaf

Year	Uses	Source
2014	STENSON POWER SERVICE	EDR Digital Archive

FINDINGS

WOODLEAF

32 WOODLEAF

Year	*Uses*	*Source*
2002	0 KHANNARohhl	Haines Company
	TRACEYJ	Haines Company
1995	Tracey J	Pacific Bell

33 WOODLEAF

Year	*Uses*	*Source*
2002	0 S 10 CEEnc	Haines Company

34 WOODLEAF

Year	*Uses*	*Source*
2002	GATESWilliam	Haines Company
1995	Vollrath John L	Pacific Bell

35 WOODLEAF

Year	*Uses*	*Source*
2002	CHU Dav Id	Haines Company

36 WOODLEAF

Year	*Uses*	*Source*
2002	MANDALDwan	Haines Company

37 WOODLEAF

Year	*Uses*	*Source*
2002	LAPALME Karen	Haines Company

38 WOODLEAF

Year	*Uses*	*Source*
2002	YAMADAJIII	Haines Company

39 WOODLEAF

Year	*Uses*	*Source*
2002	OWINTRODEDons	Haines Company

40 WOODLEAF

Year	*Uses*	*Source*
2002	CHRISINGER Rebecca	Haines Company

FINDINGS

41 WOODLEAF

Year	Uses	Source
2002	OHERRERAMargo	Haines Company
	NICHOLSON Kevin	Haines Company

Woodleaf

42 Woodleaf

Year	Uses	Source
2005	HABDONS SHOES INC	EDR Digital Archive

WOODLEAF

42 WOODLEAF

Year	Uses	Source
2002	OMANRIOUEZJImmy	Haines Company

43 WOODLEAF

Year	Uses	Source
2002	EANSM	Haines Company

44 WOODLEAF

Year	Uses	Source
2002	0 LUKE 8 Slanley	Haines Company
1995	Zarinegar Sean	Pacific Bell

45 WOODLEAF

Year	Uses	Source
2002	I CENOGLEBrel	Haines Company

46 WOODLEAF

Year	Uses	Source
2002	DENNIS Robart	Haines Company
	KANBALAAnil	Haines Company
	KANBALAAnll	Haines Company

Woodleaf

47 Woodleaf

Year	Uses	Source
2005	INSIDE TECHNOLOGY	EDR Digital Archive

FINDINGS

WOODLEAF

47 WOODLEAF

Year	Uses	Source
2002	OCHi SHOLM Eleanor	Haines Company

48 WOODLEAF

Year	Uses	Source
2002	FULLMERCarol	Haines Company

49 WOODLEAF

Year	Uses	Source
2002	COLGRENKarl 949 7 B	Haines Company
1995	Colgren Karl	Pacific Bell

50 WOODLEAF

Year	Uses	Source
2002	REEDWendy	Haines Company

51 WOODLEAF

Year	Uses	Source
2002	OSCHREIBER Carol	Haines Company

52 WOODLEAF

Year	Uses	Source
2002	STEVENSON Allan	Haines Company

Woodleaf

53 Woodleaf

Year	Uses	Source
2014	BARRY KNELMAN PLANT CO	EDR Digital Archive
2010	BARRY KNELMAN PLANT CO	EDR Digital Archive
2005	BARRY KNELMAN PLANT CO	EDR Digital Archive

WOODLEAF

53 WOODLEAF

Year	Uses	Source
2002	OJAZAYERIMehrdad	Haines Company
1995	Velazquez Margar Ita	Pacific Bell

FINDINGS

54 WOODLEAF

Year	Uses	Source
2002	MILLERJUsatn C	Haines Company
	GIBSON Philip	Haines Company
	LOUIE Rick	Haines Company

55 WOODLEAF

Year	Uses	Source
2002	0 8 REENBERGRuth	Haines Company

Woodleaf

56 Woodleaf

Year	Uses	Source
2014	SUZANNE R MARTINEZ CPA	EDR Digital Archive

WOODLEAF

56 WOODLEAF

Year	Uses	Source
2002	OZEKRIYoss I	Haines Company
1995	Zekri Yossi & Einat	Pacific Bell

Woodleaf

57 Woodleaf

Year	Uses	Source
2010	FOCUSED AMBITION LLC	EDR Digital Archive

WOODLEAF

57 WOODLEAF

Year	Uses	Source
2002	OFRISCH Michell	Haines Company
1995	Frisch M	Pacific Bell

58 WOODLEAF

Year	Uses	Source
2002	5 DUFY Robin	Haines Company

59 WOODLEAF

Year	Uses	Source
2002	LONGENBERGERR	Haines Company

60 WOODLEAF

Year	Uses	Source
2002	LIKHTERMANA	Haines Company

61 WOODLEAF

Year	Uses	Source
2002	KESLERJ	Haines Company
	KESLER	Haines Company
1995	Kesler J & A	Pacific Bell

62 WOODLEAF

Year	Uses	Source
2002	OKOHSoo	Haines Company

63 WOODLEAF

Year	Uses	Source
2002	OROSENBryan	Haines Company

Woodleaf

64 Woodleaf

Year	Uses	Source
2010	BLACK MAGIC STUDIOS	EDR Digital Archive

WOODLEAF

65 WOODLEAF

Year	Uses	Source
2002	OJAYOUSSIJamal	Haines Company

66 WOODLEAF

Year	Uses	Source
2002	DUVAL Patricia	Haines Company

67 WOODLEAF

Year	Uses	Source
2002	PFANNENSTIELS	Haines Company
1995	Zappen J&T	Pacific Bell

FINDINGS

Woodleaf

68 Woodleaf

Year	Uses	Source
2014	FRONTIER CONTRACTOR	EDR Digital Archive
2010	FRONTIER CONTRACTOR	EDR Digital Archive
	HONGHWAN CORP A CORP	EDR Digital Archive

WOODLEAF

68 WOODLEAF

Year	Uses	Source
2002	0 EHRHARDT Frank	Haines Company

69 WOODLEAF

Year	Uses	Source
2002	SHAHPrakash	Haines Company

71 WOODLEAF

Year	Uses	Source
2002	LEEKwang	Haines Company

72 WOODLEAF

Year	Uses	Source
2002	SCALOWELLMark	Haines Company

73 WOODLEAF

Year	Uses	Source
2002	MUEAATSU Jenlyn	Haines Company

74 WOODLEAF

Year	Uses	Source
2002	h AAS Michael	Haines Company

75 WOODLEAF

Year	Uses	Source
2002	MENZELVem	Haines Company

76 WOODLEAF

Year	Uses	Source
2002	KHOSROWBODNassar	Haines Company

FINDINGS

78 WOODLEAF

Year	*Uses*	*Source*
2002	HANEY Carolyn	Haines Company

84 WOODLEAF

Year	*Uses*	*Source*
2002	GUILLIAUM David	Haines Company

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1 Woodleaf	2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
10 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
10 Woodleaf	2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
11 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
12 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
13 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
14 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
14 Woodleaf	2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
15 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
16 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
16 Woodleaf	2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
165 GREENFIELD	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
165 GREENFIELD DR	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
166 GREENFIELD DR	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
167 GREENFIELD DR	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
168 GREENFIELD DR	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
169 GREENFIELD	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
169 GREENFIELD DR	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
17 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
170 GREENFIELD	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
170 GREENFIELD DR	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
171 GREENFIELD DR	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
172 GREENFIELD DR	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
18 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
19 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
2 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
20 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
21 WOODLEAF	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
22 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
23 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
24 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
25 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
26 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
27 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
28 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
29 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
29 Woodleaf	2014, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
30 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
31 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
31 Woodleaf	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
32 Woodleaf	2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
32 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
33 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
34 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
35 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
36 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
37 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
38 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3825 ALTON PKY	2014, 2010, 2005, 2001, 1997, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3831 ALTON PKY	2014, 2010, 2005, 2001, 1997, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3851 Alton Pkwy	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3851 ALTON PKY	2014, 2010, 2005, 2001, 1997, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3875 ALTON	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3875 Alton Pkwy	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3875 ALTON PKY	2014, 2010, 2005, 2001, 1997, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3877 Alton Pkwy	2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3881 Alton Pkwy	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3881 ALTON PKY	2014, 2010, 2005, 2001, 1997, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
39 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3935 Alton Pkwy	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3935 ALTON PKY	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3955 Alton Pkwy	2014, 2010, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3955 ALTON PKY	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3965 ALTON	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
3965 Alton Pkwy	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3965 ALTON PKY	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3975 Alton Pkwy	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3975 ALTON PKY	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3995 Alton Pkwy	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
3995 ALTON PKY	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
4 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
40 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
4049 ALTON PKY	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
41 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
42 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
42 Woodleaf	2014, 2010, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
43 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
44 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
45 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
46 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
47 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
47 Woodleaf	2014, 2010, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
48 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
49 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
5 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
5 Woodleaf	2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
50 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
51 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
52 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
53 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
53 Woodleaf	2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
54 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
55 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
56 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
56 Woodleaf	2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
57 Woodleaf	2014, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
57 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
58 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
59 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
6 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
60 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
61 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
62 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
63 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
64 Woodleaf	2014, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
65 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
66 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
67 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
68 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
68 Woodleaf	2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
69 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
7 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
71 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
72 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
73 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
74 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
75 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
76 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
78 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
8 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
84 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
9 WOODLEAF	2014, 2010, 2005, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
9 Woodleaf	2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
Culver Drive and Alton Parkway	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

Culver Drive and Alton Parkway
Culver Drive and Alton Parkway
Irvine, CA 92604

Inquiry Number: 5869999.2s
November 14, 2019

The EDR Radius Map™ Report with GeoCheck®

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

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

CULVER DRIVE AND ALTON PARKWAY
IRVINE, CA 92604

COORDINATES

Latitude (North):	33.6808680 - 33° 40' 51.12''
Longitude (West):	117.8114790 - 117° 48' 41.32''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	424779.9
UTM Y (Meters):	3726874.2
Elevation:	72 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640942 TUSTIN, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140515, 20140514
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
CULVER DRIVE AND ALTON PARKWAY
IRVINE, CA 92604

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	TUSTIN MARINE CORPS		DOD	Same	4440, 0.841, North
A1	RITE AID #5765	3875 ALTON PKWY	CERS HAZ WASTE	Lower	1 ft.
A2	RITE AID #5765	3875 ALTON PKWY	RCRA-SQG	Lower	1 ft.
A3	WEST PARK CLEANERS	3881 ALTON PKWY	CPS-SLIC, CERS HAZ WASTE, Orange Co. Industrial...	Lower	1 ft.
B4	BIG 5 SPORTING GOODS	3831 ALTON PKWY STE	RCRA NonGen / NLR	Lower	1 ft.
B5	WEST PARK CLEANERS	3831 ALTON PKWY	RCRA-SQG	Lower	1 ft.
B6	WEST PARK CLEANERS	3831 ALTON PKWY	RCRA-SQG, FINDS, ECHO	Lower	1 ft.
A7	WEST PARK CLEANERS,	3881 ALTON PKY UNIT	DRYCLEANERS	Lower	1 ft.
A8	MSK ALLIANCE INC DBA	3881 ALTON PKWY STE	RCRA NonGen / NLR	Lower	1 ft.
A9	ROYMA CORP	3881 ALTON PKY	DRYCLEANERS	Lower	1 ft.
A10	WESTPARK CLEANERS, M	3881 ALTON PKY UNIT	DRYCLEANERS	Lower	1 ft.
A11	PARK CLEANERS	3881 ALTON PKY	DRYCLEANERS	Lower	1 ft.
A12	ROYMA INC	3881 ALTON PKY STE D	EDR Hist Cleaner	Lower	1 ft.
B13	ALBERTSONS #3596	3825 ALTON PKWY	CERS HAZ WASTE, CERS	Lower	12, 0.002, NW
B14	ALBERTSONS #3596/#65	3825 ALTON PKWY	RCRA-LQG	Lower	12, 0.002, NW
B15	MARSHALLS 0658	3781 ALTON PKWY	RCRA NonGen / NLR	Lower	135, 0.026, NW
B16	MARSHALLS 0658	3781 ALTON PKWY	CERS HAZ WASTE, HAZNET	Lower	135, 0.026, NW
B17	SPROUTS FARMERS MARK	3775 ALTON PKWY	CERS HAZ WASTE, CERS	Lower	159, 0.030, NW
B18	EXXON MOBIL CORPORAT	3765 ALTON PKWY	EDR Hist Auto	Lower	199, 0.038, WNW
B19	CIRCLE K STORE #2709	3765 ALTON PKWY	RCRA NonGen / NLR	Lower	199, 0.038, WNW
B20	CIRCLE K STORES INC.	3765 ALTON PKWY	CERS HAZ WASTE, CERS TANKS, CHMIRS, CERS	Lower	199, 0.038, WNW
B21	CIRCLE K STORES INC	3765 ALTON PKWY	UST	Lower	199, 0.038, WNW
B22	CIRCLE K STORES INC.	3765 ALTON PKWY	RCRA-SQG, CHMIRS, FINDS, ECHO	Lower	199, 0.038, WNW
23	EL TORO TEXACO	27 GREENFIELD	EDR Hist Auto	Higher	485, 0.092, South
24	ST JOSEPH IRVINE HEA	4050 BARRANCA PKWY	RCRA-SQG, FINDS, ECHO, HAZNET	Higher	719, 0.136, ENE
25	PACIFIC BELL	16972 CULVER DR	RCRA-SQG, FINDS, ECHO	Lower	978, 0.185, SW
C26	GOOD HANDS CLEANERS	3972 BARRANCA PKY #	DRYCLEANERS	Lower	1002, 0.190, North
C27	PHOTO BEAR	3972 BARRANCA UNIT B	RCRA-SQG, FINDS, ECHO, HAZNET	Lower	1002, 0.190, North
C28	GOOD HANDS CLEANERS	3972 BARRANCA PKWY S	DRYCLEANERS, HAZNET, CERS	Lower	1002, 0.190, North
C29	CELEBRITY CLEANERS	3972 BARRANCA F	DRYCLEANERS	Lower	1002, 0.190, North
30	MOSS, ROYCE & CONALL	42 EAGLE RUN	RCRA NonGen / NLR	Lower	1068, 0.202, SSW
D31	ORANGE COUNTY FIRE S	301 YALE LOOP	LUST	Higher	1092, 0.207, ENE
C32	CROSSROAD CLEANERS	3972 BARRANCA F #F1	DRYCLEANERS	Lower	1165, 0.221, NNE
E33	TARGET T0336	3750 BARRANCA PKWY	CERS HAZ WASTE, CERS	Lower	1167, 0.221, North
E34	CVS PHARMACY #16120	3750 BARRANCA PKWY S	RCRA-VSQG, FINDS, ECHO	Lower	1167, 0.221, North
E35	TARGET STORE T0336	3750 BARRANCA PKWY	RCRA-LQG	Lower	1167, 0.221, North
F36	WOODBRIDGE HIGH SCHO	2 MEADOWBROOK	ENVIROSTOR, SCH, CERS HAZ WASTE, CERS	Higher	1227, 0.232, ESE
F37	IRVINE USD WHS	2 MEADOWBROOK	RCRA-SQG, FINDS, ECHO, EMI	Higher	1227, 0.232, ESE
38	IRVINE USD IRVINE UN	311 W YALE LOOP	RCRA-SQG, FINDS, ECHO	Higher	1279, 0.242, East

MAPPED SITES SUMMARY

Target Property Address:
CULVER DRIVE AND ALTON PARKWAY
IRVINE, CA 92604

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
D39	ORANGE COUNTY FIRE S	301 YALE LOOP	LUST, CERS	Higher	1311, 0.248, ENE
40	WOODBRIDGE PINES	115 PINESTONE	RCRA NonGen / NLR	Higher	1318, 0.250, NE
41	ARROWHEAD DRINKING W	4250 N. BALDWIN	RCRA-SQG, LUST, HIST CORTESE	Higher	1430, 0.271, ENE
G42	TREASURE FARMS #151-	CULVER DR	LUST	Lower	2217, 0.420, North
G43	IRVINE CO ORANGE GV	TRABUCO RD	LUST, CERS	Lower	2217, 0.420, North
H44	WOODBRIDGE AUTO WASH	4550 BARRANCA	LUST, HIST UST	Higher	2453, 0.465, ESE
H45	WOODBRIDGE AUTO WASH	4550 BARRANCA PY	SWEEPS UST, CA FID UST, HIST CORTESE	Higher	2453, 0.465, ESE
46	SUNNY FRESH CLEANERS	4722 BARRANCA PKWY	CPS-SLIC, Orange Co. Industrial Site, DRYCLEANERS,...	Higher	2627, 0.498, East
I47	TUSTIN PARCEL C	BARRANCA PKWY & HARV	ENVIROSTOR	Lower	2711, 0.513, NW
I48	TUSTIN ELEMENTARY SC	BARRANCA PARKWAY/HAR	ENVIROSTOR, SCH	Lower	2711, 0.513, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
PFAS ---------- PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST ---------- SWEEPS UST Listing
HIST UST ---------- Hazardous Substance Storage Container Database
CA FID UST ---------- Facility Inventory Database

EXECUTIVE SUMMARY

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
Orange Co. Industrial Site	List of Industrial Site Cleanups
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan

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

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/24/2019 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS #3596/#65 EPA ID:: CAR000284232	3825 ALTON PKWY	NW 0 - 1/8 (0.002 mi.)	B14	42
TARGET STORE T0336 EPA ID:: CAR000219113	3750 BARRANCA PKWY	N 1/8 - 1/4 (0.221 mi.)	E35	103

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/24/2019 has revealed that there are 9 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ST JOSEPH IRVINE HEA EPA ID:: CAD983662875	***4050 BARRANCA PKWY***	***ENE 1/8 - 1/4 (0.136 mi.)***	***24***	***77***
IRVINE USD WHS EPA ID:: CAD981688682	***2 MEADOWBROOK***	***ESE 1/8 - 1/4 (0.232 mi.)***	***F37***	***119***
IRVINE USD IRVINE UN EPA ID:: CAD981688864	***311 W YALE LOOP***	***E 1/8 - 1/4 (0.242 mi.)***	***38***	***121***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RITE AID #5765 EPA ID:: CA0001006832	3875 ALTON PKWY	0 - 1/8 (0.000 mi.)	A2	15
WEST PARK CLEANERS EPA ID:: CAD982441982	3831 ALTON PKWY	0 - 1/8 (0.000 mi.)	B5	29
WEST PARK CLEANERS EPA ID:: CAD982461527	***3831 ALTON PKWY***	***0 - 1/8 (0.000 mi.)***	***B6***	***30***
CIRCLE K STORES INC. EPA ID:: CAL000160681	***3765 ALTON PKWY***	***WNW 0 - 1/8 (0.038 mi.)***	***B22***	***73***
PACIFIC BELL	***16972 CULVER DR***	***SW 1/8 - 1/4 (0.185 mi.)***	***25***	***80***

EPA ID:: CAT080025638

PHOTO BEAR	***3972 BARRANCA UNIT B***	***N 1/8 - 1/4 (0.190 mi.)***	***C27***	***82***

EPA ID:: CAD982406035

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 06/24/2019 has revealed that there is 1 RCRA-VSQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CVS PHARMACY #16120	***3750 BARRANCA PKWY S***	***N 1/8 - 1/4 (0.221 mi.)***	***E34***	***100***

EPA ID:: CAR000262444

State- and tribal - equivalent CERCLIS

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

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/29/2019 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WOODBRIDGE HIGH SCHO	***2 MEADOWBROOK***	***ESE 1/8 - 1/4 (0.232 mi.)***	***F36***	***109***
Status: No Further Action				
Facility Id: 60001104				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN PARCEL C	BARRANCA PKWY & HARV	NW 1/2 - 1 (0.513 mi.)	I47	144
Status: No Further Action				
Facility Id: 30970006				
TUSTIN ELEMENTARY SC	***BARRANCA PARKWAY/HAR***	***NW 1/2 - 1 (0.513 mi.)***	***I48***	***145***
Status: No Further Action				
Facility Id: 30970013				

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

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

A review of the LUST list, as provided by EDR, has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ORANGE COUNTY FIRE S	301 YALE LOOP	ENE 1/8 - 1/4 (0.207 mi.)	D31	93
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0605900117 Global ID: T0605906369				
ORANGE COUNTY FIRE S	***301 YALE LOOP***	***ENE 1/8 - 1/4 (0.248 mi.)***	***D39***	***122***
Database: LUST, Date of Government Version: 09/09/2019 Status: Completed - Case Closed Global Id: T0605906369 Global Id: T0605900117				
ARROWHEAD DRINKING W	***4250 N. BALDWIN***	***ENE 1/4 - 1/2 (0.271 mi.)***	***41***	***127***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: R-09169 Status: Leak being confirmed Global ID: T0603704784				
WOODBRIDGE AUTO WASH	***4550 BARRANCA***	***ESE 1/4 - 1/2 (0.465 mi.)***	***H44***	***132***
Database: ORANGE CO. LUST, Date of Government Version: 07/10/2019 Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 09/09/2019 Status: Completed - Case Closed Facility Id: 85UT087 Facility Status: No Action Global Id: T0605900359 Global ID: T0605900359				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TREASURE FARMS #151-	CULVER DR	N 1/4 - 1/2 (0.420 mi.)	G42	129
Database: LUST, Date of Government Version: 09/09/2019 Status: Completed - Case Closed Global Id: T0605901355				
IRVINE CO ORANGE GV	***TRABUCO RD***	***N 1/4 - 1/2 (0.420 mi.)***	***G43***	***131***
Database: LUST, Date of Government Version: 09/09/2019 Status: Completed - Case Closed Global Id: T0605900869				

EXECUTIVE SUMMARY

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUNNY FRESH CLEANERS	***4722 BARRANCA PKWY***	***E 1/4 - 1/2 (0.498 mi.)***	***46***	***142***
Database: CPS-SLIC, Date of Government Version: 09/09/2019				
Database: SLIC REG 8, Date of Government Version: 04/03/2008				
Facility Status: Completed - Case Closed				
Global Id: SLT8R0693953				
Facility Status: Closed				

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST PARK CLEANERS	***3881 ALTON PKWY***	***0 - 1/8 (0.000 mi.)***	***A3***	***19***
Database: CPS-SLIC, Date of Government Version: 09/09/2019				
Database: SLIC REG 8, Date of Government Version: 04/03/2008				
Facility Status: Completed - Case Closed				
Global Id: SL208653951				
Facility Status: Closed				

State and tribal registered storage tank lists

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

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

Lower Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE K STORES INC	3765 ALTON PKWY	WNW 0 - 1/8 (0.038 mi.)	B21	73
Database: ORANGE CO. UST, Date of Government Version: 07/10/2019				
Database: UST, Date of Government Version: 09/09/2019				
Facility Id: FA0058482				
Facility Id: FA0058482				
Facility Id: 17141				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category. depending on the level of threat to public health and safety or the. environment they pose.

A review of the SCH list, as provided by EDR, and dated 07/29/2019 has revealed that there is 1 SCH

site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WOODBRIDGE HIGH SCHO	***2 MEADOWBROOK***	***ESE 1/8 - 1/4 (0.232 mi.)***	***F36***	***109***
Facility Id: 60001104				
Status: No Further Action				

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

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 08/14/2019 has revealed that there are 8 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WOODBRIDGE HIGH SCHO	***2 MEADOWBROOK***	***ESE 1/8 - 1/4 (0.232 mi.)***	***F36***	***109***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RITE AID #5765	3875 ALTON PKWY	0 - 1/8 (0.000 mi.)	A1	9
WEST PARK CLEANERS	***3881 ALTON PKWY***	***0 - 1/8 (0.000 mi.)***	***A3***	***19***
ALBERTSONS #3596	***3825 ALTON PKWY***	***NW 0 - 1/8 (0.002 mi.)***	***B13***	***37***
MARSHALLS 0658	***3781 ALTON PKWY***	***NW 0 - 1/8 (0.026 mi.)***	***B16***	***45***
SPROUTS FARMERS MARK	***3775 ALTON PKWY***	***NW 0 - 1/8 (0.030 mi.)***	***B17***	***49***
CIRCLE K STORES INC.	***3765 ALTON PKWY***	***WNW 0 - 1/8 (0.038 mi.)***	***B20***	***53***
TARGET T0336	***3750 BARRANCA PKWY***	***N 1/8 - 1/4 (0.221 mi.)***	***E33***	***96***

Local Lists of Registered Storage Tanks

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

A review of the CERS TANKS list, as provided by EDR, and dated 08/14/2019 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CIRCLE K STORES INC.	***3765 ALTON PKWY***	***WNW 0 - 1/8 (0.038 mi.)***	***B20***	***53***

Other Ascertainable Records

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

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/24/2019 has revealed that there are 6 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WOODBRIDGE PINES EPA ID:: CAL000004427	115 PINESTONE	NE 1/8 - 1/4 (0.250 mi.)	40	126

Lower Elevation	Address	Direction / Distance	Map ID	Page
BIG 5 SPORTING GOODS EPA ID:: CAL000410178	3831 ALTON PKWY STE	0 - 1/8 (0.000 mi.)	B4	28
MSK ALLIANCE INC DBA EPA ID:: CAL000431609	3881 ALTON PKWY STE	0 - 1/8 (0.000 mi.)	A8	34
MARSHALLS 0658 EPA ID:: CAL000401890	3781 ALTON PKWY	NW 0 - 1/8 (0.026 mi.)	B15	44
CIRCLE K STORE #2709 EPA ID:: CAL000369545	3765 ALTON PKWY	WNW 0 - 1/8 (0.038 mi.)	B19	52
MOSS, ROYCE & CONALL EPA ID:: CAC002975541	42 EAGLE RUN	SSW 1/8 - 1/4 (0.202 mi.)	30	92

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

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

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TUSTIN MARINE CORPS		N 1/2 - 1 (0.841 mi.)	0	9

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 9 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WEST PARK CLEANERS Database: DRYCLEANERS, Date of Government Version: 06/04/2019 EPA Id: CAD982461527	***3881 ALTON PKWY***	***0 - 1/8 (0.000 mi.)***	***A3***	***19***
WEST PARK CLEANERS, Database: DRYCLEAN SOUTH COAST, Date of Government Version: 09/27/2019	3881 ALTON PKY UNIT	0 - 1/8 (0.000 mi.)	A7	32
ROYMA CORP Database: DRYCLEAN SOUTH COAST, Date of Government Version: 09/27/2019	3881 ALTON PKY	0 - 1/8 (0.000 mi.)	A9	35
WESTPARK CLEANERS, M Database: DRYCLEAN SOUTH COAST, Date of Government Version: 09/27/2019	3881 ALTON PKY UNIT	0 - 1/8 (0.000 mi.)	A10	36
PARK CLEANERS Database: DRYCLEAN SOUTH COAST, Date of Government Version: 09/27/2019	3881 ALTON PKY	0 - 1/8 (0.000 mi.)	A11	36
GOOD HANDS CLEANERS Database: DRYCLEAN SOUTH COAST, Date of Government Version: 09/27/2019	3972 BARRANCA PKY #	N 1/8 - 1/4 (0.190 mi.)	C26	81

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOOD HANDS CLEANERS	***3972 BARRANCA PKWY S***	***N 1/8 - 1/4 (0.190 mi.)***	***C28***	***85***
Database: DRYCLEANERS, Date of Government Version: 06/04/2019 EPA Id: CAL000256478 EPA Id: CAL000320247				
CELEBRITY CLEANERS	3972 BARRANCA F	N 1/8 - 1/4 (0.190 mi.)	C29	91
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 09/27/2019				
CROSSROAD CLEANERS	3972 BARRANCA F #F1	NNE 1/8 - 1/4 (0.221 mi.)	C32	95
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 09/27/2019				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARROWHEAD DRINKING W	***4250 N. BALDWIN***	***ENE 1/4 - 1/2 (0.271 mi.)***	***41***	***127***
Reg Id: R-09169				
WOODBRIDGE AUTO WASH	***4550 BARRANCA PY***	***ESE 1/4 - 1/2 (0.465 mi.)***	***H45***	***140***
Reg Id: 083000448T				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EL TORO TEXACO	27 GREENFIELD	S 0 - 1/8 (0.092 mi.)	23	76

Lower Elevation	Address	Direction / Distance	Map ID	Page
EXXON MOBIL CORPORAT	3765 ALTON PKWY	WNW 0 - 1/8 (0.038 mi.)	B18	52

EXECUTIVE SUMMARY

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROYMA INC	3881 ALTON PKY STE D	0 - 1/8 (0.000 mi.)	A12	37

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

Site Name	Database(s)
ALTON PARKWAY	CIWQS
ALTON PARKWAY EXTENSION, IRVINE BL	CIWQS
18787 ALTON PARKWAY	CIWQS
ALTON PARKWAY EXTENSIONNA IRVINE B	FINDS
CULVER DRIVE REALIGNMENT	FINDS
CARSON - 91 LLC	ENVIROSTOR

OVERVIEW MAP - 5869999.2S

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

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

SITE NAME:	Culver Drive and Alton Parkway	CLIENT:	Stantec
ADDRESS:	Culver Drive and Alton Parkway Irvine CA 92604	CONTACT:	Emily Medler
		INQUIRY #:	5869999.2s
LAT/LONG:	33.680868 / 117.811479	DATE:	November 14, 2019 2:20 pm

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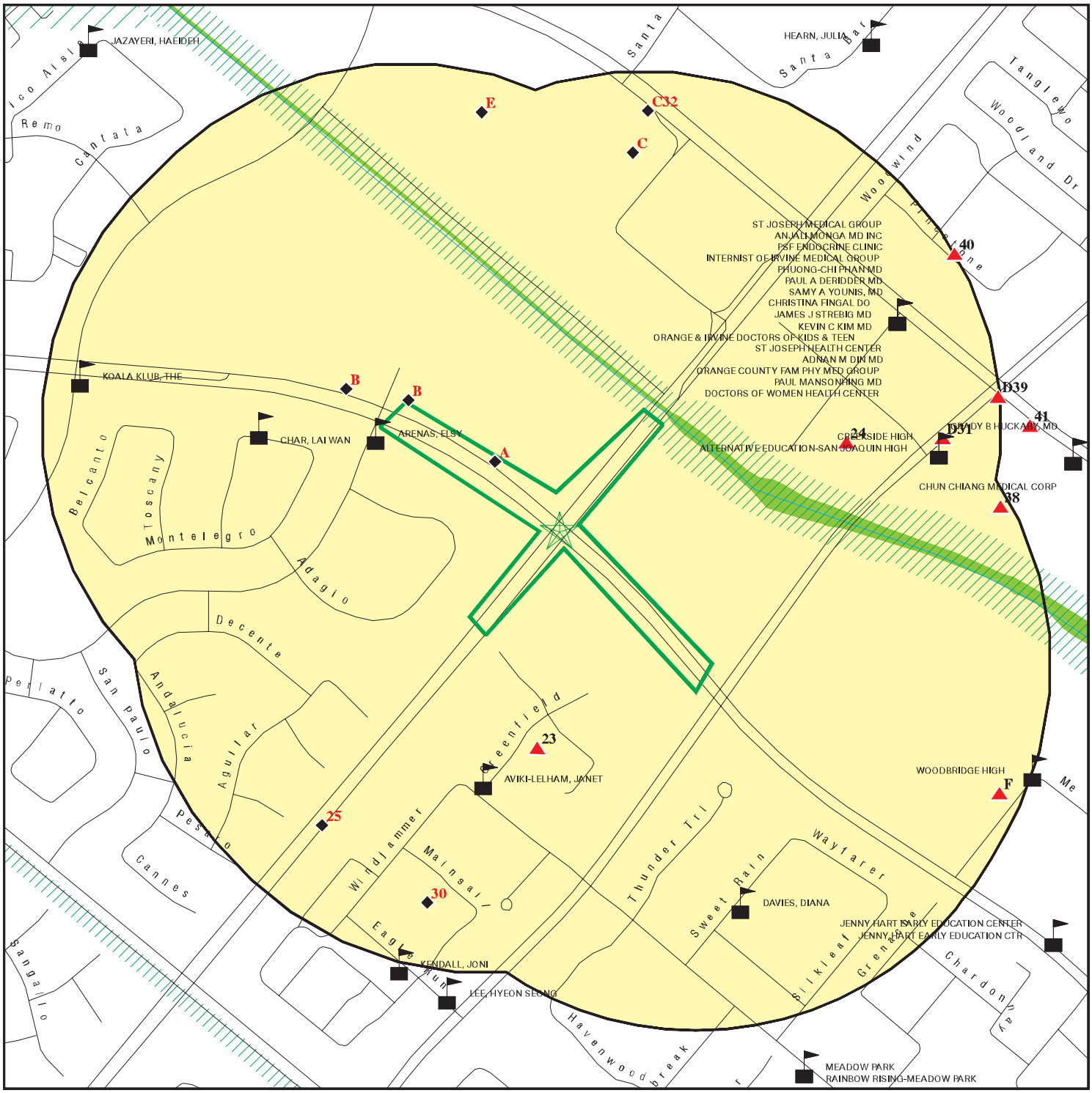
DETAIL MAP - 5869999.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

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

SITE NAME: Culver Drive and Alton Parkway	CLIENT: Stantec
ADDRESS: Culver Drive and Alton Parkway Irvine CA 92604	CONTACT: Emily Medler
LAT/LONG: 33.680868 / 117.811479	INQUIRY #: 5869999.2s DATE: November 14, 2019 2:21 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	1	NR	NR	NR	2
RCRA-SQG	0.250		4	5	NR	NR	NR	9
RCRA-VSQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	1	0	2	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	2	4	NR	NR	6

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		1	0	1	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	0	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	1	NR	NR	NR	1
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		6	2	NR	NR	NR	8
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		1	0	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
Orange Co. Industrial Site	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		4	2	NR	NR	NR	6
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	1	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		5	4	NR	NR	NR	9
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	26	19	7	3	0	55

MAP FINDINGS SUMMARY

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

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

DOD **TUSTIN MARINE CORPS AIR STATION (CLOSED)** **DOD** **CUSA143892**
Region **N/A**
North **TUSTIN MARINE CORPS AIR S (County), CA**
1/2-1
4440 ft.

DOD:
Feature 1: Marine Corps DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Tustin Marine Corps Air Station (Closed)
Name 2: Not reported
Name 3: Not reported
State: CA
DOD Site: Yes
Tile name: CAORANGE

A1 **RITE AID #5765** **CERS HAZ WASTE** **S112836203**
3875 ALTON PKWY **N/A**
< 1/8 **IRVINE, CA 92606**
1 ft.

Site 1 of 9 in cluster A

Relative: CERS HAZ WASTE:
Lower
Name: RITE AID #5765
Actual: Address: 3875 ALTON PKWY
68 ft. City,State,Zip: IRVINE, CA 92606
Site ID: 61910
CERS ID: 10442200
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-22-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review - facility notified that HM is below thresholds
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-12-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos if necessary was granted by the store manager, Brendan Lawler. No hazardous waste was observed in the dumpster and no photos were taken on this date. The following container were observed: Corrosive/Acid- empty Toxic/Poison Oxidizer Corrosive/Base Flammable Toxic/Pharmaceuticals The containers were observed properly stored and labeled. Hazardous waste manifests were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to EHS@riteaid.com
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

RITE AID #5765 (Continued) **S112836203**

Eval Date:	04-29-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Walked through the facility and checked the trash receptacles with the Store Manager. Observed the following hazardous wastes: - 1, tote for oxidizer waste - 1, tote for corrosive/acid waste - 1, tote for toxic poison waste - 1, tote for corrosive/base alkaline waste - 1, tote for flammable waste The hazardous waste manifests and recycling receipts were reviewed on-site. Employee Emergency contact phone numbers and the Response Plan is available for employees.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-17-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review of CERS facility info and emergency response plan accepted.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	11-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review - updated to new federal EPA ID #
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	61910
Facility Name:	Rite Aid #5765
Env Int Type Code:	HWG
Program ID:	10442200
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.682380
Longitude:	-117.814260

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120

RITE AID #5765 (Continued) **S112836203**

Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Document Preparer
Entity Name:	Jordan Anderson
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Thrifty Payless, Inc
Entity Title:	Not reported
Affiliation Address:	30 Hunter Lane
Affiliation City:	Camp Hill
Affiliation State:	PA
Affiliation Country:	United States
Affiliation Zip:	17011
Affiliation Phone:	(717) 761-2633
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	30 Hunter Lane
Affiliation City:	Camp Hill
Affiliation State:	PA
Affiliation Country:	Not reported
Affiliation Zip:	17011
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	RITE AID CORPORATION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Joseph A. Chest
Entity Title:	Not reported
Affiliation Address:	30 Hunter Lane
Affiliation City:	Camp Hill
Affiliation State:	PA
Affiliation Country:	Not reported
Affiliation Zip:	17011
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator

RITE AID #5765 (Continued) **S112836203**

Entity Name:	Rite Aid #5765
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(949) 250-4465
Affiliation Type Desc:	Property Owner
Entity Name:	The Irvine Company LLC
Entity Title:	Not reported
Affiliation Address:	101 Innovation Drive
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92617
Affiliation Phone:	(949) 720-3100
Affiliation Type Desc:	Identification Signer
Entity Name:	Joseph A. Chest
Entity Title:	Manager, EHS
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Name:	RITE AID #5765
Address:	3875 ALTON PKWY
City,State,Zip:	IRVINE, CA 92606
Site ID:	61910
CERS ID:	10442200
CERS Description:	RCRA LQ HW Generator

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	01-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review - facility notified that HM is below thresholds
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-12-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos if necessary was granted by the store manager, Brendan Lawler. No hazardous waste was observed in the dumpster and no photos were taken on this date. The following container were observed: Corrosive/Acid- empty Toxic/Poison Oxidizer Corrosive/Base Flammable Toxic/Pharmaceuticals The containers were observed properly stored and labeled. Hazardous waste manifests were reviewed. No hazardous waste

RITE AID #5765 (Continued) **S112836203**

	violations were observed on this date. A copy of this report will be sent to EHS@riteaid.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-29-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Walked through the facility and checked the trash receptacles with the Store Manager. Observed the following hazardous wastes: - 1, tote for oxidizer waste - 1, tote for corrosive/acid waste - 1, tote for toxic poison waste - 1, tote for corrosive/base alkaline waste - 1, tote for flammable waste The hazardous waste manifests and recycling receipts were reviewed on-site. Employee Emergency contact phone numbers and the Response Plan is available for employees.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-17-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review of CERS facility info and emergency response plan accepted.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-13-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review - updated to new federal EPA ID #
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	61910
Facility Name:	Rite Aid #5765
Env Int Type Code:	HWG
Program ID:	10442200
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.682380
Longitude:	-117.814260

RITE AID #5765 (Continued) **S112836203**

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Jordan Anderson
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Thrifty Payless, Inc
Entity Title:	Not reported
Affiliation Address:	30 Hunter Lane
Affiliation City:	Camp Hill
Affiliation State:	PA
Affiliation Country:	United States
Affiliation Zip:	17011
Affiliation Phone:	(717) 761-2633

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	30 Hunter Lane
Affiliation City:	Camp Hill
Affiliation State:	PA
Affiliation Country:	Not reported
Affiliation Zip:	17011
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	RITE AID CORPORATION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Joseph A. Chest
Entity Title:	Not reported
Affiliation Address:	30 Hunter Lane
Affiliation City:	Camp Hill
Affiliation State:	PA

RITE AID #5765 (Continued) **S112836203**

Affiliation Country:	Not reported
Affiliation Zip:	17011
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Rite Aid #5765
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(949) 250-4465
Affiliation Type Desc:	Property Owner
Entity Name:	The Irvine Company LLC
Entity Title:	Not reported
Affiliation Address:	101 Innovation Drive
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92617
Affiliation Phone:	(949) 720-3100
Affiliation Type Desc:	Identification Signer
Entity Name:	Joseph A. Chest
Entity Title:	Manager, EHS
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A2 **RITE AID #5765** **RCRA-SQG** **1000978317**
3875 ALTON PKWY **CA0001006832**
< 1/8 **IRVINE, CA 92606**
1 ft.

Site 2 of 9 in cluster A

Relative: RCRA-SQG:
Lower

Date form received by agency:	2019-04-29 00:00:00.0
Facility name:	RITE AID #5765
Facility address:	3875 ALTON PKWY IRVINE, CA 92606
EPA ID:	CA0001006832
Mailing address:	HUNTER LANE CAMP HILL, PA 17011
Contact:	JOSEPH A CHEST
Contact address:	HUNTER LANE CAMP HILL, PA 17011
Contact country:	US
Contact telephone:	717-975-8643
Contact email:	EHS@RITEAID.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous

Actual:
68 ft.

RITE AID #5765 (Continued) **1000978317**

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	THE IRVINE COMPANY, LLC
Owner/operator address:	INNOVATION DRIVE; ATTN: GENERAL COUNSEL, RETAIL PR IRVINE, CA 92617
Owner/operator country:	US
Owner/operator telephone:	949-720-3100
Owner/operator email:	EHS@RITEAID.COM
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	1988-06-24 00:00:00.0
Owner/Op end date:	Not reported

Owner/operator name:	THRIFTY PAYLESS, INC
Owner/operator address:	HUNTER LANE CAMP HILL, PA 17011
Owner/operator country:	US
Owner/operator telephone:	717-761-2633
Owner/operator email:	EHS@RITEAID.COM
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	1997-04-10 00:00:00.0
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	2018-02-23 00:00:00.0
Site name:	RITE AID #5765
Classification:	Large Quantity Generator

Date form received by agency:	2017-04-14 00:00:00.0
Site name:	RITE AID #5765

RITE AID #5765 (Continued) **1000978317**

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2014-11-12 00:00:00.0
Site name: RITE AID NO 5765
Classification: Large Quantity Generator

Date form received by agency: 2010-09-08 00:00:00.0
Site name: RITE AID 5765
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 1998-11-04 00:00:00.0
Site name: RITE AID CORP 5765
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 232
. Waste name: Pesticides and other waste associated with pesticide production

. Waste code: 261
. Waste name: Polychlorinated biphenyls and material containing PCB's

. Waste code: 291
. Waste name: Latex waste

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

RITE AID #5765 (Continued) **1000978317**

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, &

RITE AID #5765 (Continued) **1000978317**

SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U080
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

. Waste code: U160
. Waste name: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Violation Status: No violations found

A3 **WEST PARK CLEANERS** **CPS-SLIC S102417041**
3881 ALTON PKWY **CERS HAZ WASTE N/A**
< 1/8 **IRVINE, CA 92714** **Orange Co. Industrial Site**
1 ft. **DRYCLEANERS**
Site 3 of 9 in cluster A **EMI**
CERS

Relative:
Lower

Actual:
68 ft.

CPS-SLIC:

Name:	WESTPARK CLEANERS
Address:	3881 ALTON PARKWAY
City,State,Zip:	IRVINE, CA
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/05/2006
Global Id:	SL208653951
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number:	Not reported
Latitude:	33.6817289250133
Longitude:	-117.812297344208
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	SL208653951
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

WEST PARK CLEANERS (Continued) **S102417041**

SLIC REG 8:
Name: WESTPARK CLEANERS
Address: 3881 ALTON PARKWAY
City: IRVINE
Type: Soil and Groundwater
Facility Status: Closed
Staff: NA
Substance: TCE, PCE
Lead Agency: Regional Board
Location Code: I-1
Thomas Bros Code: 860-C5

CERS HAZ WASTE:
Name: WESTPARK CLEANERS
Address: 3881 ALTON PKWY STE D
City,State,Zip: IRVINE, CA 92606
Site ID: 419543
CERS ID: 10541347
CERS Description: Hazardous Waste Generator

Orange Co. Industrial Site:
Name: WEST PARK CLEANERS
Address: 3881 ALTON PKWY
City,State,Zip: IRVINE, CA 92714
Case ID: 96IC028
Record ID: RO0000549
Current Status: CLOSED 9/18/1997
Closure Type: Closure certification issued
Released Chemical: PERCHLOROETHYLENE

DRYCLEANERS:
Name: SUA INC DBA WEST PARK CLEANERS
Address: 3881 ALTON PKWY
City,State,Zip: IRVINE, CA 927140000
EPA Id: CAD982461527
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 01/21/1991
Facility Active: No
Inactive Date: 06/30/2017
Facility Addr2: Not reported
Owner Name: SUA INC
Owner Address: 3881 ALTON PARKWAY #D
Owner Address 2: Not reported
Owner Telephone: 9492520501
Contact Name: SHAWN SUBHASH KAPOOR
Contact Address: 3881 ALTON PARKWAY #D
Contact Address 2: Not reported
Contact Telephone: 9492520501
Mailing Name: Not reported
Mailing Address 1: 3881 ALTON PARKWAY SUITE D
Mailing Address 2: Not reported
Mailing City: IRVINE

WEST PARK CLEANERS (Continued) **S102417041**

Mailing State:	CA
Mailing Zip:	926060000
Owner Fax:	0000000000
Region Code:	4

EMI:

Name:	PARK CLEANERS, ROYMA CORP DBA
Address:	3881 ALTON PARKWAY
City,State,Zip:	IRVINE, CA
Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	3509
Air District Name:	SC
SIC Code:	7216
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	PARK CLEANERS
Address:	3881 ALTON PKWY
City,State,Zip:	IRVINE, CA
Year:	1995
County Code:	30
Air Basin:	SC
Facility ID:	3509
Air District Name:	SC
SIC Code:	7216
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

CERS:

Name:	WESTPARK CLEANERS
Address:	3881 ALTON PARKWAY
City,State,Zip:	IRVINE, CA
Site ID:	205505
CERS ID:	SL208653951
CERS Description:	Cleanup Program Site

Name:	WESTPARK CLEANERS
Address:	3881 ALTON PKWY STE D

WEST PARK CLEANERS (Continued) **S102417041**

City,State,Zip: IRVINE, CA 92606
Site ID: 419543
CERS ID: 10541347
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 419543
Site Name: WESTPARK CLEANERS
Violation Date: 01-19-2016
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 02/04/2016. The lid for the waste hydrocarbon was not secured. You must keep the lid ring around the lid and threaded unless you are adding waste.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 419543
Site Name: WESTPARK CLEANERS
Violation Date: 10-23-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/30/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 419543
Site Name: WESTPARK CLEANERS
Violation Date: 10-23-2014
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 05/30/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 06-19-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On-site to follow up on previous violations cited on 12/19/16 and in 2018 for failing to annually submit in the California Environmental Reporting System (CERS). The business employee stated the owner/contact was not Mr. Subhash Kappor as listed in CERS and is Mr. Sam Kahn. I discussed the previous violations with the business employee and what needs to be completed in order to correct the

WEST PARK CLEANERS (Continued) **S102417041**

violations. The employee stated she would contact Mr. Kahn and give him my information. I requested to inspect the business and the employee stated that she would prefer I do this with the owner present. I will follow up with Mr. Kahn.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-22-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Spoke to the owner, Shawn. Researched CERS and E-Submit looking for HMBEP submittal. None were found.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-12-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On-site to perform a routine inspection and assist business with the California Environmental Reporting System (CERS). Walked through the facility and around the perimeter. Observed the following hazardous materials: - (1) 55-gallon drum of alliphatic hydrocarbon waste Assisted the business with CERS and explained the training requirements. Will give the business 30days to conduct the training, this item will be marked as "undetermined". All previous violations have been corrected. The site is in compliance.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-12-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On-site to perform a routine inspection. Walked through the facility and around the perimeter. Checked trash cans within the facility. Observed the following hazardous wastes: - (1) 55-gallon drum of alliphatic hydrocarbon waste A contingency plan is posted on the wall by the back door.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-24-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received an email from the facility that they have down sized the hazardous waste container from 55 to 30 gallons and submitted a photo. The business asked how to proceed. I reviewed the CERS submittal and did not accept Facility Information: Please uncheck Hazardous Materials "YES" and check "No". Leave "Yes" for a Hazardous Waste Generator since the waste is now stored in a 30 gallon drum. You will

WEST PARK CLEANERS (Continued) **S102417041**

not need to submit the Hazardous Materials Inventory/Site Map section for Hazardous Waste only below the reportable thresholds of at or above 55 gallons. Accepted Hazardous Materials Inventory/Site Map and Emergency Response Plan: Please delete or change the waste quantity to reflect what is at the site now. If below the reportable thresholds, you will not need to submit the Hazardous Materials Inventory/Site Map section for Hazardous Waste only below the reportable thresholds of at or above 55 gallons.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-23-2014
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Orange County Environmental Health as the Certified Unified Program Agency (OC CUPA) is the administrating agency for the Hazardous Materials Disclosure and Business Emergency Plan programs (HMD/BEP) previously administered by the Orange County Fire Authority. During the months of August and December of 2013, the OC CUPA sent out letters to regulated businesses requesting them to electronically submit their HMD/BEP forms. Electronic submission of these forms is a legal requirement. Failure to submit HMD/BEP forms is in violation of the California Health & Safety Code Chapter 6.95. According to our records there is no electronic submission for this facility. Please go to www.esubmit.ocgov.com to request a username and password and submit your HMD/BEP forms within the next 30 days. Businesses may also submit forms via the California Environmental Reporting System. Please verify that all owner information that is prepopulated on the E-Submit Portal is still [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File review to prep for inspection.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File review to prep for inspection.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency

WEST PARK CLEANERS (Continued) **S102417041**

Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-19-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-19-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspectors Jonathan Alaniz and Terry Carrier conducted the annual routine hazardous waste inspection on 1/19/16. Received consent from Shawn Kapoor to perform the inspection and take any necessary photos. Walked throughout the facility. Observed hazardous waste storage areas. The waste container was properly labeled. The container lid was not securely fastened. A violation was issued for the lid. The dumpster area was inspected and was found to be free of hazardous waste. Waste manifests were on site and available for review. Mr. Kapoor verified that all employees were trained to handle a release and that the waste container is inspected on a weekly basis. A copy of inspection report was emailed to Mr. Kapoor. A Certificate of Return to Compliance (CRC) was issued. Correct the above violations within 30 days and return the CRC.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This agency has received the signed CRC dated 1/26/16. Violation (I617) has been corrected and closed.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-11-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-28-2017
Violations Found:	No

WEST PARK CLEANERS (Continued) **S102417041**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Assisted Subash with CERS
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-02-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Hazardous Material Business Emergency Plan HMBEP inspection. Consent to inspect and take photos if necessary was granted by an employee, Patricia Ramos. No photos were taken on this date. The following disclosable hazardous materials were observed on this date: 188 gallons petroleum hydrocarbon solvent stored in three separate reservoirs in dry cleaning machine 55-gallon drum of hydrocarbon waste As of this date, a Hazardous Material Disclosure and Business Emergency Plan from this facility has not been received by this office. Please go to the California Environmental Reporting System http://cers.calepa.ca.gov/ and click on the ?Business Portal Sign In? link to set up an account. Please use CERS ID# 10541347. Failure to electronically submit your HMD/BEP forms within the next 30 days may result in the issuance of a Notice of Violation to the facility and/or an Administrative Enforcement Order. To learn more about the HMD/BEP program [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	419543
Site Name:	WESTPARK CLEANERS
Site Address:	3881 ALTON PKWY STE D
Site City:	IRVINE
Site Zip:	92606
Enf Action Date:	02-11-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Failure to electronically submit HMD/BEP.
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address

WEST PARK CLEANERS (Continued) **S102417041**

Entity Title:	Not reported
Affiliation Address:	3881 ALTON PKWY STE D
Affiliation City:	IRVINE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92606
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Mohammed Khan
Entity Title:	Not reported
Affiliation Address:	3881 ALTON PKWY STE D
Affiliation City:	IRVINE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92606
Affiliation Phone:	(213) 344-6000
Affiliation Type Desc:	Operator
Entity Name:	WESTPARK CLEANERS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(213) 344-6000
Affiliation Type Desc:	Document Preparer
Entity Name:	mohammed khan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Mohammed Khan
Entity Title:	Not reported
Affiliation Address:	3881 ALTON PKWY STE D
Affiliation City:	IRVINE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92606
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	mohammed khan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

WEST PARK CLEANERS (Continued) **S102417041**

Affiliation Type Desc:	Parent Corporation
Entity Name:	WESTPARK CLEANERS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

B4 **BIG 5 SPORTING GOODS #133** **RCRA NonGen / NLR** **1024851586**
3831 ALTON PKWY STE A **CAL000410178**
< 1/8 **IRVINE, CA 92606**
1 ft.

Site 1 of 13 in cluster B

Relative: **Lower**

Actual: **64 ft.**

RCRA NonGen / NLR:

Date form received by agency:	2015-09-14 00:00:00.0
Facility name:	BIG 5 SPORTING GOODS #133
Facility address:	3831 ALTON PKWY STE A IRVINE, CA 92606
EPA ID:	CAL000410178
Mailing address:	2525 E EL SEGUNDO BLVD EL SEGUNDO, CA 90245
Contact:	ROGER TANAKA EXT 5523
Contact address:	2525 E EL SEGUNDO BLVD EL SEGUNDO, CA 90245
Contact country:	Not reported
Contact telephone:	310-536-0611
Contact email:	ASHLEY.CAMPBELL@STERICYCLE.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BIG 5 CORP
Owner/operator address:	2525 E EL SEGUNDO BLVD EL SEGUNDO, CA 90245
Owner/operator country:	Not reported
Owner/operator telephone:	310-536-0611
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ROGER TANAKA EXT 5523
Owner/operator address:	2525 E EL SEGUNDO BLVD EL SEGUNDO, CA 90245
Owner/operator country:	Not reported
Owner/operator telephone:	310-536-0611
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported

BIG 5 SPORTING GOODS #133 (Continued) **1024851586**

Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

B5 **WEST PARK CLEANERS** **RCRA-SQG** **1000473166**
3831 ALTON PKWY **CAD982441982**
< 1/8 **IRVINE, CA 92614**
1 ft.

Site 2 of 13 in cluster B

Relative: RCRA-SQG:
Lower
Date form received by agency: 1991-04-26 00:00:00.0
Actual: Facility name: WEST PARK CLEANERS
64 ft. Facility address: 3831 ALTON PKWY
IRVINE, CA 92614
EPA ID: CAD982441982
Contact: ENVIRONMENTAL MANAGER
Contact address: 3831 ALTON PKWY
IRVINE, CA 92714
Contact country: US
Contact telephone: 714-531-4812
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ROYMA INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported

WEST PARK CLEANERS (Continued) **1000473166**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

B6 **WEST PARK CLEANERS** **RCRA-SQG 1000708811**
3831 ALTON PKWY **FINDS CAD982461527**
< 1/8 **IRVINE, CA 92614** **ECHO**
1 ft.

Site 3 of 13 in cluster B

Relative: Lower
Actual: 64 ft.

RCRA-SQG:
Date form received by agency: 1991-01-21 00:00:00.0
Facility name: WEST PARK CLEANERS
Facility address: 3831 ALTON PKWY
IRVINE, CA 92614
EPA ID: CAD982461527
Contact: ENVIRONMENTAL MANAGER
Contact address: 3831 ALTON PKWY
IRVINE, CA 92714
Contact country: US
Contact telephone: 714-252-0501
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator

WEST PARK CLEANERS (Continued) **1000708811**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ROYMA INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110008277916

Environmental Interest/Information System

WEST PARK CLEANERS (Continued) **1000708811**

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000708811
Registry ID:	110008277916
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008277916

A7 **WEST PARK CLEANERS, SUA INC.** **DRYCLEANERS** **S121693490**
3881 ALTON PKY UNIT D **N/A**
< 1/8 **IRVINE, CA 92606**
1 ft.

Site 4 of 9 in cluster A

Relative: Lower
Actual: 68 ft.

DRYCLEAN SOUTH COAST:

Name:	WEST PARK CLEANERS, SUA INC.
Address:	3881 ALTON PKY UNIT D
City,State,Zip:	IRVINE, CA 92606
Facility ID:	102548
Application Number:	296373
Permit Number:	D85365
Status:	S
Representative Name:	MOON SUK HAN
Representative Telephone:	949 2520501
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	424.63000488
UTM North:	3726.9619141

Name:	WEST PARK CLEANERS, SUA INC.
Address:	3881 ALTON PKY UNIT D
City,State,Zip:	IRVINE, CA 92606
Facility ID:	102548
Application Number:	345781
Permit Number:	F17056
Status:	S
Representative Name:	MOON SUK HAN
Representative Telephone:	949 2520501
Permit Status:	INACTIVE
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC

WEST PARK CLEANERS, SUA INC. (Continued) **S121693490**

CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 424.63000488
UTM North: 3726.9619141

Name: WEST PARK CLEANERS, SUA INC.
Address: 3881 ALTON PKY UNIT D
City,State,Zip: IRVINE, CA 92606
Facility ID: 102548
Application Number: 445228
Permit Number: Not reported
Status: S
Representative Name: MOON SUK HAN
Representative Telephone: 949 2520501
Permit Status: Not reported
BCAT Number: 000601
BCAT Description: DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 424.63000488
UTM North: 3726.9619141

Name: WEST PARK CLEANERS, SUA INC.
Address: 3881 ALTON PKY UNIT D
City,State,Zip: IRVINE, CA 92606
Facility ID: 102548
Application Number: 468675
Permit Number: F95756
Status: S
Representative Name: MOON SUK HAN
Representative Telephone: 949 2520501
Permit Status: INACTIVE
BCAT Number: 000603
BCAT Description: DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 424.63000488
UTM North: 3726.9619141

Name: WEST PARK CLEANERS, SUA INC.
Address: 3881 ALTON PKY UNIT D
City,State,Zip: IRVINE, CA 92606
Facility ID: 102548
Application Number: 505141
Permit Number: Not reported
Status: S
Representative Name: MOON SUK HAN
Representative Telephone: 949 2520501
Permit Status: Not reported
BCAT Number: 000233
BCAT Description: DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 424.63000488
UTM North: 3726.9619141

Name: WEST PARK CLEANERS, SUA INC.

WEST PARK CLEANERS, SUA INC. (Continued) **S121693490**

Address:	3881 ALTON PKY UNIT D
City,State,Zip:	IRVINE, CA 92606
Facility ID:	102548
Application Number:	517642
Permit Number:	G11877
Status:	S
Representative Name:	MOON SUK HAN
Representative Telephone:	949 2520501
Permit Status:	INACTIVE
BCAT Number:	000233
BCAT Description:	DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	424.63000488
UTM North:	3726.9619141

A8 **MSK ALLIANCE INC DBA WESTPARK CLEANERS** **RCRA NonGen / NLR** **1024863071**
3881 ALTON PKWY STE D **CAL000431609**
< 1/8 **IRVINE, CA 92606**
1 ft.

Site 5 of 9 in cluster A

Relative: **Lower**

Actual: **68 ft.**

RCRA NonGen / NLR:

Date form received by agency:	2017-10-19 00:00:00.0
Facility name:	MSK ALLIANCE INC DBA WESTPARK CLEANERS
Facility address:	3881 ALTON PKWY STE D IRVINE, CA 92606
EPA ID:	CAL000431609
Mailing address:	3881 ALTON PARKWAY SUITE D IRVINE, CA 92606-0000
Contact:	MOHAMMED SHEHZAD KHAN
Contact address:	3881 ALTON PKWY STE D IRVINE, CA 92606
Contact country:	Not reported
Contact telephone:	213-344-6000
Contact email:	SHEHZADKHAN@HOTMAIL.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MOHAMMED SHEHZAD KHAN
Owner/operator address:	3881 ALTON PKWY STE D IRVINE, CA 92606
Owner/operator country:	Not reported
Owner/operator telephone:	213-344-6000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MSK ALLIANCE INC.
Owner/operator address:	3881 ALTON PARKWAY #D IRVINE, CA 92606

MSK ALLIANCE INC DBA WESTPARK CLEANERS (Continued) **1024863071**

Owner/operator country: Not reported
Owner/operator telephone: 949-252-0501
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

A9 **ROYMA CORP** **DRYCLEANERS** **S121699573**
3881 ALTON PKY **N/A**
< 1/8 **IRVINE, CA 92714**
1 ft.

Site 6 of 9 in cluster A

Relative: Lower
Actual: 68 ft.

DRYCLEAN SOUTH COAST:
Name: ROYMA CORP
Address: 3881 ALTON PKY
City,State,Zip: IRVINE, CA 92714
Facility ID: 78986
Application Number: 228369
Permit Number: D25878
Status: S
Representative Name: JOHN CARLSON
Representative Telephone: 714 2520501
Permit Status: INACTIVE
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 0
UTM North: 0

A10 **WESTPARK CLEANERS, MSK ALLIANCE INC.** **DRYCLEANERS** **S121696806**
3881 ALTON PKY UNIT D **N/A**
< 1/8 **IRVINE, CA 92606**
1 ft.

Site 7 of 9 in cluster A

Relative: DRYCLEAN SOUTH COAST:
Lower

Name:	WESTPARK CLEANERS, MSK ALLIANCE INC.
Address:	3881 ALTON PKY UNIT D
City,State,Zip:	IRVINE, CA 92606
Facility ID:	185281
Application Number:	596386
Permit Number:	G47748
Status:	A
Representative Name:	SHEHZAD KHAN
Representative Telephone:	949 3313341
Permit Status:	ACTIVE
BCAT Number:	000233
BCAT Description:	DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	424.6499939
UTM North:	3726.9799805

Actual:
68 ft.

A11 **PARK CLEANERS** **DRYCLEANERS** **S121697191**
3881 ALTON PKY **N/A**
< 1/8 **IRVINE, CA 92714**
1 ft.

Site 8 of 9 in cluster A

Relative: DRYCLEAN SOUTH COAST:
Lower

Name:	PARK CLEANERS
Address:	3881 ALTON PKY
City,State,Zip:	IRVINE, CA 92714
Facility ID:	3509
Application Number:	10541A
Permit Number:	M35801
Status:	I
Representative Name:	UNKNOWN UNKNOWN
Representative Telephone:	714 7867132
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	0
UTM North:	0

Name:	PARK CLEANERS
Address:	3881 ALTON PKY
City,State,Zip:	IRVINE, CA 92714
Facility ID:	3509
Application Number:	13059X
Permit Number:	713059
Status:	I
Representative Name:	UNKNOWN UNKNOWN
Representative Telephone:	714 7867132
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE

Actual:
68 ft.

PARK CLEANERS (Continued) **S121697191**

CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 0
UTM North: 0

Name: PARK CLEANERS
Address: 3881 ALTON PKY
City,State,Zip: IRVINE, CA 92714
Facility ID: 3509
Application Number: 228362
Permit Number: D28629
Status: I
Representative Name: UNKNOWN UNKNOWN
Representative Telephone: 714 7867132
Permit Status: INACT_NR
BCAT Number: 000234
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number: 04
CCAT Description: VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East: 0
UTM North: 0

A12 **ROYMA INC** **EDR Hist Cleaner** **1018522442**
3881 ALTON PKY STE D **N/A**
< 1/8 **IRVINE, CA 92606**
1 ft.

Site 9 of 9 in cluster A

Relative: EDR Hist Cleaner
Lower

Actual: **68 ft.**

Year:	Name:	Type:
1991	ROYMA INC	Drycleaning Plants, Except Rugs, NEC
1992	ROYMA INC	Laundry And Drycleaner Agents
1993	ROYMA INC	Laundry And Drycleaner Agents
1994	ROYMA INC	Laundry And Drycleaner Agents
1995	ROYMA INC	Laundry And Drycleaner Agents
1996	ROYMA INC	Laundry And Drycleaner Agents

B13 **ALBERTSONS #3596** **CERS HAZ WASTE** **S113157585**
NW **3825 ALTON PKWY** **CERS** **N/A**
< 1/8 **IRVINE, CA 92606**
0.002 mi.
12 ft.

Site 4 of 13 in cluster B

Relative: CERS HAZ WASTE:
Lower
Name: ALBERTSONS #3596
Actual: Address: 3825 ALTON PKWY
64 ft. City,State,Zip: IRVINE, CA 92606
Site ID: 409311
CERS ID: 10139141
CERS Description: Hazardous Waste Generator

CERS:
Name: ALBERTSONS #3596
Address: 3825 ALTON PKWY
City,State,Zip: IRVINE, CA 92606

ALBERTSONS #3596 (Continued) **S113157585**

Site ID: 409311
CERS ID: 10139141
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-07-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. Jesus Sanchez, store director, was present for the inspection and provided consent to inspect. The facility?s operations and the waste generated were discussed. The inspection included a walk behind the building. I did not observe hazardous waste in the facility's trash or as run off on the ground. The storage of the shop's hazardous waste was inspected. No waste was in storage. The facility had just completed a removal of its waste the day prior. The facility's hazardous waste removal records were on site and available for inspection. The records, which included signed off manifests, were reviewed. The facility provided written spill response directions and emergency contact information for their employees.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-07-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous materials chemical inventory and business emergency plan (HMBEP) inspection. Jesus Sanchez, store director, and Robert Kunic, receiver, were present for the inspection and provided consent to inspect. The inspection was to confirm the facility?s electronic hazardous materials disclosure and business plan. We reviewed the facility?s Hazardous material inventory on site. We confirmed the locations of the required items to be mapped. The facility utilizes CERS (California Environmental Reporting System) for their electronic HMBEP submissions. Inspection found minor revisions to the facility?s map to be requested. Revisions will be requested via CERS. Facility conducts annual employee safety procedure training in the event of a release or a threatened release of hazardous material and will maintain records of topics covered and employees trained.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-11-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: reviewed submissions on CERS. 2-24-17 inventory - not accepted. > Freon R22 - CAS # must be properly written (75-45-6). > Site map - please identify locations of facility's fire risers and closest fire hydrants. 2-24-17 plans - not accepted. > emergency contact numbers - facility's emergency coordinator phone number and local administrating CUPA/ OCHCA's phone number (714 433 6000) were missing. It appears that data did not transfer over from ESubmit. Please replace.
Eval Division: Orange County Environmental Health

ALBERTSONS #3596 (Continued) **S113157585**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-27-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: 7/27/16 Your submission has been reviewed and accepted. Thank you
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-18-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a routine hazardous materials business emergency plan HMBEP inspection. The Assistant Store Director, Mike Petriccione gave consent to inspect the facility and take photos (if necessary). The following materials were present in the following locations: (4) Helium cylinders 260 cubic feet in the produce receiving area (1) Helium cylinder 260 cubic feet in the floral department Refrigerants were present in the upstairs compressor room and associated piping and refrigerators/freezers throughout the facility. An HMBEP is currently available in the E-Submit Portal and the Environmental Contact, Jill Washburn is coordinating changes to the submittal. A copy of this report will be sent to the Assistant Store Director, Mike Petriccione via email to s06596.dir@albertsons.com
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-18-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a routine hazardous waste inspection. The Assistant Store Director, Mike Petriccione gave consent to inspect the facility and take photos (if necessary). A walk-through of the facility, dumpster area and perimeter was conducted. There was no hazardous waste observed in the dumpster on this date. No photos were taken during this inspection. The following 5-gallon buckets were observed in the hazardous waste storage area in back of the store: (8) marked ?Toxic? (1) marked ?Oxidizer? (2) marked ?Universal Waste? (2) marked ?Aerosol/Flammable? There was a pallet containing (24) 5-gallon buckets of waste ready to be picked up by the hauler on a storage shelf above the hazardous waste storage area. All waste containers were observed stored closed and properly labeled. The hazardous waste manifests and weekly inspection log were reviewed. The number of employees at this facility is 68. There were no hazardous waste violations observed on this [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-18-2014

ALBERTSONS #3596 (Continued) **S113157585**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File review prior to A21.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-18-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and declined HMBEP.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-29-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The HMBEP submittal dated 09/26/2014 has been reviewed and ACCEPTED. A copy of this report will be sent to the assistant store director and the environmental contact via email.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-20-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Read/review 2015 HMBEP. Accepted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 409311
Facility Name: Albertsons #3596
Env Int Type Code: HMBP
Program ID: 10139141
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.682810
Longitude: -117.812870

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Jill Washburn
Entity Title: Environmental Coordinator
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

ALBERTSONS #3596 (Continued) **S113157585**

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Jill Washburn
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Albertsons
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Jill Washburn
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise
Affiliation State:	ID
Affiliation Country:	Not reported
Affiliation Zip:	83726
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise
Affiliation State:	ID
Affiliation Country:	Not reported
Affiliation Zip:	83726
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Albertsons LLC
Entity Title:	Not reported
Affiliation Address:	PO Box 20, Dept. #81014
Affiliation City:	Boise
Affiliation State:	ID
Affiliation Country:	United States

ALBERTSONS #3596 (Continued) **S113157585**

Affiliation Zip:	83726
Affiliation Phone:	(208) 395-3949
Affiliation Type Desc:	Operator
Entity Name:	Albertsons #3596
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(949) 476-1922

B14 **ALBERTSONS #3596/#6596** **RCRA-LQG** **1024876933**
NW **3825 ALTON PKWY** **CAR000284232**
< 1/8 **IRVINE, CA 92606**
0.002 mi.
12 ft. **Site 5 of 13 in cluster B**

Relative:
Lower

Actual:
64 ft.

RCRA-LQG:

Date form received by agency:	2018-05-30 00:00:00.0
Facility name:	ALBERTSONS #3596/#6596
Facility address:	3825 ALTON PKWY IRVINE, CA 92606
EPA ID:	CAR000284232
Mailing address:	E PARKCENTER BLVD DEPT. 81014 BOISE, ID 83706
Contact:	ERICA FRANSEN
Contact address:	E PARKCENTER BLVD DEPT. 81014 BOISE, ID 83706
Contact country:	US
Contact telephone:	208-395-4793
Contact email:	ERICA.FRANSEN@ALBERTSONS.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	ALBERTSONS, LLC
Owner/operator address:	E. PARKCENTER BLVD. DEPT. 81014 BOISE, ID 83706
Owner/operator country:	US
Owner/operator telephone:	208-395-4793
Owner/operator email:	ERICA.FRANSEN@ALBERTSONS.COM
Owner/operator fax:	208-395-4508

ALBERTSONS #3596/#6596 (Continued) **1024876933**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 1989-12-19 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: ALBERTSONS #3596/#6596
Owner/operator address: E. PARKCENTER BLVD. DEPT. 81014
BOISE, ID 83706
Owner/operator country: US
Owner/operator telephone: 208-395-4793
Owner/operator email: ERICA.FRANSEN@ALBERTSONS.COM
Owner/operator fax: 208-395-4508
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 1989-12-19 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

ALBERTSONS #3596/#6596 (Continued) **1024876933**

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

Violation Status: No violations found

B15 **MARSHALLS 0658** **RCRA NonGen / NLR** **1024847197**
NW **3781 ALTON PKWY** **CAL000401890**
< 1/8 **IRVINE, CA 92606**
0.026 mi.
135 ft. **Site 6 of 13 in cluster B**

Relative:
Lower

Actual:
63 ft.

RCRA NonGen / NLR:
Date form received by agency: 2014-11-04 00:00:00.0
Facility name: MARSHALLS 0658
Facility address: 3781 ALTON PKWY
IRVINE, CA 92606
EPA ID: CAL000401890
Mailing address: 770 COCHITUATE RD
FRAMINGHAM, MA 01701
Contact: PAUL KANGAS
Contact address: 770 COCHITUATE RD 300.1AN
FRAMINGHAM, MA 01701
Contact country: Not reported
Contact telephone: 774-308-3651
Contact email: PAUL_KANGAS@TJX.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MARSHALLS OF CA LLC
Owner/operator address: 770 COCHITUATE RD
FRAMINGHAM, MA 01701

MARSHALLS 0658 (Continued) **1024847197**

Owner/operator country:	Not reported
Owner/operator telephone:	774-308-3651
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	PAUL KANGAS
Owner/operator address:	770 COCHITUATE RD 300.1AN FRAMINGHAM, MA 01701
Owner/operator country:	Not reported
Owner/operator telephone:	774-308-3651
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

B16 **MARSHALLS 0658** **CERS HAZ WASTE** **S117311134**
NW **3781 ALTON PKWY** **HAZNET** **N/A**
< 1/8 **IRVINE, CA 92606**
0.026 mi.
135 ft. **Site 7 of 13 in cluster B**

Relative:
Lower

Actual:
63 ft.

CERS HAZ WASTE:

Name:	MARSHALLS 0658
Address:	3781 ALTON PKWY
City,State,Zip:	IRVINE, CA 92606
Site ID:	133122
CERS ID:	10488385
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	02-19-2016

MARSHALLS 0658 (Continued) **S117311134**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	2016 submittal CERS review: Facility reporting as HW generator only
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-05-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for a routine hazardous waste inspection. Observed facility and inspected hazardous waste storage areas. Permission to conduct the inspection was granted by Rocio Duarte . Facility generates the following hazardous wastes: retail waste items Containers of hazardous waste were stored closed and properly labeled. Containers appeared to be in good condition. Emergency information is posted. Employees received hazardous waste management training. Manifests were on site and available for review. Facility is currently assigned and using active EPA ID Number CAL000401890. Inspected perimeter of the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-23-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Approval. The following documents were received and ACCEPTED on the eSubmit Portal: Business Activities Form Business Owner/Operator Form Chemical Inventory for (# of chemicals) Facility Site Map
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	133122
Facility Name:	Marshalls 0658
Env Int Type Code:	HWG
Program ID:	10488385
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.682640
Longitude:	-117.816370

Affiliation:

Affiliation Type Desc:	Identification Signer
Entity Name:	Paul Kangas
Entity Title:	SVP, Chief Compliance Officer
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

MARSHALLS 0658 (Continued) **S117311134**

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Operator
Entity Name:	Marshalls
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(774) 308-3651

Affiliation Type Desc:	Environmental Contact
Entity Name:	Paul Kangas
Entity Title:	Not reported
Affiliation Address:	770 Cochituate Road 300.1AN
Affiliation City:	Framingham
Affiliation State:	MA
Affiliation Country:	Not reported
Affiliation Zip:	01701
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	The TJX Companies, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Susan Allen
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	770 Cochituate Road
Affiliation City:	Framingham
Affiliation State:	MA
Affiliation Country:	Not reported

MARSHALLS 0658 (Continued) **S117311134**

Affiliation Zip:	01701
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Marshalls of CA, LLC
Entity Title:	Not reported
Affiliation Address:	770 Cochituate Road
Affiliation City:	Framingham
Affiliation State:	MA
Affiliation Country:	United States
Affiliation Zip:	01701
Affiliation Phone:	(774) 308-3651

HAZNET:

Name:	MARSHALLS 0658
Address:	3781 ALTON PKWY
City,State,Zip:	IRVINE, CA 92606
Year:	2014
GEPAID:	CAL000382981
Contact:	PAUL KANGAS
Telephone:	7743083651
Mailing Name:	Not reported
Mailing Address:	770 COCHITUATE RD
Mailing City,St,Zip:	FRAMINGHAM, MA 01701
Gen County:	Orange
TSD EPA ID:	INR000110197
TSD County:	Not reported
Tons:	0.07
CA Waste Code:	331-Off-specification, aged or surplus organics
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Name:	MARSHALLS 0658
Address:	3781 ALTON PKWY
City,State,Zip:	IRVINE, CA 92606
Year:	2014
GEPAID:	CAL000382981
Contact:	PAUL KANGAS
Telephone:	7743083651
Mailing Name:	Not reported
Mailing Address:	770 COCHITUATE RD
Mailing City,St,Zip:	FRAMINGHAM, MA 01701
Gen County:	Orange
TSD EPA ID:	INR000110197
TSD County:	Not reported
Tons:	0.045
CA Waste Code:	-
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Name:	MARSHALLS 0658
Address:	3781 ALTON PKWY
City,State,Zip:	IRVINE, CA 92606
Year:	2013

MARSHALLS 0658 (Continued) **S117311134**

GEPAID: CAL000382981
Contact: PAUL KANGAS
Telephone: 7743083651
Mailing Name: Not reported
Mailing Address: 770 COCHITUATE RD
Mailing City,St,Zip: FRAMINGHAM, MA 01701
Gen County: Orange
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Tons: 0.0475
CA Waste Code: -
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Name: MARSHALLS 0658
Address: 3781 ALTON PKWY
City,State,Zip: IRVINE, CA 92606
Year: 2013
GEPAID: CAL000382981
Contact: PAUL KANGAS
Telephone: 7743083651
Mailing Name: Not reported
Mailing Address: 770 COCHITUATE RD
Mailing City,St,Zip: FRAMINGHAM, MA 01701
Gen County: Orange
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Tons: 0.014
CA Waste Code: 331-Off-specification, aged or surplus organics
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

B17 **SPROUTS FARMERS MARKET #206** **CERS HAZ WASTE** **S123534072**
NW **3775 ALTON PKWY** **CERS** **N/A**
< 1/8 **IRVINE, CA 92606**
0.030 mi.
159 ft. **Site 8 of 13 in cluster B**

Relative: **Lower**
Actual: **62 ft.**

CERS HAZ WASTE:
Name: SPROUTS FARMERS MARKET #206
Address: 3775 ALTON PKWY
City,State,Zip: IRVINE, CA 92606
Site ID: 70758
CERS ID: 10405543
CERS Description: Hazardous Waste Generator

CERS:
Name: SPROUTS FARMERS MARKET #206
Address: 3775 ALTON PKWY
City,State,Zip: IRVINE, CA 92606
Site ID: 70758
CERS ID: 10405543
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection

SPROUTS FARMERS MARKET #206 (Continued) **S123534072**

Eval Date:	06-05-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	New Program: Sprouts Farmers Market #206, 3775 Alton Parkway, Irvine 92606 Met with Adrian Zamarron, Store Manager, at the facility and walked through the facility and checked trash receptacles. The store did certify as a hazardous waste generator with an EPA identification number but to date has not stored/generated any hazardous wastes. Prior to the certification the site was donating the materials. As soon as the store begins to store/dispose of hazardous wastes please notify this office. Employees are trained and have access to the Emergency Response Plan as their Contingency Plan.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	70758
Facility Name:	Sprouts Farmers Market #206
Env Int Type Code:	HMBP
Program ID:	10405543
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.682470
Longitude:	-117.814710

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Shaneen Beebe
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Luis A. Torres
Entity Title:	Not reported
Affiliation Address:	5455 East High Street, Suite 111
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	Not reported
Affiliation Zip:	85054
Affiliation Phone:	Not reported

SPROUTS FARMERS MARKET #206 (Continued) **S123534072**

Affiliation Type Desc:	Identification Signer
Entity Name:	Shaneen Beebe for
Entity Title:	Environmental Consultant for Store Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	SF Markets, LLC.
Entity Title:	Not reported
Affiliation Address:	5455 East High Street, Suite 111
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	United States
Affiliation Zip:	85054
Affiliation Phone:	(480) 814-8016

Affiliation Type Desc:	Parent Corporation
Entity Name:	Sprouts Farmers Market
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	SF Markets, LLC.
Entity Title:	Not reported
Affiliation Address:	5455 East High Street, Suite 111
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	United States
Affiliation Zip:	85054
Affiliation Phone:	(480) 814-8016

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	5455 East High Street, Suite 111
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	Not reported
Affiliation Zip:	85054
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Sprouts Farmers Market #206
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

SPROUTS FARMERS MARKET #206 (Continued) **S123534072**

Affiliation Zip: Not reported
Affiliation Phone: (949) 705-5435

B18 **EXXON MOBIL CORPORATION** **EDR Hist Auto** **1020126417**
WNW **3765 ALTON PKWY** **N/A**
< 1/8 **IRVINE, CA 92606**
0.038 mi.
199 ft. **Site 9 of 13 in cluster B**

Relative: EDR Hist Auto
Lower

Actual: **62 ft.**

Year:	Name:	Type:
2007	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2008	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2009	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2010	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2011	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2012	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2013	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC
2014	EXXON MOBIL CORPORATION	Gasoline Service Stations, NEC

B19 **CIRCLE K STORE #2709461** **RCRA NonGen / NLR** **1024831936**
WNW **3765 ALTON PKWY** **CAL000369545**
< 1/8 **IRVINE, CA 92606**
0.038 mi.
199 ft. **Site 10 of 13 in cluster B**

Relative: RCRA NonGen / NLR:
Lower

Actual: **62 ft.**

Date form received by agency: 2011-12-01 00:00:00.0
Facility name: CIRCLE K STORE #2709461
Facility address: 3765 ALTON PKWY
IRVINE, CA 92606-8293
EPA ID: CAL000369545
Mailing address: 255 E RINCON ST STE 100
CORONA, CA 92879-0000
Contact: KRISTI HODGE
Contact address: 255 E. RINCON ST. SUITE 100
CORONA, CA 92879
Contact country: Not reported
Contact telephone: 951-270-5153
Contact email: KHODGE@CIRCLEK.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: KRISTI HODGE
Owner/operator address: 255 E. RINCON ST. SUITE 100
CORONA, CA 92879
Owner/operator country: Not reported
Owner/operator telephone: 951-270-5153
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other

CIRCLE K STORE #2709461 (Continued) **1024831936**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CIRCLE K STORES INC
Owner/operator address: 255 E RINCON ST STE 100
CORONA, CA 92879
Owner/operator country: Not reported
Owner/operator telephone: 951-270-5153
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

B20 **CIRCLE K STORES INC. SITE #2709461** **CERS HAZ WASTE** **S103978019**
WNW **3765 ALTON PKWY** **CERS TANKS** **N/A**
< 1/8 **IRVINE, CA 92606** **CHMIRS**
0.038 mi. **CERS**
199 ft. **Site 11 of 13 in cluster B**

Relative: Lower
Actual: 62 ft.

CERS HAZ WASTE:
Name: CIRCLE K STORES INC. SITE #2709461
Address: 3765 ALTON PKWY
City,State,Zip: IRVINE, CA 92606
Site ID: 105686
CERS ID: 10166791
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: CIRCLE K STORES INC. SITE #2709461
Address: 3765 ALTON PKWY
City,State,Zip: IRVINE, CA 92606
Site ID: 105686
CERS ID: 10166791
CERS Description: Underground Storage Tank

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

CHMIRS:

Name:	Not reported
Address:	3765 ALTON PARKWAY
City,State,Zip:	IRVINE, CA
OES Incident Number:	0-3439
OES notification:	08/01/2000
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Storm Drain Catch Basin
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	Tanknology
Incident Date:	7/31/200012:00:00 AM
Admin Agency:	Orange County Emergency Managment Div
Amount:	Not reported
Contained:	Yes
Site Type:	Service Station
E Date:	Not reported
Substance:	Gasoline
Gallons:	unk
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Surface spill cased by customer drive off
Name:	Not reported
Address:	3765 ALTON PARKWAY
City,State,Zip:	IRVINE, CA
OES Incident Number:	3-3204
OES notification:	06/24/2003
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2003

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Agency:	Veeder Root
Incident Date:	6/24/200312:00:00 AM
Admin Agency:	Orange County Emergency Managment Div
Amount:	Not reported
Contained:	Yes
Site Type:	Service Station
E Date:	Not reported
Substance:	gasoline
Gallons:	5
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Auto shut off failed causing the spill.

CERS:

Name:	CIRCLE K STORES INC. SITE #2709461
Address:	3765 ALTON PKWY
City,State,Zip:	IRVINE, CA 92606
Site ID:	105686
CERS ID:	10166791
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	06-02-2016
Citation:	23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description:	Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes:	Returned to compliance on 06/30/2016. The sleeve designed to hold the sump sensor in place in the 91 STP was observed on the wrong side of the tank apex. Please ensure the sensor is placed in the correct location in the sump to detect a leak at the earliest opportunity.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	11-13-2018
Citation:	23 CCR 16 2632(d)(1)(c),2641(h),2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(c),2641(h),2711(a)(8)

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Violation Description:	Failure to submit or maintain a current facility plot plan.
Violation Notes:	Returned to compliance on 11/29/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	06-02-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/12/2017. Please revise the Hazardous Materials Inventory pages to reflect the correct volumes of hazardous materials stored onsite.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	06-19-2014
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to properly close hazardous waste containers when not in active use.
Violation Notes:	The bung on the waste liquid drum was observed open. The manager immediately closed the drum.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	04-28-2014
Citation:	HSC 6.7 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25292(e)
Violation Description:	Failure to maintain secondary containment, as evidenced by failure of secondary containment testing.
Violation Notes:	Returned to compliance on 09/16/2014. The following components failed testing: 87 secondary pipe, UDCs 1/2 and 5/6, 91 fill sump.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	06-02-2016
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes:	Returned to compliance on 06/30/2016. The VR-208 sensor in the 91 STP sump was observed with a wire splice between the sensor and electrical

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

	junction box. Sensors must be wired in accordance with manufacturer specifications.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	11-13-2018
Citation:	23 CCR 16 2712(i), 2632(d)(2), 2634(e), 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i), 2632(d)(2), 2634(e), 2641(h)
Violation Description:	Failure to submit a current UST Response Plan available on site.
Violation Notes:	Returned to compliance on 11/29/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	06-10-2015
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or 2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 06/10/2015. Primary overfill protection is provided in each tank by an ATG connected to the outside annunciator. The technician noted that the light bulb on the outside annunciator was not functional when overfill was tested and he replaced the bulb. This violation has been corrected.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	105686
Site Name:	Circle K Stores Inc. Site #2709461
Violation Date:	06-10-2015
Citation:	23 CCR 16 2632, 2634, 2636, 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2636, 2666
Violation Description:	Failure of the leak detection equipment to be properly programmed or properly operated.
Violation Notes:	Returned to compliance on 06/10/2015. The VR-208 sensor in the 91 STP sump would not trigger an alarm when immersed in water. The technician cleaned the sensor and he stated it was functional upon retest.
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Site ID: 105686
Site Name: Circle K Stores Inc. Site #2709461
Violation Date: 06-19-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: The hazardous waste label on the waste liquid drum did not contain the physical state. The manager immediately added the word "liquid" to the label.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 105686
Site Name: Circle K Stores Inc. Site #2709461
Violation Date: 06-02-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 06/12/2017. Please amend ?California Annotated Site Map #1? to include the storm drain and fire hydrant observed to the southeast of the property (toward the movie theater), and add the location of the water shut-off.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-22-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted UST submittals.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-31-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB 989 test notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB 989 test reschedule notification for 3-3-17
Eval Division: Orange County Environmental Health
Eval Program: UST

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-14-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST notification update
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-18-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB 989 test notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-26-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: Accept BA/OW page
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-26-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST submittal declined in CERS due to: Please include the following components on the site map: location of the annular sensors, turbine sump sensors, fill sump sensors, UDC sensors, LLDs, and piping. Submitted the following: - CFR: valid through 12/1/16 - DO statement: DO = Ideco personnel
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-03-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: reviewed submissions on CERS. 11-15-16 UST - not accepted - most recent submission will be reviewed. 12-8-16 UST - not accepted. Previous Reviewer comments were not addressed. 10-24-16 "Comments by regulator: The Leak Sensor on the 87 Monitor Plan is Veeder-Root 303 NOT 302. Additionally, make the corresponding correction to the UST Monitoring Site Plan." Please contact me if you should have any questions. Joyce Krall / Jkrall@ochca.com / 714 640 9685.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Eval General Type:	Other/Unknown
Eval Date:	03-04-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	reviewed facility's submissions on CERS. 11-15-16 facility - accepted 12-8-16 facility - accepted 11-15-16 plans - accepted.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-06-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor Certification Notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-07-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-07-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed HMBEP submission package 10166791 on CERS, DENIED. Request for re-submittal this date. 4/7/14 Reviewed by Dean Freed dfreed@ochca.com Submittal has been declined. Please modify per list below and resubmit: 1. Submit unleaded gasoline as one disclosure and select "pure" not mixture 2. Add "test water" if stored in 55 gal drum, disclose as waste mixture 3. Add Fire Code Hazard Class to High Pressure Soap and Lemon Bead Wax 4. CO2- disclose in cubic feet, not gallons, review pressure and temperature. If less than 1000 cuft compressed gas, do not disclose. Disclose CO2 if cryogenic. 5. Map-illegible; show internal roads, station is not actually at the corner of Paseo West Park and Alton as your map shows, add storm drains/sewer.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-15-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Eval General Type:	Other/Unknown
Eval Date:	04-19-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspection scheduling, CERS UST print-out
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-19-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspection scheduling, CERS UST print-out
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-28-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SR0123626 Circle K #2709461 3765 Alton Parkway Irvine, CA 92606 Received, reviewed and approved plans for the replacement of: bottom-entry piping penetration fittings, existing electrical penetration fittings and flex connector fittings on all dispenser UDCs; and install product piping and electrical penetration repair fittings in the 91 fill sump. Called Ted Stephenson to let him know they have been approved and are ready to be picked up.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-28-2014
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received SB989 test results showing failed components and a UST Facility Modification Application SR#0123626. Reviewed and approved plans for the replacement of: bottom-entry piping penetration fittings, existing electrical penetration fittings and flex connector fittings on all dispenser UDCs; and install product piping and electrical penetration repair fittings in the 91 fill sump. Called Ted Stephenson to let him know they have been approved and are ready to be picked up. A copy of this report was sent to the mailing address above.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-12-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-16-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Annulars are ?wet?. Sensors shut down respective turbine at sensor out, low and high liquid levels. Sump sensors alarmed properly (visual and audible) and shut down respective turbine when submerged in water. UDC sensors alarmed properly (visual and audible) and shut down all turbines when submerged in water. Fail-safe and sensor out and emergency shut off were tested and passed. Line leak detectors were tested and passed. All ATGs were tested and passed test with the enunciator functioning properly. Spill buckets were tested visually without any changes in water level. Valid permit, designated operator documentation, monthly inspection reports, responses to alarms, monitoring plan, response plan, employee training records, tank pages, certification of financial responsibility, copies of monitoring system certification and secondary [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Monitor cert notification
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-22-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	reviewed submission s in CERS. prep for inspection. 3-17-17 UST info - accepted.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for a routine hazardous waste inspection. Amrik Singh, manager, was present for the inspection and provided consent to inspect. I did not observe hazardous waste in the facility's trash or as run off on the ground. The storage of the shop's hazardous waste was inspected. The storage containers were stored closed and labeled. The signed off manifests for the removal of the facility's hazardous waste were on site and available for inspection. The records were reviewed. The facility had written spill response directions and emergency contact numbers on site for the employees

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-23-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine UST inspection during the facility's annual UST Monitoring System Certification and spill bucket testing. Amrik Singh, manager, was present for the inspection. The UST testing technician was Daniel Frisbee of Ideco. His testing credentials were provided for review and were current. The facility operates one 10K premium gasoline DW UST system and one 20K regular gasoline DW UST system. The facility utilizes a Veeder-root UST monitoring system. The monitoring panel was observed in operation. The UST monitoring set up and alarm history were provided for review. The UST sumps and UDCs were open for inspection. The sump and UDC sensors were observed positioned at low points. The UDCs were observed dry. The fuel tanks use ATGs at 90% overfill visual / audible alarms for their overfill protection. Electronic leak detectors were in use. 208 sensors monitored the sumps and UDC. 302 sensor monitored the premium tank annular. 303 sensor the [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-23-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-25-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	From: Krall, Joyce Sent: Thursday, May 25, 2017 3:59 PM To: 'khodge@circlek.com' <khodge@circlek.com> Subject: HW AND UST INSPECTIONS / STATION #2709461 Importance: High Hello Kristi, A thank you to Amrik for his work on the inspections. Attached are the reports. Please contact me if you have any questions. >I noted that the facility?s SB989 was completed 3-3-17. I cannot locate a copy of the test report in my office. Please send me a copy of the report as soon as possible. >Also, I have a question. This facility has a sensor on line identified as ?L7: S.E. monitoring well?. The sensor is located in a small baffled sump, with cover, approximately 4 feet in depth, located close to a GW monitoring well. The sump had no piping for input or output. The sump had some muck on its interior floor but was otherwise dry. What was the purpose of the sump? What was the sensor monitoring? I am so curious and this one had me stumped. Please advise. Thank Krall, REHS [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-02-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine Hazardous Material Business Emergency Plan HMBEP inspection. Consent to inspect and take photos if necessary was granted by the assistant manager, Jay Bolorchi. No photos were taken on this date. The following disclosable hazardous materials were observed on this date: 30,000 gallons of gasoline in USTs 3 x 55-gallon drums of Blue Coral 2 x 30-gallon drums of unknown carwash solution 10 x 15-gallon containers of clear coat liquid 2610 cu. ft. tank of carbon dioxide The CERS submittal dated 3/1/16 was reviewed onsite during this inspection. Please revise the Hazardous Materials Inventory pages to reflect the correct volumes of hazardous materials stored onsite. Please amend ?California Annotated Site Map #1? to include the storm drain and fire hydrant observed to the southeast of the property (toward the movie theater), and add the location of the water shut-off. A copy of this report will be sent to tpiceno@circlek.com
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-02-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine UST inspection during the annual monitoring system certification. Daniel Frisbee of Ideco provided the following valid credentials: ICC, Veeder-Root, VMI. The assistant manager, Jay Bolorchi was also present during this inspection. There is one 87 tank and one 91 tank. Primary overfill protection is provided in each tank by an ATG connected to the outside annunciator. Veeder-Root 208 sensors are in use in the fill sumps, STP sumps, all six UDCs and a south east monitoring well. The 91 tank has a VR-302 sensor in the wet annular. The 87 tank has a VR-303 sensor in the wet annular. The system is monitored by a Veeder-Root TLS-350 panel. The VR-208 sensor in the 91 STP sump was observed with a wire splice between the sensor and electrical junction box. The sleeve designed to hold the sump sensor in place in the 91 STP was observed on the wrong side of the tank apex. Please ensure the sensor is placed in the correct location in the sump to a at [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-10-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On-site to conduct a routine UST inspection during the annual monitoring system certification. Al Queiros of Ideco provide the following certifications: ICC tech 5053226 exp. 5/6/17, Veeder-Root tech A29369 exp. 5/16/16, VMI #1738 exp. 1/23/16. Mahin Kasaei (employee) was also present during this inspection. There is one 87

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

tank and one 91 tank. Primary overfill protection is provided in each tank by an ATG connected to the outside annunciator. Veeder-Root 208 sensors are in use in the fill sumps, STP sumps, all 6 UDCs and a south east monitoring well. The 91 tank has a VR-302 sensor in the wet annular and a Mag Plus ATG. The 87 tank has a VR-301 sensor in the wet annular and a Mag 1 ATG. The system is monitored by a Veeder-Root TLS-350 panel. The technician noted that the light bulb on the outside annunciator was not functional when overfill was tested and he replaced the bulb. There was approximately 2 inches of water in the 91 STP sump. The VR-208 sensor in the 91 [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-19-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On-site to conduct a routine UST inspection during the annual monitoring system certification. Daniel Frisbee of Ideco provided the following certifications: VMI tester #2718 exp. 6/8/16, ICC tech #8175605 exp. 11/11/15, Veeder-Root tech #B34994 exp. 1/19/16. Ben Bhullar (store manager) was also present during this inspection. There is one 87 tank and one 91 tank. Primary overfill protection is provided in each tank by an ATG connected to the outside annunciator. Veeder-Root 208 sensors are in use in the fill sumps, STP sumps, all 6 UDCs and a south east monitoring well. VR-303 sensors are in use in the wet annulars. The system is monitored by a Veeder-Root TLS-350 panel. The following were reviewed: Permit Facility Info page 11/9/11 Tank Info pages 11/9/11 Monitoring Plan 11/9/11 Response Plan 11/9/11 Monitor Cert 6/27/13 SB989 3/3/14 DO Statement 9/17/13 DO Training 4/4/14 CFR 11/29/13 No UST violations were observed on this date. A copy of this [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-19-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On-site to conduct a routine hazardous waste inspection. A walk of the perimeter, waste storage area and dumpster area was conducted with Ben Bhullar, store manager. There was no hazardous waste observed in the dumpster. The following were observed: 55-gallon drum of fuel/water mixture 55-gallon drum of fuel contaminated solids Hazardous waste disposal documents were reviewed. The waste liquid drum was observed open and the hazardous waste label was missing the physical state. The manager immedately corrected these violations. There are no outstanding violations. A copy of this report will be sent to Tonya Piceno via email to TPiceno@CircleK.com

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-25-2014

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Monitoring System Certification dated 6/19/14. The report indicated all components that were tested passed. A copy of this report will be sent to Tonya Piceno via email to tpiceno@circlek.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-30-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received email correspondence dated 6/28/16 from Kristi Hodge, Environmental Compliance Specialist. Sufficient documentation was provided to demonstrate that violations I096 and I052 cited on 6/2/16 have been corrected. No additional UST violations are outstanding. A copy of this report will be sent to khodge@circlek.com
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-05-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documents were received by this Agency on 6/6/18: - Monitoring system certification dated 5/16/18 - Spill bucket test report dated 5/16/18 ALL COMPONENTS PASSED
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-06-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received a Monitoring System Certification and UST Monitoring Site Plan dated 6/10/15 from Al Queiros. A copy of this report will be sent to the address above.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SR#0123626 On-site to conduct final inspection for UST tank modification. Piping was pressurized to 5.1 psi for 60 minutes (covered). Visually inspected UDC boots when submerged in water for signs of leakage. At the end of the test period, there was no indication of leakage. Hydrostatic testing of the 91 fill sump and UDCs (Pump Stations 1/2, 3/4, 5/6, 7/8, 9/10, 11/12) passed two consecutive 15 minute test using an INCON testing device. Pressurized secondary pipe and UDC hydrostatic testing were performed by Saul Gonzalez of Belshire. Tester certifications were verified: ICC,

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

	Franklin Final Inspection = Pass
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-29-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received electronic monitor certification pressure loss leak detector certification and spill bucket test results dated 6 27 13. All components--PASS. Copy to facility
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-03-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Monitoring System Certification dated 6/2/16. The results indicate all components that were tested passed. Copy to be sent to main file.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP site map declined. Please amend ?California Annotated Site Map #1? to include the storm drain and fire hydrant observed to the southeast of the property (toward the movie theater). RUR submitted for PE code.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Secondary Containment Testing Report Form dated 7/18/14 indicating all components that were tested passed. SR0123626 will be closed on this date.
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received Secondary Containment Testing Report Form dated 7/18/14 indicating the following components were tested and passed: UDCs 1/2, 3/4, 5/6, 7/8, 9/10, 11/12; 91 fill sump; 87 and 91 secondary piping.

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

This testing completes the SB989 testing initiated on 3/3/14. Violation TM02 has been abated. No additional UST violations remain outstanding. A copy of this report will be sent to the site contact.

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This Agency received the faiclty's secondary containment testing report for activities conducted on 7-24-17. The tested components, 91 product seconday and UDC 3/4 were tested after repairs (installation of test boot) and reported as passed.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-16-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review 10/16/15.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-16-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review 10/16/15.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-24-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and NOT ACCEPTED CERS UST submittal dated 8/26/16.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-13-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Based on a review of the California Environmental Reporting System submittal review dated 10-26-18, the site has failed to electronically certify an accurate and complete submittal for 2018. The submittal is missing the monitoring site plan/site plot plan. Violation #I161 has been cited against the facility. Please submit an updated plan within 30 days. The response plan is not up-to-date, Ms. Hodge is no longer the responsible person/Environmental Compliance Specialist for the

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

site. Violation I673 has been cited against the facility. Please submit an updated plan within 30 days. Please note: - The overfill protection selected is ATG and Ball Float - need to make sure the overfill protection testing has been performed and ATG is at 90% - The CFR coverage period is 12/1/17 through 12/1/18, make sure to keep this up-to-date. Please be advised that new regulations were put into effect as of 10/1 and if any repairs/modifications are required for the following, a [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-30-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Based on a review of the facility California Environmental Reporting System (CERS) submittal dated 11/29/18, the previous violations cited I#161 & 673, have been corrected. The site is in compliance
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-12-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 105686
Facility Name: Circle K Stores Inc. Site #2709461
Env Int Type Code: HWG
Program ID: 10166791
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.682550
Longitude: -117.815140

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Yolanda Jones
Entity Title: Not reported
Affiliation Address: P.O. Box 52085, Attn: Environmental
Affiliation City: Phoenix
Affiliation State: AZ
Affiliation Country: Not reported
Affiliation Zip: 85072
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Affiliation Address:	P.O. Box 52085, Attn: Environmental
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	Not reported
Affiliation Zip:	85072
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Robert Velasco
Entity Title:	Agent For Circle K
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Circle K Stores Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 52085, Attn: Environmental
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	United States
Affiliation Zip:	85072
Affiliation Phone:	(980) 875-1745
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	The Irvine Company/TIC Retail Properties
Entity Title:	Not reported
Affiliation Address:	550 Newport Center Dr.
Affiliation City:	Newport Beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92660
Affiliation Phone:	(949) 261-6121
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Circle K Stores Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 52085, Attn: Environmental
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	United States
Affiliation Zip:	85072
Affiliation Phone:	(980) 875-1745
Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Velasco
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Affiliation Type Desc:	Property Owner
Entity Name:	The Irvine Company/TIC Retail Properties
Entity Title:	Not reported
Affiliation Address:	550 Newport Center Dr.
Affiliation City:	Newport Beach
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92660
Affiliation Phone:	(949) 261-6121

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Robert Velasco
Entity Title:	Agent For Circle K
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(661) 250-9300

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Circle K Stores Inc.
Entity Title:	Not reported
Affiliation Address:	P.O. Box 52085, Attn: Environmental
Affiliation City:	Phoenix
Affiliation State:	AZ
Affiliation Country:	United States
Affiliation Zip:	85072
Affiliation Phone:	(980) 875-1745

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Operator
Entity Name:	Circle K Stores Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(980) 875-1745

Affiliation Type Desc:	Parent Corporation
Entity Name:	Circle K Stores Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

CIRCLE K STORES INC. SITE #2709461 (Continued) **S103978019**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

B21 **CIRCLE K STORES INC #2709461** **UST** **U003433218**
WNW **3765 ALTON PKWY** **N/A**
< 1/8 **IRVINE, CA 92606**
0.038 mi.
199 ft. **Site 12 of 13 in cluster B**

Relative: ORANGE CO. UST:
Lower
Name: CIRCLE K STORES INC #2709461
Actual: Address: 3765 ALTON PKWY
62 ft. City,State,Zip: IRVINE, CA 92606
Facility ID: FA0058482

UST:
Name: CIRCLE K STORES INC. SITE #2709461
Address: 3765 ALTON PKWY
City,State,Zip: IRVINE, CA 92606
Facility ID: FA0058482
Permitting Agency: Orange County Environmental Health
Latitude: 33.68255
Longitude: -117.81514

Name: MOBIL 18-VBK
Address: 3765 ALTON PKWY
City,State,Zip: IRVINE, CA 92606
Facility ID: 17141
Permitting Agency: ORANGE COUNTY
Latitude: 33.6852883
Longitude: -117.8149037

B22 **CIRCLE K STORES INC. SITE #2709461** **RCRA-SQG** **1008194563**
WNW **3765 ALTON PKWY** **CHMIRS** **CAL000160681**
< 1/8 **IRVINE, CA 92606** **FINDS**
0.038 mi. **ECHO**
199 ft. **Site 13 of 13 in cluster B**

Relative: RCRA-SQG:
Lower
Date form received by agency: 2004-03-07 00:00:00.0
Actual: Facility name: EXXONMOBIL OIL CORP NO 12417
62 ft. Facility address: 3765 ALTON PKY
IRVINE, CA 92714-8293
EPA ID: CAL000160681
Mailing address: 12265 WEST BAYAUD AVE
LAKEWOOD, CO 80228
Contact: JOHN HOOVER
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 800-253-8054
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous

CIRCLE K STORES INC. SITE #2709461 (Continued) **1008194563**

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	EXXONMOBIL OIL CORP
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	1997-10-01 00:00:00.0
Owner/Op end date:	Not reported

Owner/operator name:	EXXONMOBIL OIL CORP
Owner/operator address:	3225 GALLOWS RD
	FAIRFAX, VA 22937
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	1997-10-01 00:00:00.0
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	2004-03-07 00:00:00.0
Site name:	EXXONMOBIL OIL CORP NO 12417
Classification:	Large Quantity Generator

Hazardous Waste Summary:

CIRCLE K STORES INC. SITE #2709461 (Continued) **1008194563**

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

CHMIRS:

Name:	Not reported
Address:	3765 ALTON PKWY
City,State,Zip:	IRVINE, CA 92606
OES Incident Number:	1-2361
OES notification:	04/13/2011
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Service Station
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1830
Year:	2011
Agency:	Veeder Root
Incident Date:	4/13/2011
Admin Agency:	Orange County Emergency Management Division
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	0.25

CIRCLE K STORES INC. SITE #2709461 (Continued) **1008194563**

Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller states that a leaking nozzle at a gas station caused the release.

FINDS:

Registry ID: 110059739528

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1008194563
Registry ID:	110059739528
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110059739528

23
South
< 1/8
0.092 mi.
485 ft.

EL TORO TEXACO **EDR Hist Auto** **1020191241**
27 GREENFIELD **N/A**
IRVINE, CA 92614

Relative:
Higher

Actual:
74 ft.

EDR Hist Auto

Year:	Name:	Type:
2001	EL TORO TEXACO	Gasoline Service Stations
2002	EL TORO TEXACO	Gasoline Service Stations

24
ENE
1/8-1/4
0.136 mi.
719 ft.

ST JOSEPH IRVINE HEALTH CENTER
4050 BARRANCA PKWY
IRVINE, CA 92614

RCRA-SQG
FINDS
ECHO
HAZNET

1000820253
CAD983662875

Relative:
Higher

Actual:
74 ft.

RCRA-SQG:

Date form received by agency:	1993-03-23 00:00:00.0
Facility name:	ST JOSEPH IRVINE HEALTH CENTER
Facility address:	4050 BARRANCA PKWY IRVINE, CA 92614
EPA ID:	CAD983662875
Contact:	NEIL GAGNON
Contact address:	1100 W STEWART DR ORANGE, CA 92668
Contact country:	US
Contact telephone:	714-771-8035
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	SAINT JOSEPH HEALTH SYSTEM
Owner/operator address:	440 S BATAVIA ORANGE, CA 92668
Owner/operator country:	Not reported
Owner/operator telephone:	714-997-7690
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

ST JOSEPH IRVINE HEALTH CENTER (Continued) **1000820253**

FINDS:

Registry ID: 110008284819

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000820253
Registry ID:	110008284819
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008284819

HAZNET:

Name:	ST JOSEPH IRVINE HEALTH CENTER
Address:	4050 BARRANCA PKWY
City,State,Zip:	IRVINE, CA 927140000
Year:	1997
GEPAID:	CAD983662875
Contact:	INACTIVE PER LTR 3/15/94
Telephone:	7142623013
Mailing Name:	Not reported
Mailing Address:	4050 BARRANCA PKWY
Mailing City,St,Zip:	IRVINE, CA 927140000
Gen County:	Orange
TSD EPA ID:	CAD981402522
TSD County:	Kern
Tons:	0.0208
CA Waste Code:	541-Photochemicals/photoprocessing waste
Method:	R01-Recycler
Facility County:	Orange

Name:	ST JOSEPH IRVINE HEALTH CENTER
Address:	4050 BARRANCA PKWY
City,State,Zip:	IRVINE, CA 927140000
Year:	1996
GEPAID:	CAD983662875
Contact:	INACTIVE PER LTR 3/15/94
Telephone:	7142623013
Mailing Name:	Not reported
Mailing Address:	4050 BARRANCA PKWY
Mailing City,St,Zip:	IRVINE, CA 927140000
Gen County:	Orange
TSD EPA ID:	CAD981402522
TSD County:	Kern
Tons:	0
CA Waste Code:	-
Method:	R01-Recycler

ST JOSEPH IRVINE HEALTH CENTER (Continued) **1000820253**

Facility County: Orange

Name: ST JOSEPH IRVINE HEALTH CENTER
Address: 4050 BARRANCA PKWY
City,State,Zip: IRVINE, CA 927140000
Year: 1996
GEPAID: CAD983662875
Contact: INACTIVE PER LTR 3/15/94
Telephone: 7142623013
Mailing Name: Not reported
Mailing Address: 4050 BARRANCA PKWY
Mailing City,St,Zip: IRVINE, CA 927140000
Gen County: Orange
TSD EPA ID: CAD981402522
TSD County: Kern
Tons: 0.0624
CA Waste Code: 541-Photochemicals/photoprocessing waste
Method: R01-Recycler
Facility County: Orange

Name: ST JOSEPH IRVINE HEALTH CENTER
Address: 4050 BARRANCA PKWY
City,State,Zip: IRVINE, CA 927140000
Year: 1995
GEPAID: CAD983662875
Contact: INACTIVE PER LTR 3/15/94
Telephone: 7142623013
Mailing Name: Not reported
Mailing Address: 4050 BARRANCA PKWY
Mailing City,St,Zip: IRVINE, CA 927140000
Gen County: Orange
TSD EPA ID: CAD981402522
TSD County: Kern
Tons: 0.0416
CA Waste Code: 541-Photochemicals/photoprocessing waste
Method: R01-Recycler
Facility County: Orange

Name: ST JOSEPH IRVINE HEALTH CENTER
Address: 4050 BARRANCA PKWY
City,State,Zip: IRVINE, CA 927140000
Year: 1994
GEPAID: CAD983662875
Contact: INACTIVE PER LTR 3/15/94
Telephone: 7142623013
Mailing Name: Not reported
Mailing Address: 4050 BARRANCA PKWY
Mailing City,St,Zip: IRVINE, CA 927140000
Gen County: Orange
TSD EPA ID: CAD981402522
TSD County: Kern
Tons: 0.0624
CA Waste Code: 541-Photochemicals/photoprocessing waste
Method: R01-Recycler
Facility County: Orange

ST JOSEPH IRVINE HEALTH CENTER (Continued) **1000820253**

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

25
SW
1/8-1/4
0.185 mi.
978 ft.

PACIFIC BELL
16972 CULVER DR
TUSTIN, CA 92780

RCRA-SQG **1000250422**
FINDS **CAT080025638**
ECHO

Relative:
Lower

Actual:
68 ft.

RCRA-SQG:

Date form received by agency:	1996-09-01 00:00:00.0
Facility name:	PACIFIC BELL
Facility address:	16972 CULVER DR TUSTIN, CA 92780
EPA ID:	CAT080025638
Mailing address:	500 S.MAIN S TOWER BOCC RM 260 ORANGE, CA 92668
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

PACIFIC BELL (Continued) **1000250422**

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Historical Generators:
- Date form received by agency: 1981-01-20 00:00:00.0
- Site name: PACIFIC BELL
- Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110006487514

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
- Envid: 1000250422
- Registry ID: 110006487514
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110006487514

C26 **GOOD HANDS CLEANERS** **DRYCLEANERS** **S121696139**
North **3972 BARRANCA PKY # F-1** **N/A**
1/8-1/4 **IRVINE, CA 92606**
0.190 mi.
1002 ft. **Site 1 of 5 in cluster C**

Relative: **Lower**

Actual: **69 ft.**

DRYCLEAN SOUTH COAST:
- Name: GOOD HANDS CLEANERS
- Address: 3972 BARRANCA PKY # F-1
- City,State,Zip: IRVINE, CA 92606
- Facility ID: 152011
- Application Number: 469197

GOOD HANDS CLEANERS (Continued) **S121696139**

Permit Number:	Not reported
Status:	O
Representative Name:	STEVE LEE
Representative Telephone:	949 3222494
Permit Status:	Not reported
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	424.92999268
UTM North:	3727.3400879

C27 **PHOTO BEAR** **RCRA-SQG** **1000415220**
North **3972 BARRANCA UNIT B** **FINDS** **CAD982406035**
1/8-1/4 **IRVINE, CA 92614** **ECHO**
0.190 mi. **HAZNET**
1002 ft. **Site 2 of 5 in cluster C**

Relative: **Lower**

Actual: **69 ft.**

RCRA-SQG:

Date form received by agency:	1988-04-04 00:00:00.0
Facility name:	PHOTO BEAR
Facility address:	3972 BARRANCA UNIT B IRVINE, CA 92614
EPA ID:	CAD982406035
Contact:	ENVIRONMENTAL MANAGER
Contact address:	3972 BARRANCA UNIT B IRVINE, CA 92714
Contact country:	US
Contact telephone:	714-496-0922
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ROBERT TUCKER
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212

PHOTO BEAR (Continued) **1000415220**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008277266

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000415220
Registry ID: 110008277266
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110008277266

HAZNET:
Name: PHOTO BEAR
Address: 3972 BARRANCA UNIT B
City,State,Zip: IRVINE, CA 927140000
Year: 1996
GEPAID: CAD982406035
Contact: --
Telephone: --

PHOTO BEAR (Continued) **1000415220**

Mailing Name: Not reported
Mailing Address: 3972 BARRANCA PKWY STE B
Mailing City,St,Zip: IRVINE, CA 926068292
Gen County: Orange
TSD EPA ID: CAD981402522
TSD County: Kern
Tons: 0.0416
CA Waste Code: 541-Photochemicals/photoprocessing waste
Method: R01-Recycler
Facility County: Orange

Name: PHOTO BEAR
Address: 3972 BARRANCA UNIT B
City,State,Zip: IRVINE, CA 927140000
Year: 1996
GEPAID: CAD982406035
Contact: --
Telephone: --
Mailing Name: Not reported
Mailing Address: 3972 BARRANCA PKWY STE B
Mailing City,St,Zip: IRVINE, CA 926068292
Gen County: Orange
TSD EPA ID: CAD108040858
TSD County: Los Angeles
Tons: 0.0017
CA Waste Code: 171-Metal sludge (Alkaline solution (pH >= 12.5) with metals)
Method: R01-Recycler
Facility County: Orange

Name: PHOTO BEAR
Address: 3972 BARRANCA UNIT B
City,State,Zip: IRVINE, CA 927140000
Year: 1995
GEPAID: CAD982406035
Contact: --
Telephone: --
Mailing Name: Not reported
Mailing Address: 3972 BARRANCA PKWY STE B
Mailing City,St,Zip: IRVINE, CA 926068292
Gen County: Orange
TSD EPA ID: CAD981402522
TSD County: Kern
Tons: 0.0208
CA Waste Code: 541-Photochemicals/photoprocessing waste
Method: R01-Recycler
Facility County: Orange

Name: PHOTO BEAR
Address: 3972 BARRANCA UNIT B
City,State,Zip: IRVINE, CA 927140000
Year: 1994
GEPAID: CAD982406035
Contact: --
Telephone: --
Mailing Name: Not reported
Mailing Address: 3972 BARRANCA PKWY STE B
Mailing City,St,Zip: IRVINE, CA 926068292

PHOTO BEAR (Continued) **1000415220**

Gen County:	Orange
TSD EPA ID:	CAD981402522
TSD County:	Kern
Tons:	0.0416
CA Waste Code:	541-Photochemicals/photoprocessing waste
Method:	R01-Recycler
Facility County:	Orange

Name:	PHOTO BEAR
Address:	3972 BARRANCA UNIT B
City,State,Zip:	IRVINE, CA 927140000
Year:	1993
GEPAID:	CAD982406035
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	3972 BARRANCA PKWY STE B
Mailing City,St,Zip:	IRVINE, CA 926068292
Gen County:	Orange
TSD EPA ID:	CAD981402522
TSD County:	Kern
Tons:	0.0208
CA Waste Code:	541-Photochemicals/photoprocessing waste
Method:	R01-Recycler
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
6 additional CA_HAZNET: record(s) in the EDR Site Report.

C28 **GOOD HANDS CLEANERS** **DRYCLEANERS** **S105807931**
North **3972 BARRANCA PKWY STE F1** **HAZNET** **N/A**
1/8-1/4 **IRVINE, CA 92606** **CERS**
0.190 mi.
1002 ft. **Site 3 of 5 in cluster C**

Relative: **Lower**
Actual: **69 ft.**

DRYCLEANERS:

Name:	THE CROSSROADS CLEANERS
Address:	3972 BARRANCA PKWY
City,State,Zip:	IRVINE, CA 92604
EPA Id:	CAL000256478
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	07/25/2002
Facility Active:	No
Inactive Date:	06/30/2003
Facility Addr2:	Not reported
Owner Name:	DONGHYUN JUEN
Owner Address:	3972 BARRANCA PKWY
Owner Address 2:	Not reported
Owner Telephone:	9498576666
Contact Name:	DONGHYUN JUEN
Contact Address:	3972 BARRANCA PKWY
Contact Address 2:	Not reported
Contact Telephone:	9498576666
Mailing Name:	Not reported
Mailing Address 1:	3972 BARRANCA PKWY

GOOD HANDS CLEANERS (Continued) **S105807931**

Mailing Address 2:	Not reported
Mailing City:	IRVINE
Mailing State:	CA
Mailing Zip:	92604
Owner Fax:	Not reported
Region Code:	4

Name:	GOOD HANDS CLEANERS
Address:	3972 BARRANCA PKWY STE F1
City,State,Zip:	IRVINE, CA 926068292
EPA Id:	CAL000320247
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	06/04/2007
Facility Active:	No
Inactive Date:	06/30/2009
Facility Addr2:	Not reported
Owner Name:	DONG YOU LEE
Owner Address:	1740 W KATELLA AVE STE L
Owner Address 2:	Not reported
Owner Telephone:	7146330122
Contact Name:	KEVIN HONG
Contact Address:	PO BOX 5479
Contact Address 2:	Not reported
Contact Telephone:	2135030418
Mailing Name:	Not reported
Mailing Address 1:	PO BOX 5479
Mailing Address 2:	Not reported
Mailing City:	IRVINE
Mailing State:	CA
Mailing Zip:	926160000
Owner Fax:	Not reported
Region Code:	4

HAZNET:

Name:	GOOD HANDS CLEANERS
Address:	3972 BARRANCA PKWY STE F1
City,State,Zip:	IRVINE, CA 926068292
Year:	2007
GEPAID:	CAL000320247
Contact:	KEVIN HONG
Telephone:	2135030418
Mailing Name:	Not reported
Mailing Address:	PO BOX 5479
Mailing City,St,Zip:	IRVINE, CA 926160000
Gen County:	Orange
TSD EPA ID:	CAT000613893
TSD County:	Los Angeles
Tons:	0.225
CA Waste Code:	741-Liquids with halogenated organic compounds >= 1,000 Mg./L
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

GOOD HANDS CLEANERS (Continued) **S105807931**

CERS:
Name: URBAN PLATES
Address: 3972 BARRANCA PKWY STE N
City,State,Zip: IRVINE, CA 92606
Site ID: 434856
CERS ID: 10726882
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 434856
Site Name: Urban Plates
Violation Date: 06-11-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 06/12/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 434856
Site Name: Urban Plates
Violation Date: 06-11-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 06/12/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 434856
Site Name: Urban Plates
Violation Date: 06-11-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 06/14/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 434856
Site Name: Urban Plates
Violation Date: 06-11-2018
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 06/12/2018.
Violation Division: Orange County Environmental Health

GOOD HANDS CLEANERS (Continued) **S105807931**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 434856
Site Name: Urban Plates
Violation Date: 03-03-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/30/2018. Inspection observed hazardous material on site above reporting threshold. Electronically submit facility's hazardous material inventory information on to the CERS (california environmental reporting system) website within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 434856
Site Name: Urban Plates
Violation Date: 06-11-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 06/12/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 434856
Site Name: Urban Plates
Violation Date: 03-03-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 05/30/2018. Inspection observed hazardous material on site above reporting threshold. Electronically submit facility's hazardous material business plan on to the CERS (california environmental reporting system) website within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-03-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous materials chemical inventory and business emergency plan (HMBEP) inspection. Alex Pearlman, manager, was present for the inspection and provided consent to inspect. We reviewed the facility?s Hazardous material inventory on

GOOD HANDS CLEANERS (Continued) **S105807931**

site. The facility had hazardous materials on site above reporting threshold. Carbon dioxide compressed gas was observed on site at 2,187 cubic feet (five 50 pound and one 20 pound cylinders). Also, Nitrogen 75% carbon dioxide 25% compressed gas was present at an estimated 692 cubic feet (three 20 pound cylinders). We briefly discussed the facility?s electronic reporting using CERS (California Environmental Reporting System) for their electronic HMBEP submissions. We discussed employee training. The Facility must conduct annual employee safety procedure training in the event of a release or a threatened release of hazardous material. The facility must maintain records of topics covered and employees [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-08-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Follow up on violations cited for not submitting an HMBP in CERS and having a complete inventory. Still out of compliance - need to inspect.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-11-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the California Environmental Reporting System (CERS) on April 20, 2018, following the submittal by your facility on February 28, 2018. The submittal was not accepted, see the comments in CERS. Pursuant to the California Health & Safety Code (H&SC) Chapter 6.95, Section 25508 and the California Code of Regulations (CCR) Title 19, Sections 2654 and 2655, businesses are required to electronically submit, review and update, or certify their hazardous materials inventory annually by March 1st. To date, this facility has failed to complete the electronic CERS submittal and address the review comments. As a result, this facility is not in compliance and has been issued violations listed in this report. You have 30 days to comply and complete the CERS submittal.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-14-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Based on the submittal in the California Environmental Reporting System (CERS) dated 6/12/18, the following violations have been corrected: #I169 #i292 #I463 #I632 One violation for the annotated Site Map remains uncorrected - see comments in CERS.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

GOOD HANDS CLEANERS (Continued) **S105807931**

Eval General Type:	Other/Unknown
Eval Date:	06-15-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Based on a review of the California Environmental Reporting System (CERS), the following violation has been corrected: #I632 - Failure to submit a complete annotated site plan electronically to CERS. The site is in compliance.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Peter Mehrberg
Entity Title:	Not reported
Affiliation Address:	2053 San Elijo Avenue
Affiliation City:	Cardiff
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92007
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2053 San Elijo Avenue
Affiliation City:	Cardiff
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92007
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Urban Plates LLC
Entity Title:	Not reported
Affiliation Address:	csmith@urbanplates.com
Affiliation City:	Cardiff
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92007
Affiliation Phone:	(760) 230-1700

Affiliation Type Desc:	Operator
Entity Name:	Urban Plates LLC
Entity Title:	Not reported
Affiliation Address:	Not reported

GOOD HANDS CLEANERS (Continued) **S105807931**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(760) 230-1700
Affiliation Type Desc:	Parent Corporation
Entity Name:	Urban Plates LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Stefanie Franovic
Entity Title:	Development Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Stefanie Franovic
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

C29 **CELEBRITY CLEANERS** **DRYCLEANERS** **S121694628**
North **3972 BARRANCA F** **N/A**
1/8-1/4 **IRVINE, CA 92660**
0.190 mi.
1002 ft. **Site 4 of 5 in cluster C**

Relative: DRYCLEAN SOUTH COAST:
Lower

Actual: Name:	CELEBRITY CLEANERS
69 ft. Address:	3972 BARRANCA F
City,State,Zip:	IRVINE, CA 92660
Facility ID:	124296
Application Number:	372600
Permit Number:	F33198
Status:	S
Representative Name:	MIJANOU PHAN
Representative Telephone:	949 8512032
Permit Status:	INACTIVE
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported

CELEBRITY CLEANERS (Continued) **S121694628**

UTM East: 424.96899414
UTM North: 3727.2958984

30
SSW
1/8-1/4
0.202 mi.
1068 ft.

MOSS, ROYCE & CONALLEE
42 EAGLE RUN
IRVINE, CA 92614

RCRA NonGen / NLR **1024755716**
CAC002975541

Relative:
Lower

Actual:
71 ft.

RCRA NonGen / NLR:

Date form received by agency:	2018-08-13 00:00:00.0
Facility name:	MOSS, ROYCE & CONALLEE
Facility address:	42 EAGLE RUN IRVINE, CA 92614
EPA ID:	CAC002975541
Contact:	MOSS, ROYCE & CONALLEE
Contact address:	42 EAGLE RUN IRVINE, CA 92614
Contact country:	Not reported
Contact telephone:	949-929-8106
Contact email:	ANDREWC@PWSEI.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MOSS, ROYCE & CONALLEE
Owner/operator address:	42 EAGLE RUN IRVINE, CA 92614
Owner/operator country:	Not reported
Owner/operator telephone:	949-929-8106
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MOSS, ROYCE & CONALLEE
Owner/operator address:	42 EAGLE RUN IRVINE, CA 92614
Owner/operator country:	Not reported
Owner/operator telephone:	949-929-8106
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes

MOSS, ROYCE & CONALLEE (Continued) **1024755716**

Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

D31 **ORANGE COUNTY FIRE STATION #36** **LUST** **S105696122**
ENE **301 YALE LOOP** **N/A**
1/8-1/4 **IRVINE, CA 92714**
0.207 mi.
1092 ft. **Site 1 of 2 in cluster D**

Relative: **Higher**

Actual: **78 ft.**

LUST REG 8:

Name:	ORANGE COUNTY FIRE STATION #36
Address:	301 YALE LOOP
City:	IRVINE
Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083000155T
Local Case Num:	87UT076
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900117
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/7/1987
Enforcement Date:	Not reported
Close Date:	9/21/1994
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported

ORANGE COUNTY FIRE STATION #36 (Continued) **S105696122**

Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6710387
Longitude:	-117.7913176
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

Name:	ORANGE COUNTY FIRE STATION #36
Address:	301 YALE LOOP
City:	IRVINE
Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	Not reported
Local Case Num:	02UT001
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605906369
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	1/1/1965
Enforcement Date:	Not reported
Close Date:	9/13/2002
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported

ORANGE COUNTY FIRE STATION #36 (Continued) **S105696122**

Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	Not reported
Longitude:	Not reported
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	Not reported
Staff Initials:	JK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

C32 **CROSSROAD CLEANERS** **DRYCLEANERS** **S121695347**
NNE **3972 BARRANCA F #F1** **N/A**
1/8-1/4 **IRVINE, CA 92604**
0.221 mi.
1165 ft. **Site 5 of 5 in cluster C**

Relative: **Lower**

Actual: **69 ft.**

DRYCLEAN SOUTH COAST:

Name:	CROSSROAD CLEANERS
Address:	3972 BARRANCA F #F1
City,State,Zip:	IRVINE, CA 92604
Facility ID:	138677
Application Number:	422407
Permit Number:	F69522
Status:	A
Representative Name:	PAUL PARK
Representative Telephone:	949 8576666
Permit Status:	INACT_NR
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	424.96899414
UTM North:	3727.2958984

E33 **TARGET T0336** **CERS HAZ WASTE** **S113803745**
North **3750 BARRANCA PKWY** **CERS** **N/A**
1/8-1/4 **IRVINE, CA 92606**
0.221 mi.
1167 ft. **Site 1 of 3 in cluster E**

Relative: **Lower**

Actual: **66 ft.**

CERS HAZ WASTE:

Name:	TARGET T0336
Address:	3750 BARRANCA PKWY
City,State,Zip:	IRVINE, CA 92606
Site ID:	159715
CERS ID:	10401271
CERS Description:	Hazardous Waste Generator

Name:	CVS PHARMACY #16120
Address:	3750 BARRANCA PKWY STE B
City,State,Zip:	IRVINE, CA 92606
Site ID:	368313
CERS ID:	10668487
CERS Description:	Hazardous Waste Generator

CERS:

Name:	TARGET T0336
Address:	3750 BARRANCA PKWY
City,State,Zip:	IRVINE, CA 92606
Site ID:	159715
CERS ID:	10401271
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-13-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to conduct a routine hazardous waste inspection. Consent to inspect and take photos if necessary was granted by the Sr. Team Lead, Gretchen Alvarez. No hazardous waste was observed in the trash compactor on this date, and no photos were taken. The following storage containers were observed: Universal waste/batteries Corrosive base Corrosive acid Oxidizer Flammable/aerosol/ toxic 3 x California waste 22 x Pending sorting The containers were observed labeled and stored properly. Hazardous waste disposal documents for 2013-15 were reviewed. No hazardous waste violations were observed on this date. A copy of this report will be sent to gretchen.alvarez@target.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	01-30-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	accepted facility info 2016
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-19-2014

TARGET T0336 (Continued) **S113803745**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received a "Hazardous Waste Contingency Plan and Arrangements" document dated 4/24/14 via Certified Mail. A copy of this report will be sent via email to Corporate.Compliance@Target.com
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP Submittal Reviewed and Accepted RUR Submitted
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-23-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Accepted pending review of more recent submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-11-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to perform the routine inspection and met with Mr. Damien Lennon, Store Team Lead, and Mr. Rolando Guzman, Executive Team Lead. Walked through the facility and around the perimeter. Checked trash receptacles and dumpsters. Observed the following hazardous wastes separated into small totes: - Toxics - Corrosive - Oxidizers - Flammables - Universal Wastes Reviewed the hazardous waste manifests. Confirmed employee’s receive annual training.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-11-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Onsite to perform the routine inspection and met with Mr. Damien Lennon, Store Team Lead, and Mr. Rolando Guzman, Executive Team Lead. Walked through the facility and around the perimeter. Observed the following hazardous materials which are consistent with what was disclosed in the California Environmental Reporting System (CERS) dated 1/22/18: - Refrigerant - Propane - Retail Hazardous Wastes The following are no longer stored at the site and should be removed from the CERS hazardous materials inventory and site map: - Lead Acid Batteries - Floor Finish - CO2 The business no longer maintains battery operated floor cleaners/waxing machines. The machines are now electric and require less chemicals. Additionally, the business no

TARGET T0336 (Continued) **S113803745**

longer has a restaurant operating inside with a soda machine. Within 30 days please update the 2018 annual certification and complete the 2019 certification in CERS. Pursuant to the California Health & Safety Code (H&SC) [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-08-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received and ACCEPTED on the Esubmit Portal/CERS: Chemical Inventory for 6 chemicals Facility Site Map Emergency Response & Training Plans
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Onsite to conduct a routine Hazardous Material Business Emergency Plan HMBEP inspection. Consent to inspect and take photos if necessary was granted by the Sr. Team Lead, Gretchen Alvarez. No photos were taken on this date. The following disclosable materials were observed: 3686 cu. ft. Refrigerant R404a (not directly observed, stored on the roof) 9 x 5 gallon Signature UHS Floor Finish 58 gallons Carbon Dioxide 50-gallon propane tank + 4 x 5-gallon tanks + 7-gallon tank 2960 cu. ft. Refrigerant R-22 (not directly observed, stored on the roof) Employee training records were reviewed. No HMBEP violations were observed on this date. A copy of this report will be sent to gretchen.alvarez@target.com
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Environmental Contact
Entity Name: Permits, Operations & Compliance
Entity Title: Not reported
Affiliation Address: PO Box 111
Affiliation City: Minneapolis
Affiliation State: MN
Affiliation Country: Not reported
Affiliation Zip: 55440

TARGET T0336 (Continued) **S113803745**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Target Corporation
Entity Title:	Not reported
Affiliation Address:	PO Box 111
Affiliation City:	Minneapolis
Affiliation State:	MN
Affiliation Country:	United States
Affiliation Zip:	55440
Affiliation Phone:	(800) 587-2228
Affiliation Type Desc:	Parent Corporation
Entity Name:	Target Corporate Office Headquarters
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 111
Affiliation City:	Minneapolis
Affiliation State:	MN
Affiliation Country:	Not reported
Affiliation Zip:	55440
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Mitchel Rasmussen
Entity Title:	Director of Compliance
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Target Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(800) 587-2228
Affiliation Type Desc:	Document Preparer
Entity Name:	Nathan White
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

TARGET T0336 (Continued) **S113803745**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

E34 **CVS PHARMACY #16120** **RCRA-VSQG** **1018274026**
North **3750 BARRANCA PKWY STE B** **FINDS** **CAR000262444**
1/8-1/4 **IRVINE, CA 92606** **ECHO**
0.221 mi.
1167 ft. **Site 2 of 3 in cluster E**

Relative:
Lower

Actual:
66 ft.

RCRA-VSQG:
Date form received by agency: 2016-03-29 00:00:00.0
Facility name: CVS PHARMACY #16120
Facility address: 3750 BARRANCA PKWY STE B
IRVINE, CA 92606
EPA ID: CAR000262444
Mailing address: ONE CVS DR
WOONSOCKET, RI 02895
Contact: NICOLE WILKINSON
Contact address: ONE CVS DR MAIL CODE 2340
WOONSOCKET, RI 02895
Contact country: US
Contact telephone: 401-770-7132
Contact email: NICOLE.WILKINSON@CVS HEALTH.COM
EPA Region: 09
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: GARFIELD BEACH CVS LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2015-12-16 00:00:00.0
Owner/Op end date: Not reported

CVS PHARMACY #16120 (Continued) **1018274026**

Owner/operator name: THE IRVINE COMPANY LLC
Owner/operator address: INNOVATION
IRVINE, CA 92617
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 1987-12-23 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

CVS PHARMACY #16120 (Continued) **1018274026**

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 561
. Waste name: Detergent and soap

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

CVS PHARMACY #16120 (Continued) **1018274026**

. Waste code: U205
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Violation Status: No violations found

FINDS:

Registry ID: 110067713521

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1018274026
Registry ID: 110067713521
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110067713521

E35 **TARGET STORE T0336** **RCRA-LQG** **1014465438**
North **3750 BARRANCA PKWY** **CAR000219113**
1/8-1/4 **IRVINE, CA 92606**
0.221 mi.
1167 ft. **Site 3 of 3 in cluster E**

Relative: **Lower**

Actual: **66 ft.**

RCRA-LQG:
Date form received by agency: 2018-02-01 00:00:00.0
Facility name: TARGET STORE T0336
Facility address: 3750 BARRANCA PKWY
IRVINE, CA 92606-0000
EPA ID: CAR000219113
Mailing address: PO BOX 111
MINNEAPOLIS, MN 55440
Contact: STEVE MUSSER
Contact address: PO BOX 111
MINNEAPOLIS, MN 55440
Contact country: US
Contact telephone: 800-587-2228
Contact email: POC@TARGET.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

TARGET STORE T0336 (Continued) **1014465438**

hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	PO BOX 111 MINNEAPOLIS, MN 55440
Owner/operator country:	US
Owner/operator telephone:	800-587-2228
Owner/operator email:	POC@TARGET.COM
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	1988-07-20 00:00:00.0
Owner/Op end date:	Not reported

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	PO BOX 111 MINNEAPOLIS, MN 55440
Owner/operator country:	US
Owner/operator telephone:	800-587-2228
Owner/operator email:	POC@TARGET.COM
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	1988-07-20 00:00:00.0
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	2016-02-11 00:00:00.0
Site name:	TARGET STORE T0336
Classification:	Large Quantity Generator

Date form received by agency:	2014-03-01 00:00:00.0
Site name:	TARGET STORE T0336
Classification:	Small Quantity Generator

TARGET STORE T0336 (Continued) **1014465438**

Date form received by agency: 2011-04-11 00:00:00.0
Site name: TARGET STORE NO 0336
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010

TARGET STORE T0336 (Continued) **1014465438**

. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P046
. Waste name: ALPHA,ALPHA-DIMETHYLPHENETHYLAMINE (OR) BENZENEETHANAMINE, ALPHA, ALPHA-DIMETHYL-

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

TARGET STORE T0336 (Continued) **1014465438**

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 6643

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

TARGET STORE T0336 (Continued) **1014465438**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 2493

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 2518

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 4442

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 14

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 4447

Waste code: D008
Waste name: LEAD
Amount (Lbs): 634

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 2518

Waste code: D011
Waste name: SILVER
Amount (Lbs): 4447

Waste code: D016
Waste name: 2,4-D
Amount (Lbs): 2518

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 1924

Waste code: D024
Waste name: M-CRESOL
Amount (Lbs): 2518

Waste code: D026
Waste name: CRESOL
Amount (Lbs): 2518

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 3787

Waste code: P001
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs): 51

TARGET STORE T0336 (Continued) **1014465438**

Waste code: P075
Waste name: NICOTINE, & SALTS
Amount (Lbs): 51

Waste code: U002
Waste name: ACETONE (I)
Amount (Lbs): 1924

Waste code: U035
Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-
Amount (Lbs): 2518

Waste code: U044
Waste name: CHLOROFORM
Amount (Lbs): 2518

Waste code: U058
Waste name: CYCLOPHOSPHAMIDE
Amount (Lbs): 2518

Waste code: U072
Waste name: BENZENE, 1,4-DICHLORO-
Amount (Lbs): 2518

Waste code: U129
Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-
Amount (Lbs): 2518

Waste code: U154
Waste name: METHANOL (I)
Amount (Lbs): 1924

Violation Status: No violations found

F36 **WOODBRIDGE HIGH SCHOOL** **ENVIROSTOR** **S109548305**
ESE **2 MEADOWBROOK** **SCH** **N/A**
1/8-1/4 **IRVINE, CA 92604** **CERS HAZ WASTE**
0.232 mi. **CERS**
1227 ft. **Site 1 of 2 in cluster F**

Relative: **Higher**

Actual: **85 ft.**

ENVIROSTOR:
Name: WOODBRIDGE HIGH SCHOOL
Address: 2 MEADOWBROOK
City,State,Zip: IRVINE, CA 92604
Facility ID: 60001104
Status: No Further Action
Status Date: 07/27/2009
Site Code: 404829
Site Type: School Investigation
Site Type Detailed: School
Acres: 1.09
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Johnson Abraham
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

Assembly: 74
Senate: 37
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.6781
Longitude: -117.8053
APN: 452-011-09
Past Use: AGRICULTURAL - LIVESTOCK, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, SCHOOL - HIGH SCHOOL
Potential COC: Arsenic Chlordane DDD DDE DDT Lead
Confirmed COC: 30001-NO Chlordane Lead 30006-NO 30007-NO 30008-NO
Potential Description: SOIL
Alias Name: 452-011-09
Alias Type: APN
Alias Name: 404829
Alias Type: Project Code (Site Code)
Alias Name: 60001104
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 06/18/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/27/2009
Comments: DTSC concurred with the PEA recommendation that no further action was needed at this site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/03/2009
Comments: CRU Memo completed and emailed/mailed to CRU on 8/3/09.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/18/2009
Comments: Signed Agreement sent (FedEx) to District.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

SCH:

Name:	WOODBRIDGE HIGH SCHOOL
Address:	2 MEADOWBROOK
City,State,Zip:	IRVINE, CA 92604
Facility ID:	60001104
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.09
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Johnson Abraham
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404829
Assembly:	74
Senate:	37
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	07/27/2009
Restricted Use:	NO
Funding:	School District
Latitude:	33.6781
Longitude:	-117.8053
APN:	452-011-09
Past Use:	AGRICULTURAL - LIVESTOCK, AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, SCHOOL - HIGH SCHOOL
Potential COC:	Arsenic, Chlordane, DDD, DDE, DDT, Lead
Confirmed COC:	30001-NO, Chlordane, Lead, 30006-NO, 30007-NO, 30008-NO
Potential Description:	SOIL
Alias Name:	452-011-09
Alias Type:	APN
Alias Name:	404829
Alias Type:	Project Code (Site Code)
Alias Name:	60001104
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	06/18/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/27/2009
Comments:	DTSC concurred with the PEA recommendation that no further action was needed at this site.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

Completed Date: 08/03/2009
Comments: CRU Memo completed and emailed/mailed to CRU on 8/3/09.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/18/2009
Comments: Signed Agreement sent (FedEx) to District.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Name: WOODBRIDGE HIGH SCHOOL
Address: 2 MEADOWBROOK
City,State,Zip: IRVINE, CA 92604
Site ID: 413874
CERS ID: 10540585
CERS Description: Hazardous Waste Generator

CERS:
Name: WOODBRIDGE HIGH SCHOOL
Address: 2 MEADOWBROOK
City,State,Zip: IRVINE, CA 92604
Site ID: 413874
CERS ID: 10540585
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 413874
Site Name: WOODBRIDGE HIGH SCHOOL
Violation Date: 09-22-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 06/08/2018. Minor Violation: Failure to complete and/or electronically submit a Hazardous Materials Business Plan (HMBP) when storing and/or handling hazardous materials at or above the reportable threshold quantity. Observation: Observed hazardous materials in reportable quantities during today?s inspection. ? Corrective Action: Immediately complete an HMBP and submit it electronically to the California Environmental Reporting System (CERS). The HMBP consists of the following: emergency response plans & procedures, a site map, and annual employee training related to hazardous materials handling. Maintain annual employee training records for 3 years (sign-in sheet documenting the names of employees trained, the date they were trained, and the subject matter that they were trained on).

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 413874
Site Name: WOODBRIDGE HIGH SCHOOL
Violation Date: 10-15-2014
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 12/14/2014.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 413874
Site Name: WOODBRIDGE HIGH SCHOOL
Violation Date: 10-15-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/14/2014.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 02-08-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed ESubmit. Facility is on NOV List. Emailed Don Grudmen who submitted disclosures for Irvine Unified School District. Woodbridge and University disclosures are still incomplete. Both are on NOV List. Asked if he was taking care of all submissions or if each school is responsible for its own submission. Facility is a multi-link in ESubmit.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-11-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2016
Violations Found: No

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	2/19: Esubmit review. SUBMITTED 2-19-16
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-03-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	assisted ron grudem with e submit. Facility has begun entering hazardous material data in eSubmit Portal but a glitch has occurred and is awaiting resolution from the Portal administrator.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-05-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reviewed HMBEP submittal on E-submit. Package was declined and an email sent to the facility contact. The following corrections are needed: EMERGENCY PLAN Section a (prevention) - please describe the hazards associated with the materials stored on site and how you store them to reduce the hazard Section b (mitigation) - please complete Section c (abatement) - please add how you would handle a small spill Section f (other records) - please complete Training - please indicate the topics covered in your training CHEMICAL INVENTORY Used Oil - Max Daily amount must be at least 120 gallons (same as largest container). The Max Daily amount would be greater than the largest container if you store more than one container. SITE MAP Please add the following to your map: north arrow, adjacent street names, storm and sewer drains, building entrances and exits, evacuation staging area, emergency shut-offs (gas, water and electrical), and emergency response equipment.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-06-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-06-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

Eval General Type:	Other/Unknown
Eval Date:	09-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HMBEP submittal is being conditionally approved in order to facilitate transfer of data to California Electronic Reporting System (CERS) database. The facility will need to make the following revisions in CERS following notification of data transfer: EMERGENCY PLAN Section a (prevention) - please describe the hazards associated with the materials stored on site and how you store them to reduce the hazard Section b (mitigation) - please complete Section c (abatement) - please add how you would handle a small spill Section f (other records) - please complete Training - please indicate the topics covered in your training CHEMICAL INVENTORY Used Oil - Max Daily amount must be at least 120 gallons (same as largest container). The Max Daily amount would be greater than the largest container if you store more than one container. SITE MAP Please add the following to your map: north arrow, adjacent street names, storm and sewer drains, building entrances and exits, [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-20-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Made appointment with Don Grudem to inspect Woodbridge High school and Irvine High school on Thurs. 9/22.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to enter and inspect the facility was granted by Alex Cuevas, Campus Safety & Security Foreman. This facility currently generates hazardous waste on an occasional basis from spent lab chemicals and auto repair activities. Per Alex Cuevas, the photo lab was removed approximately 7 years ago. Walked throughout the facility and observed the hazardous waste storage areas. Containers of hazardous waste were stored closed and properly labeled. Containers appeared to be in good condition. Three years of hazardous waste manifests were available for review at the Campus Safety office. EPA ID # CAD981688682 is assigned to this facility and is currently active. Emergency response contingency plan information is described in the Emergency Operations Center plan. No hazardous waste was observed in the dumpster at the time of inspection. .
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-22-2016

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for a routine hazardous materials and business emergency plan (BEP) inspection. Consent to enter and inspect the facility was granted by Alex Cuevas, Campus Safety & Security Foreman. Observed the facility?s hazardous materials storage areas. Hazardous materials must be reported if the business handles an amount equal to or greater than 55 gallons of liquid, 500 pounds of solid, or 200 cubic feet of compressed gas (1,000 cubic feet threshold for gases for which the only health/physical hazards are simple asphyxiation and the release of pressure). During today?s inspection, the following hazardous materials were observed at this facility: Auto Shop: ? 1 x 120-gallon aboveground storage tank of used oil ? 1 x 55-gallon drum of used antifreeze Cooling Towers (behind admin and behind science building): ? 2 x 55-gallon drums of CP 3030C scale/corrosion inhibitor Pool Chemical Storage: ? 1 x 500-gallon aboveground storage tank and 12 x 1-gallon jugs of [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-15-2014
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Orange County Environmental Health as the Certified Unified Program Agency (OC CUPA) is the administrating agency for the Hazardous Materials Disclosure and Business Emergency Plan programs (HMD/BEP) previously administered by the Orange County Fire Authority. During the months of August and December of 2013, the OC CUPA sent out letters to regulated businesses requesting them to electronically submit their HMD/BEP forms. Electronic submission of these forms is a legal requirement. Failure to submit HMD/BEP forms is in violation of the California Health & Safety Code Chapter 6.95. According to our records there is no electronic submission for this facility. Please go to www.esubmit.ocgov.com to request a username and password and submit your HMD/BEP forms within the next 30 days. Businesses may also submit forms via the California Environmental Reporting System. Please verify that all owner information that is prepopulated on the E-Submit Portal is still accurate. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-01-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reached out to remind Don Grudem and Alex Cuevas to work on submitting CERS by March 1, 2017.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-15-2016
Violations Found:	No

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

Eval Type: Other, not routine, done by local agency
Eval Notes: On-site CERS help for Alex Cuevas
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 413874
Site Name: WOODBRIDGE HIGH SCHOOL
Site Address: 2 MEADOWBROOK
Site City: IRVINE
Site Zip: 92604
Enf Action Date: 02-11-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Failure to electronically submit HMD/BEP.
Enf Action Division: Orange County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 413874
Facility Name: WOODBRIDGE HIGH SCHOOL
Env Int Type Code: HMBP
Program ID: 10540585
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.676990
Longitude: -117.804600

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Jennifer Razo
Entity Title: Sustainability Supervisor
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Woodbridge High School
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana

WOODBRIDGE HIGH SCHOOL (Continued) **S109548305**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Document Preparer
Entity Name:	Jennifer Razo
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jennifer Razo
Entity Title:	Not reported
Affiliation Address:	100 Nightmist
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2 Meadowbrook
Affiliation City:	IRVINE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92604
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Irvine Unified School District
Entity Title:	Not reported
Affiliation Address:	100 NIGHTMIST AVE
Affiliation City:	IRVINE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92618
Affiliation Phone:	(949) 936-5300
Affiliation Type Desc:	Operator
Entity Name:	Woodbridge High School
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(949) 936-7800

F37
ESE
1/8-1/4
0.232 mi.
1227 ft.

IRVINE USD WHS
2 MEADOWBROOK
IRVINE, CA 92604

Site 2 of 2 in cluster F

RCRA-SQG
FINDS
ECHO
EMI

1000256346
CAD981688682

Relative:
Higher

Actual:
85 ft.

RCRA-SQG:

Date form received by agency:	1986-11-05 00:00:00.0
Facility name:	IRVINE USD WHS
Facility address:	2 MEADOWBROOK IRVINE, CA 92614
EPA ID:	CAD981688682
Mailing address:	5050 BARANCA PKWY IRVINE, CA 92711
Contact:	ENVIRONMENTAL MANAGER
Contact address:	#2 MEADOWBROOK IRVINE, CA 92714
Contact country:	US
Contact telephone:	714-559-1936
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	IRVINE SCHOOL DISTRICT
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

IRVINE USD WHS (Continued) **1000256346**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110008272591

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000256346
Registry ID:	110008272591
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008272591

EMI:

Name:	IRVINE UNIFIED SCHOOL DIST
Address:	#2 MEADOWBROOK
City,State,Zip:	IRVINE, CA 927140000
Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	77410
Air District Name:	SC
SIC Code:	8211
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0

IRVINE USD WHS (Continued) **1000256346**

Carbon Monoxide Emissions Tons/Yr: 2
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

38
East
1/8-1/4
0.242 mi.
1279 ft.

IRVINE USD IRVINE UNIFIED SELF
311 W YALE LOOP
IRVINE, CA 92614

RCRA-SQG **1000256349**
FINDS **CAD981688864**
ECHO

Relative:
Higher

Actual:
82 ft.

RCRA-SQG:

Date form received by agency:	1986-11-05 00:00:00.0
Facility name:	IRVINE USD IRVINE UNIFIED SELF
Facility address:	311 W YALE LOOP IRVINE, CA 92614
EPA ID:	CAD981688864
Mailing address:	5050 BARRANCA PKWY IRVINE, CA 92711
Contact:	ENVIRONMENTAL MANAGER
Contact address:	311 W YALE LOOP IRVINE, CA 92714
Contact country:	US
Contact telephone:	714-559-1936
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	IRVINE SCHOOL DISTRICT
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	District

IRVINE USD IRVINE UNIFIED SELF (Continued) **1000256349**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110008272626

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000256349
Registry ID: 110008272626
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110008272626

D39 ENE 1/8-1/4 0.248 mi. 1311 ft. **ORANGE COUNTY FIRE STATION #36** **LUST S103650877**
301 YALE LOOP **CERS N/A**
IRVINE, CA 92714
Site 2 of 2 in cluster D

Relative: Higher
Actual: 79 ft.

LUST:
Name: ORANGE COUNTY FIRE STATION #36
Address: 301 YALE LOOP
City,State,Zip: IRVINE, CA 92604
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605906369

ORANGE COUNTY FIRE STATION #36 (Continued) **S103650877**

Global Id:	T0605906369
Latitude:	33.681823
Longitude:	-117.806558
Status:	Completed - Case Closed
Status Date:	09/13/2002
Case Worker:	JW
RB Case Number:	Not reported
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	02UT001
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605906369
Contact Type:	Local Agency Caseworker
Contact Name:	JULIE WOZENCRAFT
Organization Name:	ORANGE COUNTY LOP
Address:	1241 EAST DYER ROAD SUITE 120
City:	SANTA ANA
Email:	jwozencraft@ochca.com
Phone Number:	7144336252

Global Id:	T0605906369
Contact Type:	Regional Board Caseworker
Contact Name:	NONE
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	Not reported
City:	RIVERSIDE
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0605906369
Action Type:	ENFORCEMENT
Date:	09/13/2002
Action:	Closure/No Further Action Letter

LUST:

Global Id:	T0605906369
Status:	Completed - Case Closed
Status Date:	09/13/2002

Global Id:	T0605906369
Status:	Open - Case Begin Date
Status Date:	09/13/2002

Name:	ORANGE COUNTY FIRE STATION #36
Address:	301 YALE LOOP
City,State,Zip:	IRVINE, CA 92714
Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900117
Global Id:	T0605900117
Latitude:	33.6822918

ORANGE COUNTY FIRE STATION #36 (Continued) **S103650877**

Longitude:	-117.8058669
Status:	Completed - Case Closed
Status Date:	09/21/1994
Case Worker:	JW
RB Case Number:	083000155T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	87UT076
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605900117
Contact Type:	Local Agency Caseworker
Contact Name:	JULIE WOZENCRAFT
Organization Name:	ORANGE COUNTY LOP
Address:	1241 EAST DYER ROAD SUITE 120
City:	SANTA ANA
Email:	jwozencraft@ochca.com
Phone Number:	7144336252

Global Id:	T0605900117
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	valerie.jahn-bull@waterboards.ca.gov
Phone Number:	9517824903

LUST:

Global Id:	T0605900117
Action Type:	REMEDIATION
Date:	08/23/1988
Action:	Excavation

Global Id:	T0605900117
Action Type:	Other
Date:	04/07/1987
Action:	Leak Reported

Global Id:	T0605900117
Action Type:	Other
Date:	04/07/1987
Action:	Leak Discovery

LUST:

Global Id:	T0605900117
Status:	Open - Case Begin Date
Status Date:	04/07/1987

Global Id:	T0605900117
Status:	Completed - Case Closed
Status Date:	09/21/1994

ORANGE COUNTY FIRE STATION #36 (Continued) **S103650877**

CERS:
Name: ORANGE COUNTY FIRE STATION #36
Address: 301 YALE LOOP
City,State,Zip: IRVINE, CA 92714
Site ID: 234041
CERS ID: T0605900117
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

Affiliation Type Desc: Local Agency Caseworker
Entity Name: JULIE WOZENCRAFT - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336252

Name: ORANGE COUNTY FIRE STATION #36
Address: 301 YALE LOOP
City,State,Zip: IRVINE, CA 92604
Site ID: 245388
CERS ID: T0605906369
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: NONE - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: JULIE WOZENCRAFT - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 EAST DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336252

40
NE
1/8-1/4
0.250 mi.
1318 ft.

WOODBRIDGE PINES
115 PINESTONE
IRVINE, CA 92604

RCRA NonGen / NLR

1024785590
CAL000004427

Relative:
Higher

Actual:
76 ft.

RCRA NonGen / NLR:

Date form received by agency:	1989-11-14 00:00:00.0
Facility name:	WOODBRIDGE PINES
Facility address:	115 PINESTONE IRVINE, CA 92604
EPA ID:	CAL000004427
Mailing address:	131 THEORY IRVINE, CA 92617-3040
Contact:	ANDY REYES
Contact address:	131 THEORY IRVINE, CA 92617
Contact country:	Not reported
Contact telephone:	949-720-5420
Contact email:	AREYES@IRVINECOMPANY.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	ANDY REYES
Owner/operator address:	131 THEORY IRVINE, CA 92617
Owner/operator country:	Not reported
Owner/operator telephone:	949-720-5420
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	IRVINE COMPANY APARTMENT COMMUNITIE
Owner/operator address:	131 THEORY IRVINE, CA 92617
Owner/operator country:	Not reported
Owner/operator telephone:	949-720-5600
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No

WOODBRIDGE PINES (Continued) **1024785590**

On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

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41 ENE 1/4-1/2 0.271 mi. 1430 ft.

ARROWHEAD DRINKING WATER **RCRA-SQG 1000344045**
4250 N. BALDWIN **LUST CAD981438229**
EL MONTE, CA 91731 **HIST CORTESE**

Relative: Higher

Actual: 80 ft.

RCRA-SQG:

Date form received by agency:	1986-09-16 00:00:00.0
Facility name:	ARROWHEAD DRINKING WATER
Facility address:	4250 N. BALDWIN EL MONTE, CA 91731
EPA ID:	CAD981438229
Mailing address:	PO BOX 2293 TERMINAL ANNEX LOS ANGELES, CA 90051
Contact:	ENVIRONMENTAL MANAGER
Contact address:	4250 N. BALDWIN EL MONTE, CA 91731
Contact country:	US
Contact telephone:	213-741-0457
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	VERAL SUTTON
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

ARROWHEAD DRINKING WATER (Continued) **1000344045**

Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-09169
Status: Leak being confirmed
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704784
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: BESSIE AVE
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 9/22/1994
Date Leak Record Entered: 9/16/1996
Date Confirmation Began: 9/22/1994
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 9/22/1994
Date the Case was Closed: Not reported
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported

ARROWHEAD DRINKING WATER (Continued) **1000344045**

Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	613.6184785140374795630108 3089
Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	ARROWHEAD DRINKING WATER
RP Address:	4250 BALDWIN AVE N., EL MONTE CA 91731
Program:	LUST
Lat/Long:	34.0848462 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

HIST CORTESE:

edr_fname:	ARROWHEAD DRINKING WATER
edr_fadd1:	4250 BALDWIN
City,State,Zip:	EL MONTE, CA 91731
Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-09169

G42 **TREASURE FARMS #151-6** **LUST** **S110654822**
North **CULVER DR** **N/A**
1/4-1/2 **IRVINE, CA 92714**
0.420 mi.
2217 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
66 ft.

LUST:

Name:	TREASURE FARMS #151-6
Address:	CULVER DR
City,State,Zip:	IRVINE, CA 92714
Lead Agency:	ORANGE COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901355
Global Id:	T0605901355
Latitude:	33.6882389
Longitude:	-117.810676
Status:	Completed - Case Closed

TREASURE FARMS #151-6 (Continued) **S110654822**

Status Date: 07/24/2003
Case Worker: LL
RB Case Number: 083001814T
Local Agency: ORANGE COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605901355
Contact Type: Local Agency Caseworker
Contact Name: LUIS LODRIGUEZA
Organization Name: ORANGE COUNTY
Address: 2009 E. EDINGER AVE.
City: SANTA ANA
Email: Not reported
Phone Number: Not reported

Global Id: T0605901355
Contact Type: Regional Board Caseworker
Contact Name: MIGUEL OVIEDO
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: miguel.oviedo@waterboards.ca.gov
Phone Number: 9517823238

LUST:
Global Id: T0605901355
Action Type: Other
Date: 07/20/1991
Action: Leak Reported

LUST:
Global Id: T0605901355
Status: Open - Case Begin Date
Status Date: 07/20/1991

Global Id: T0605901355
Status: Open - Site Assessment
Status Date: 08/02/1991

Global Id: T0605901355
Status: Completed - Case Closed
Status Date: 07/24/2003

G43 **IRVINE CO ORANGE GV #227 & 235** **LUST** **S110654819**
North **TRABUCO RD** **CERS** **N/A**
1/4-1/2 **IRVINE, CA 92714**
0.420 mi.
2217 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
66 ft.

LUST:

Name:	IRVINE CO ORANGE GV #227 & 235
Address:	TRABUCO RD
City,State,Zip:	IRVINE, CA 92714
Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900869
Global Id:	T0605900869
Latitude:	33.6882389
Longitude:	-117.810676
Status:	Completed - Case Closed
Status Date:	08/18/2006
Case Worker:	Not reported
RB Case Number:	083001099T
Local Agency:	ORANGE COUNTY
File Location:	Not reported
Local Case Number:	90IC023
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605900869
Contact Type:	Local Agency Caseworker
Contact Name:	LUIS LODRIGUEZA
Organization Name:	ORANGE COUNTY
Address:	2009 E. EDINGER AVE.
City:	SANTA ANA
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0605900869
Contact Type:	Regional Board Caseworker
Contact Name:	MIGUEL OVIEDO
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 Main Street, Suite 500
City:	RIVERSIDE
Email:	miguel.oviedo@waterboards.ca.gov
Phone Number:	9517823238

LUST:

Global Id:	T0605900869
Action Type:	Other
Date:	11/15/1988
Action:	Leak Reported

Global Id:	T0605900869
Action Type:	ENFORCEMENT
Date:	05/22/2003
Action:	Closure/No Further Action Letter

Global Id:	T0605900869
Action Type:	Other

IRVINE CO ORANGE GV #227 & 235 (Continued) **S110654819**

Date: 10/06/1988
Action: Leak Discovery

LUST:
Global Id: T0605900869
Status: Open - Case Begin Date
Status Date: 10/06/1988

Global Id: T0605900869
Status: Open - Site Assessment
Status Date: 12/15/1988

Global Id: T0605900869
Status: Completed - Case Closed
Status Date: 08/18/2006

CERS:
Name: IRVINE CO ORANGE GV #227 & 235
Address: TRABUCO RD
City,State,Zip: IRVINE, CA 92714
Site ID: 249475
CERS ID: T0605900869
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: LUIS LODRIGUEZA - ORANGE COUNTY
Entity Title: Not reported
Affiliation Address: 2009 E. EDINGER AVE.
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 Main Street, Suite 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517823238

H44 **WOODBRIDGE AUTO WASH** **LUST** **S104160979**
ESE **4550 BARRANCA** **HIST UST** **N/A**
1/4-1/2 **IRVINE, CA 92714**
0.465 mi.
2453 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
82 ft.

ORANGE CO. LUST:
Name: BEACON BAY AUTO WASH WOODBRIDGE
Address: 4550 BARRANCA PKWY
City,State,Zip: IRVINE, CA 92604

WOODBRIDGE AUTO WASH (Continued) **S104160979**

Region: ORANGE
Facility Id: 85UT087
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 03/07/2017
Record ID: RO0002837

LUST REG 8:

Name:	WOODBRIDGE AUTO WASH
Address:	4550 BARRANCA
City:	IRVINE
Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	No Action
Case Number:	083000448T
Local Case Num:	85UT087
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	SEL
Funding:	Not reported
How Discovered:	UM
How Stopped:	NPP
Leak Cause:	Unknown
Leak Source:	D
Global ID:	T0605900359
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	1/7/1999
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	9/24/2003
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.6790863
Longitude:	-117.8006678
MTBE Date:	3/9/2004
Max MTBE GW:	18000
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	NOM

WOODBRIDGE AUTO WASH (Continued) **S104160979**

Staff Initials:	SS
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

LUST:

Name:	BEACON BAY AUTO WASH WOODBRIDGE
Address:	4550 BARRANCA
City,State,Zip:	IRVINE, CA 92604
Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900359
Global Id:	T0605900359
Latitude:	33.6786627512158
Longitude:	-117.801784296023
Status:	Completed - Case Closed
Status Date:	03/07/2017
Case Worker:	JW
RB Case Number:	083000448T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	85UT087
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:

Global Id:	T0605900359
Contact Type:	Local Agency Caseworker
Contact Name:	JULIE WOZENCRAFT
Organization Name:	ORANGE COUNTY LOP
Address:	1241 EAST DYER ROAD SUITE 120
City:	SANTA ANA
Email:	jwozencraft@ochca.com
Phone Number:	7144336252

Global Id:	T0605900359
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0605900359
Action Type:	ENFORCEMENT
Date:	01/11/2011

WOODBRIDGE AUTO WASH (Continued) **S104160979**

Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 03/07/2017
Action: Closure/No Further Action Letter

Global Id: T0605900359
Action Type: Other
Date: 01/07/1999
Action: Leak Discovery

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 06/07/2011
Action: File review

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 01/26/2017
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 02/04/2016
Action: Staff Letter

Global Id: T0605900359
Action Type: RESPONSE
Date: 06/06/2013
Action: Well Destruction Workplan - Regulator Responded

Global Id: T0605900359
Action Type: RESPONSE
Date: 09/26/2012
Action: Closure Report - Regulator Responded

Global Id: T0605900359
Action Type: RESPONSE
Date: 12/13/2016
Action: Request for Closure - Regulator Responded

Global Id: T0605900359
Action Type: RESPONSE
Date: 06/23/2016
Action: Request for Closure - Regulator Responded

Global Id: T0605900359
Action Type: REMEDIATION
Date: 09/14/1998
Action: Soil Vapor Extraction (SVE)

Global Id: T0605900359
Action Type: REMEDIATION
Date: 11/01/1992
Action: Pump & Treat (P&T) Groundwater

WOODBRIDGE AUTO WASH (Continued) **S104160979**

Global Id: T0605900359
Action Type: REMEDIATION
Date: 08/02/2002
Action: Excavation

Global Id: T0605900359
Action Type: REMEDIATION
Date: 11/29/2005
Action: Soil Vapor Extraction (SVE)

Global Id: T0605900359
Action Type: REMEDIATION
Date: 10/12/1981
Action: Free Product Removal

Global Id: T0605900359
Action Type: REMEDIATION
Date: 10/18/2006
Action: Dual Phase Extraction

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 12/09/2003
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 02/01/1986
Action: Notice of Responsibility

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 07/08/2003
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 08/13/2004
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 06/16/2004
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 03/07/2005
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 11/08/2005
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT

WOODBRIDGE AUTO WASH (Continued) **S104160979**

Date: 08/03/2004
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 08/27/2007
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 11/05/2015
Action: Notification - Preclosure

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 06/14/2016
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 06/05/2012
Action: File review

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 09/20/2016
Action: Staff Letter

Global Id: T0605900359
Action Type: Other
Date: 07/01/1999
Action: Leak Reported

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 03/12/2003
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 12/08/2004
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 02/27/2004
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 06/03/2013
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 04/21/2009
Action: Staff Letter

WOODBRIDGE AUTO WASH (Continued) **S104160979**

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 08/14/2015
Action: Notification - Public Notice of Case Closure

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 08/14/2015
Action: Notification - Public Notice of Case Closure

Global Id: T0605900359
Action Type: RESPONSE
Date: 09/01/1986
Action: Soil and Water Investigation Workplan

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 10/06/2009
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 09/02/2015
Action: Notification - Public Notice of Case Closure

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 03/09/2010
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 05/14/2014
Action: File review

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 08/13/2014
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 08/14/2015
Action: Notification - Public Participation Document

Global Id: T0605900359
Action Type: Other
Date: 01/07/1999
Action: Leak Began

Global Id: T0605900359
Action Type: ENFORCEMENT

WOODBRIDGE AUTO WASH (Continued) **S104160979**

Date: 08/12/2010
Action: Staff Letter

Global Id: T0605900359
Action Type: ENFORCEMENT
Date: 12/22/2015
Action: Staff Letter

LUST:
Global Id: T0605900359
Status: Open - Case Begin Date
Status Date: 02/01/1986

Global Id: T0605900359
Status: Open - Remediation
Status Date: 09/24/2003

Global Id: T0605900359
Status: Open - Remediation
Status Date: 12/10/2004

Global Id: T0605900359
Status: Open - Site Assessment
Status Date: 08/12/2014

Global Id: T0605900359
Status: Open - Eligible for Closure
Status Date: 06/02/2015

Global Id: T0605900359
Status: Completed - Case Closed
Status Date: 03/07/2017

HIST UST:
Name: WOODRIDGE AUTO WASH
Address: 4550 BARRANCA
City,State,Zip: IRVINE, CA 92714
File Number: 0002E56D
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E56D.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported

WOODBRIDGE AUTO WASH (Continued) **S104160979**

Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

H45 **WOODBRIDGE AUTO WASH** **SWEEPS UST** **S101619836**
ESE **4550 BARRANCA PY** **CA FID UST** **N/A**
1/4-1/2 **IRVINE, CA 92714** **HIST CORTESE**
0.465 mi.
2453 ft. **Site 2 of 2 in cluster H**

Relative:
Higher

Actual:
82 ft.

SWEEPS UST:

Name:	WOODBRIDGE AUTO WASH
Address:	4550 BARRANCA PY
City:	IRVINE
Status:	Active
Comp Number:	4107
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-004107-000001
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	6

Name:	WOODBRIDGE AUTO WASH
Address:	4550 BARRANCA PY
City:	IRVINE
Status:	Active
Comp Number:	4107
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-004107-000002
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Name:	WOODBRIDGE AUTO WASH
Address:	4550 BARRANCA PY
City:	IRVINE
Status:	Active
Comp Number:	4107

WOODBRIDGE AUTO WASH (Continued) **S101619836**

Number: 9
Board Of Equalization: Not reported
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004107-000003
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: WOODBRIDGE AUTO WASH
Address: 4550 BARRANCA PY
City: IRVINE
Status: Active
Comp Number: 4107
Number: 9
Board Of Equalization: Not reported
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004107-000004
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: WOODBRIDGE AUTO WASH
Address: 4550 BARRANCA PY
City: IRVINE
Status: Active
Comp Number: 4107
Number: 9
Board Of Equalization: Not reported
Referral Date: 09-30-92
Action Date: 09-15-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 30-000-004107-000005
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: WOODBRIDGE AUTO WASH
Address: 4550 BARRANCA PY

WOODBRIDGE AUTO WASH (Continued) **S101619836**

City:	IRVINE
Status:	Active
Comp Number:	4107
Number:	9
Board Of Equalization:	Not reported
Referral Date:	09-30-92
Action Date:	09-15-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-000-004107-000006
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	30017454
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7146444460
Mail To:	Not reported
Mailing Address:	260 NEWPORT CENTER DR
Mailing Address 2:	Not reported
Mailing City,St,Zip:	IRVINE 92714
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

HIST CORTESE:

edr_fname:	WOODBRIDGE AUTO WASH
edr_fadd1:	4550
City,State,Zip:	IRVINE, CA 92714
Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083000448T

46
East
1/4-1/2
0.498 mi.
2627 ft.

SUNNY FRESH CLEANERS **CPS-SLIC** **S105181574**
4722 BARRANCA PKWY **Orange Co. Industrial Site** **N/A**
IRVINE, CA 92714 **DRYCLEANERS**
CERS

Relative:
Higher

Actual:
89 ft.

CPS-SLIC:

Name:	SUNNY FRESH CLEANERS #7
Address:	4722 BARRANCA PARKWAY
City,State,Zip:	IRVINE, CA
Region:	STATE

SUNNY FRESH CLEANERS (Continued) **S105181574**

Facility Status:	**Completed - Case Closed**
Status Date:	11/23/1999
Global Id:	SLT8R0693953
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number:	Not reported
Latitude:	33.677514901447
Longitude:	-117.799165248871
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	SLT8R069
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Tetrachloroethylene (PCE), Trichloroethylene (TCE)
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 8:

Name:	SUNNY FRESH CLEANERS # 7
Address:	4722 BARRANCA PARKWAY
City:	IRVINE
Type:	Soil and Groundwater
Facility Status:	Closed
Staff:	WDM
Substance:	TCE, PCE
Lead Agency:	Regional Board
Location Code:	I-2
Thomas Bros Code:	860-F6

Orange Co. Industrial Site:

Name:	SUNNY FRESH CLEANERS
Address:	4722 BARRANCA PKWY
City,State,Zip:	IRVINE, CA 92714
Case ID:	96IC029
Record ID:	RO0000550
Current Status:	CLOSED 9/18/1997
Closure Type:	Closure certification issued
Released Chemical:	PERCHLOROETHYLENE

DRYCLEANERS:

Name:	SUNNYFRESH CLEANERS
Address:	4722 BARRANCA PKWY
City,State,Zip:	IRVINE, CA 926044729
EPA Id:	CAL000225958
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	12/28/2001
Facility Active:	No
Inactive Date:	06/30/2006
Facility Addr2:	Not reported
Owner Name:	SUNNYFRESH CLEANERS LLC #7
Owner Address:	4722 BARRANCA PKWY
Owner Address 2:	Not reported

SUNNY FRESH CLEANERS (Continued) **S105181574**

Owner Telephone:	9495525337
Contact Name:	GREG KEARNS
Contact Address:	=L
Contact Address 2:	Not reported
Contact Telephone:	9495225337
Mailing Name:	Not reported
Mailing Address 1:	4722 BARRANCA PKWY
Mailing Address 2:	Not reported
Mailing City:	IRVINE
Mailing State:	CA
Mailing Zip:	926044729
Owner Fax:	Not reported
Region Code:	4

CERS:

Name:	SUNNY FRESH CLEANERS #7
Address:	4722 BARRANCA PARKWAY
City,State,Zip:	IRVINE, CA
Site ID:	229674
CERS ID:	SLT8R0693953
CERS Description:	Cleanup Program Site

I47 **TUSTIN PARCEL C** **ENVIROSTOR** **S101481492**
NW **BARRANCA PKWY & HARVARD AVE.** **N/A**
1/2-1 **TUSTIN, CA 92680**
0.513 mi.
2711 ft. **Site 1 of 2 in cluster I**

Relative:
Lower

Actual:
52 ft.

ENVIROSTOR:

Name:	TUSTIN PARCEL C
Address:	BARRANCA PKWY & HARVARD AVE.
City,State,Zip:	TUSTIN, CA 92680
Facility ID:	30970006
Status:	No Further Action
Status Date:	01/21/1992
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Cypress
Assembly:	74
Senate:	37
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.6996
Longitude:	-117.8351
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED

TUSTIN PARCEL C (Continued) **S101481492**

Potential Description: NONE SPECIFIED
Alias Name: PARCEL C -NEW FAMILY HOUSING/TUSTIN USMC
Alias Type: Alternate Name
Alias Name: 30970006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/28/1994
Comments: Database Validation Program confirms NFA for DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/27/1992
Comments: PEA Report submitted 3/20/92 was approved by DTSC. DTSC concurs that NFA is necessary for pesticide contamination at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 01/21/1992
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

I48 **TUSTIN ELEMENTARY SCHOOL (PARCEL 39)** **ENVIROSTOR** **S107737481**
NW **BARRANCA PARKWAY/HARVARD AVENUE** **SCH** **N/A**
1/2-1 **IRVINE, CA 92606**
0.513 mi.
2711 ft. **Site 2 of 2 in cluster I**

Relative: **Lower**
Actual: **52 ft.**

ENVIROSTOR:
Name: TUSTIN ELEMENTARY SCHOOL (PARCEL 39)
Address: BARRANCA PARKWAY/HARVARD AVENUE
City,State,Zip: IRVINE, CA 92606
Facility ID: 30970013
Status: No Further Action
Status Date: 06/11/2003
Site Code: 404360
Site Type: School Investigation
Site Type Detailed: School
Acres: 20
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Yolanda Garza

TUSTIN ELEMENTARY SCHOOL (PARCEL 39) (Continued) **S107737481**

Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 74
Senate: 37
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.68838
Longitude: -117.8175
APN: NONE SPECIFIED
Past Use: * NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC: Arsenic Benzene Chlordane DDD DDE DDT Lead
Confirmed COC: 30001-NO 30003-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO
Potential Description: SOIL
Alias Name: IRVINE UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: IRVINE USD-PROPOSED TUSTIN ELEMENTARY
Alias Type: Alternate Name
Alias Name: TUSTIN ELEMENTARY SCHOOL (PARCEL 39)
Alias Type: Alternate Name
Alias Name: 404360
Alias Type: Project Code (Site Code)
Alias Name: 30970013
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/11/2003
Comments: PEA completed and No Further Action Issued

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 02/20/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/17/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 08/29/2002
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

TUSTIN ELEMENTARY SCHOOL (PARCEL 39) (Continued) **S107737481**

Schedule Revised Date: Not reported

SCH:

Name:	TUSTIN ELEMENTARY SCHOOL (PARCEL 39)
Address:	BARRANCA PARKWAY/HARVARD AVENUE
City,State,Zip:	IRVINE, CA 92606
Facility ID:	30970013
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	20
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404360
Assembly:	74
Senate:	37
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	06/11/2003
Restricted Use:	NO
Funding:	School District
Latitude:	33.68838
Longitude:	-117.8175
APN:	NONE SPECIFIED
Past Use:	* NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Potential COC:	Arsenic, Benzene, Chlordane, DDD, DDE, DDT, Lead
Confirmed COC:	30001-NO, 30003-NO, 30004-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO
Potential Description:	SOIL
Alias Name:	IRVINE UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	IRVINE USD-PROPOSED TUSTIN ELEMENTARY
Alias Type:	Alternate Name
Alias Name:	TUSTIN ELEMENTARY SCHOOL (PARCEL 39)
Alias Type:	Alternate Name
Alias Name:	404360
Alias Type:	Project Code (Site Code)
Alias Name:	30970013
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/11/2003
Comments:	PEA completed and No Further Action Issued

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Workplan
Completed Date:	02/20/2003
Comments:	Not reported

TUSTIN ELEMENTARY SCHOOL (PARCEL 39) (Continued) **S107737481**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/17/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	08/29/2002
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 6 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
IRVINE	S121619686	ALTON PARKWAY	ALTON PARKWAY		CIWQS
IRVINE	S121619683	ALTON PARKWAY EXTENSION, IRVINE BL	ALTON PARKWAY		CIWQS
IRVINE	1023203569	ALTON PARKWAY EXTENSIONNA IRVINE B	ALTON	92604	FINDS
IRVINE	1023295596	CULVER DRIVE REALIGNMENT	CULVER	92612	FINDS
IRVINE	S107027308	CARSON - 91 LLC	MAIN STREET & 91 FREEWAY	92612	ENVIROSTOR
ORANGE COUNTY	S117692845	18787 ALTON PARKWAY	18787 ALTON PARKWAY		CIWQS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/04/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

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

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/13/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

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

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/13/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 57

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

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

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 07/02/2019
Date Data Arrived at EDR: 10/16/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 8

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/12/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 79

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 20

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/12/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 59

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/01/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/29/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 09/24/2019
Number of Days to Update: 70

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

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

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/11/2019
Number of Days to Update: 70

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/30/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/04/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 58

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 79

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/23/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/07/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/11/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/08/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/23/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 106

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/23/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 09/05/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 18

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/07/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/20/2019
Date Data Arrived at EDR: 06/20/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 49

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/06/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/03/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/06/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 85

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/16/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2019
Next Scheduled EDR Contact: 01/19/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/21/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 82

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/27/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 76

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/27/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 06/06/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 140
Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 09/12/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/30/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/30/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/03/2019
Date Data Arrived at EDR: 06/05/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 90
Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/04/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/10/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 07/06/2019
Date Data Arrived at EDR: 07/09/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/08/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 83
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Quarterly

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

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 43
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 68
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/15/2019
Next Scheduled EDR Contact: 11/25/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/28/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 55

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 09/27/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/24/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 59

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/18/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/22/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 66

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/30/2019
Next Scheduled EDR Contact: 02/02/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 69

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/16/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/29/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 54

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/07/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 30

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/08/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/04/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/13/2019
Date Made Active in Reports: 10/16/2019
Number of Days to Update: 64
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/04/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/16/2019
Date Data Arrived at EDR: 09/18/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/16/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 09/04/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 08/21/2019
Number of Days to Update: 7

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/22/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/01/2019
Number of Days to Update: 53

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/30/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 10/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 34

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 51

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/05/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/23/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 08/23/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 60

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 07/30/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 68

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 09/06/2019
Date Data Arrived at EDR: 09/12/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 49

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2019
Date Data Arrived at EDR: 07/11/2019
Date Made Active in Reports: 09/20/2019
Number of Days to Update: 71

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/08/2019
Date Data Arrived at EDR: 07/10/2019
Date Made Active in Reports: 09/20/2019
Number of Days to Update: 72

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/19/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/06/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 63

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/16/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/15/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/22/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 09/12/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 10/04/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 34

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/15/2019
Date Data Arrived at EDR: 07/17/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 71

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/16/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/27/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/18/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/27/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/27/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/15/2019
Date Data Arrived at EDR: 07/17/2019
Date Made Active in Reports: 08/05/2019
Number of Days to Update: 19
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/22/2019
Date Data Arrived at EDR: 08/26/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 64

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/25/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 07/22/2019
Number of Days to Update: 53

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 10/18/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/21/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 58

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/25/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 62

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/30/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/05/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/23/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/07/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 63

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/09/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 61

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 08/06/2019
Date Made Active in Reports: 10/09/2019
Number of Days to Update: 64

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/05/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/05/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 61

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 07/11/2019
Date Made Active in Reports: 09/20/2019
Number of Days to Update: 71

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/16/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/10/2019
Date Data Arrived at EDR: 07/11/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/16/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/06/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 37

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/07/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 07/16/2019
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 09/24/2019
Number of Days to Update: 70

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 62

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/04/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/16/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 69

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/11/2019
Next Scheduled EDR Contact: 12/29/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/05/2019
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/05/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/14/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 10/18/2019
Number of Days to Update: 59

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2019
Date Data Arrived at EDR: 08/02/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 67

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/14/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/28/2019
Date Data Arrived at EDR: 08/30/2019
Date Made Active in Reports: 10/29/2019
Number of Days to Update: 60

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/18/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 07/24/2019
Number of Days to Update: 29

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 36

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 07/18/2019
Date Data Arrived at EDR: 07/18/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 70

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/29/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 64

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/28/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 07/18/2019
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/26/2019
Number of Days to Update: 65

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 08/12/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 64

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 63

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/25/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 05/29/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 09/30/2019
Number of Days to Update: 63

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 07/26/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/25/2019
Date Data Arrived at EDR: 10/01/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 30

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/25/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 07/26/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/08/2019
Number of Days to Update: 69

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/14/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 08/05/2019
Number of Days to Update: 83

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/09/2019
Next Scheduled EDR Contact: 12/07/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/16/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CULVER DRIVE AND ALTON PARKWAY
CULVER DRIVE AND ALTON PARKWAY
IRVINE, CA 92604

TARGET PROPERTY COORDINATES

Latitude (North):	33.680868 - 33° 40' 51.12''
Longitude (West):	117.811479 - 117° 48' 41.32''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	424779.9
UTM Y (Meters):	3726874.2
Elevation:	72 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640942 TUSTIN, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

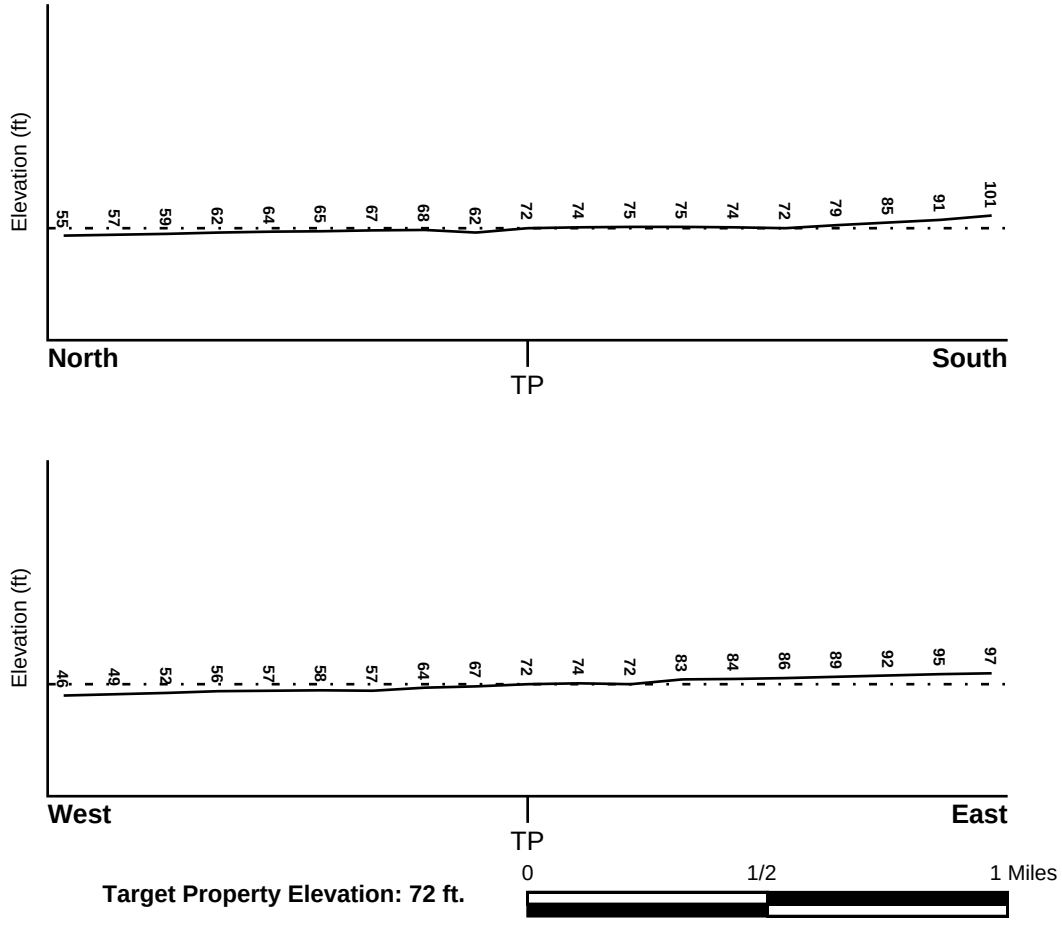
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 72 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06059C0291J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06059C0279J	FEMA FIRM Flood data
06059C0283J	FEMA FIRM Flood data
06059C0287J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
TUSTIN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
6	1/2 - 1 Mile ESE	WNW
11	1/2 - 1 Mile ESE	Not Reported
1G	1/2 - 1 Mile ESE	WNW
2G	1/2 - 1 Mile ESE	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

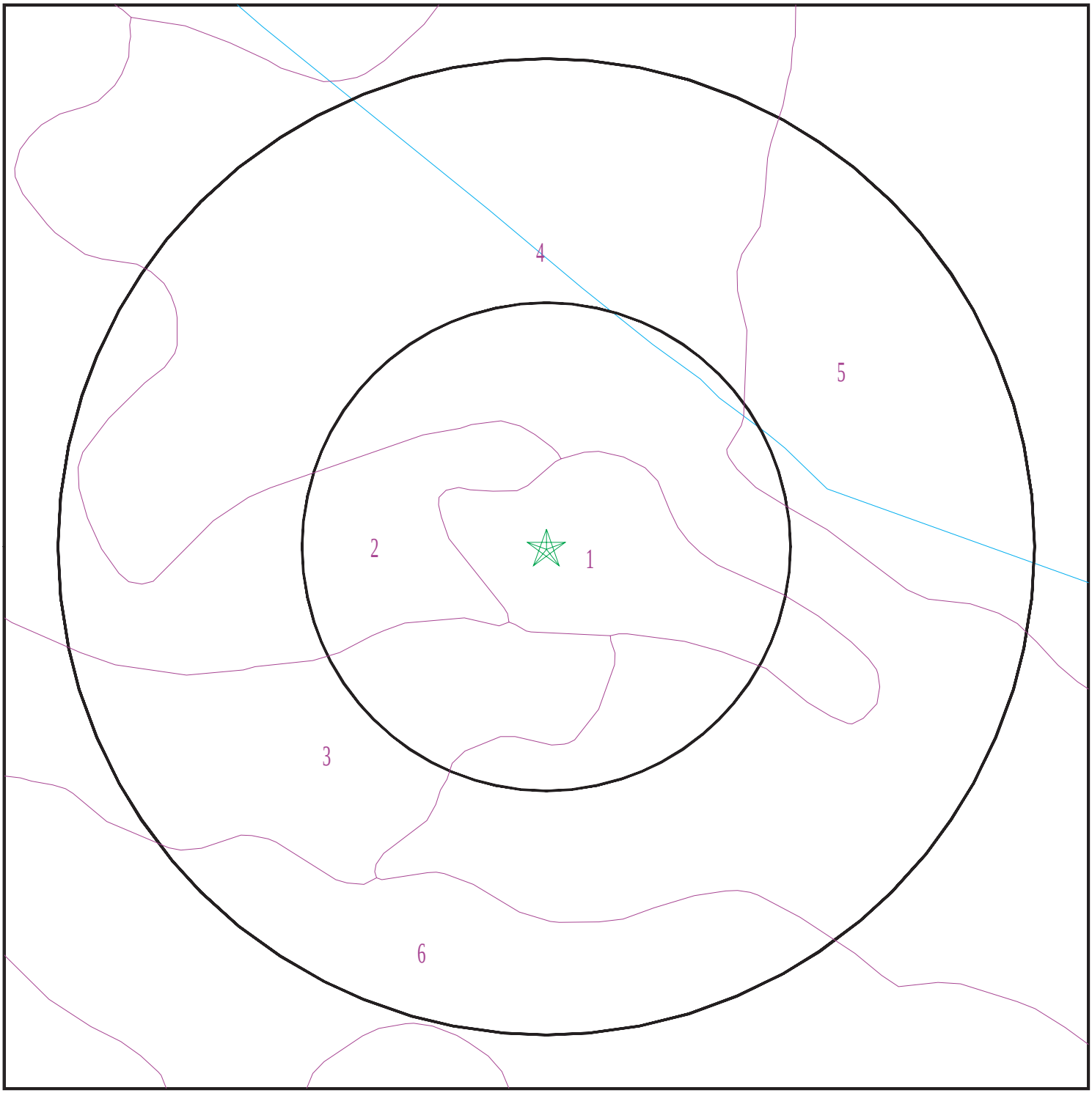
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5869999.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Culver Drive and Alton Parkway	CLIENT:	Stantec
ADDRESS:	Culver Drive and Alton Parkway Irvine CA 92604	CONTACT:	Emily Medler
LAT/LONG:	33.680868 / 117.811479	INQUIRY #:	5869999.2s
		DATE:	November 14, 2019 2:21 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SORRENTO

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	11 inches	61 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9
3	61 inches	72 inches	stratified loamy fine sand to silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: OMNI

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 9 Min: 7.9
2	11 inches	59 inches	silty clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 9 Min: 7.9

Soil Map ID: 3

Soil Component Name: CHINO

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	24 inches	silty clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9
2	24 inches	59 inches	sandy clay loam	Not reported	Not reported	Max: 4 Min: 1.4	Max: 8.4 Min: 7.9

Soil Map ID: 4

Soil Component Name: SORRENTO

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	11 inches	61 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9
3	61 inches	72 inches	stratified loamy fine sand to silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 5

Soil Component Name: SAN EMIGDIO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	7 inches	40 inches	stratified gravelly loamy coarse sand to very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 14	Max: 8.4 Min: 7.9
3	40 inches	44 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 14	Max: 8.4 Min: 7.9
4	44 inches	61 inches	stratified gravelly loamy coarse sand to very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 14	Max: 8.4 Min: 7.9

Soil Map ID: 6

Soil Component Name: SAN EMIGDIO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	7 inches	61 inches	stratified gravelly loamy coarse sand to very fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000136733	1/4 - 1/2 Mile NE
A3	USGS40000136767	1/2 - 1 Mile NE
5	USGS40000136601	1/2 - 1 Mile WSW
B8	USGS40000136648	1/2 - 1 Mile West
C13	USGS40000136688	1/2 - 1 Mile East
14	USGS40000136790	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	CADWR8000004908	1/2 - 1 Mile NE
A4	CADWR8000004910	1/2 - 1 Mile NE
7	CADWR8000004790	1/2 - 1 Mile ESE
9	CADWR8000004780	1/2 - 1 Mile SE
C10	CADWR8000004857	1/2 - 1 Mile East
B12	CADWR8000004823	1/2 - 1 Mile WSW

PHYSICAL SETTING SOURCE MAP - 5869999.2s

0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Culver Drive and Alton Parkway	CLIENT:	Stantec
ADDRESS:	Culver Drive and Alton Parkway Irvine CA 92604	CONTACT:	Emily Medler
LAT/LONG:	33.680868 / 117.811479	INQUIRY #:	5869999.2s
		DATE:	November 14, 2019 2:21 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000136733**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S009W03C001S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

A2
NE
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000004908**

State Well #:	05S09W34Q001S	Station ID:	29080
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

A3
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000136767**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S009W34Q001S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19300228	Well Depth:	690
Well Depth Units:	ft	Well Hole Depth:	1103
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	7	Level reading date:	1981-02-07
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The measurement was discontinued.		
Level reading date:	1981-02-06	Feet below surface:	7.19
Feet to sea level:	Not Reported		
Note:	The water level was affected by stage in nearby surface-water site.		
Level reading date:	1980-10-31	Feet below surface:	47.50
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.

Level reading date:	1971-01-06	Feet below surface:	31.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-21	Feet below surface:	86.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-07	Feet below surface:	108.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-09-25	Feet below surface:	125.10
Feet to sea level:	Not Reported	Note:	Not Reported

A4
NE
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000004910**

State Well #:	05S09W34Q002S	Station ID:	6509
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

5
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000136601**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S009W04K001S	Type:	Well
Description:	NAWQA DATA COM + VER 9-25-2000 SNHAMLIN		
HUC:	18070203	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Quaternary Alluvium	Aquifer Type:	Confined single aquifer
Construction Date:	19991204	Well Depth:	33.5
Well Depth Units:	ft	Well Hole Depth:	33.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2000-07-17
Feet below surface:	16.58	Feet to sea level:	Not Reported
Note:	Not Reported		

6
ESE
1/2 - 1 Mile
Higher

AQUIFLOW **34295**

Site ID:	083000448T
Groundwater Flow:	WNW
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	23.72
Date:	10/28/1998

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

7
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004790**

State Well #:	06S09W03R001S	Station ID:	5891
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

B8
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000136648**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S009W04L002S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

9
SE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004780**

State Well #:	06S09W03Q001S	Station ID:	27751
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

C10
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000004857**

State Well #:	06S09W02E001S	Station ID:	5890
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

11
ESE
1/2 - 1 Mile
Higher

AQUIFLOW **50935**

Site ID:	083003128T
Groundwater Flow:	Not Reported
Shallow Water Depth:	25 ft
Deep Water Depth:	Not Reported
Average Water Depth:	Not Reported
Date:	08/12/1998

B12
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000004823**

State Well #:	06S09W04L001S	Station ID:	47281
Well Name:	TIC-25	Well Use:	Observation
Well Type:	Single Well	Well Depth:	790
Basin Name:	Coastal Plain Of Orange County		
Well Completion Rpt #:	41833,35		

C13
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000136688**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	006S009W02E001S	Type:	Well
Description:	NAWQA DATA ENTRY VER.+COM. 09/09/1999 HAMLIN		
HUC:	18070203	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	California Coastal Basin aquifers
Formation Type:	Alluvium	Aquifer Type:	Confined single aquifer
Construction Date:	19760226	Well Depth:	910
Well Depth Units:	ft	Well Hole Depth:	910
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2004-06-02
Feet below surface:	285.6	Feet to sea level:	Not Reported
Note:	The site was being pumped.		

14
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000136790**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	005S009W34J002S	Type:	Well
Description:	Not Reported	HUC:	18070204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Hole Depth Units: Not Reported

1G
ESE
1/2 - 1 Mile
Lower

Site ID:	083000448T
Groundwater Flow:	WNW
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	23.72
Date:	10/28/1998

AQUIFLOW **34295**

2G
ESE
1/2 - 1 Mile
Lower

Site ID:	083003128T
Groundwater Flow:	Not Reported
Shallow Water Depth:	25 ft
Deep Water Depth:	Not Reported
Average Water Depth:	Not Reported
Date:	08/12/1998

AQUIFLOW **50935**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92604	41	4

Federal EPA Radon Zone for ORANGE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ORANGE COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.763 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Culver Drive and Alton Parkway

Culver Drive and Alton Parkway

Irvine, CA 92604

Inquiry Number: 5869999.8

November 14, 2019

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

11/14/19

Site Name:

Culver Drive and Alton Parkwa
Culver Drive and Alton Parkwa
Irvine, CA 92604
EDR Inquiry # 5869999.8

Client Name:

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
Contact: Emily Medler

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 03, 1989	USDA
1985	1"=500'	Flight Date: September 13, 1985	USDA
1977	1"=500'	Flight Date: January 18, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: October 30, 1972	USGS
1963	1"=500'	Flight Date: February 28, 1963	USGS
1952	1"=500'	Flight Date: December 12, 1952	USDA
1946	1"=500'	Flight Date: December 29, 1946	USGS
1938	1"=500'	Flight Date: June 21, 1938	USDA

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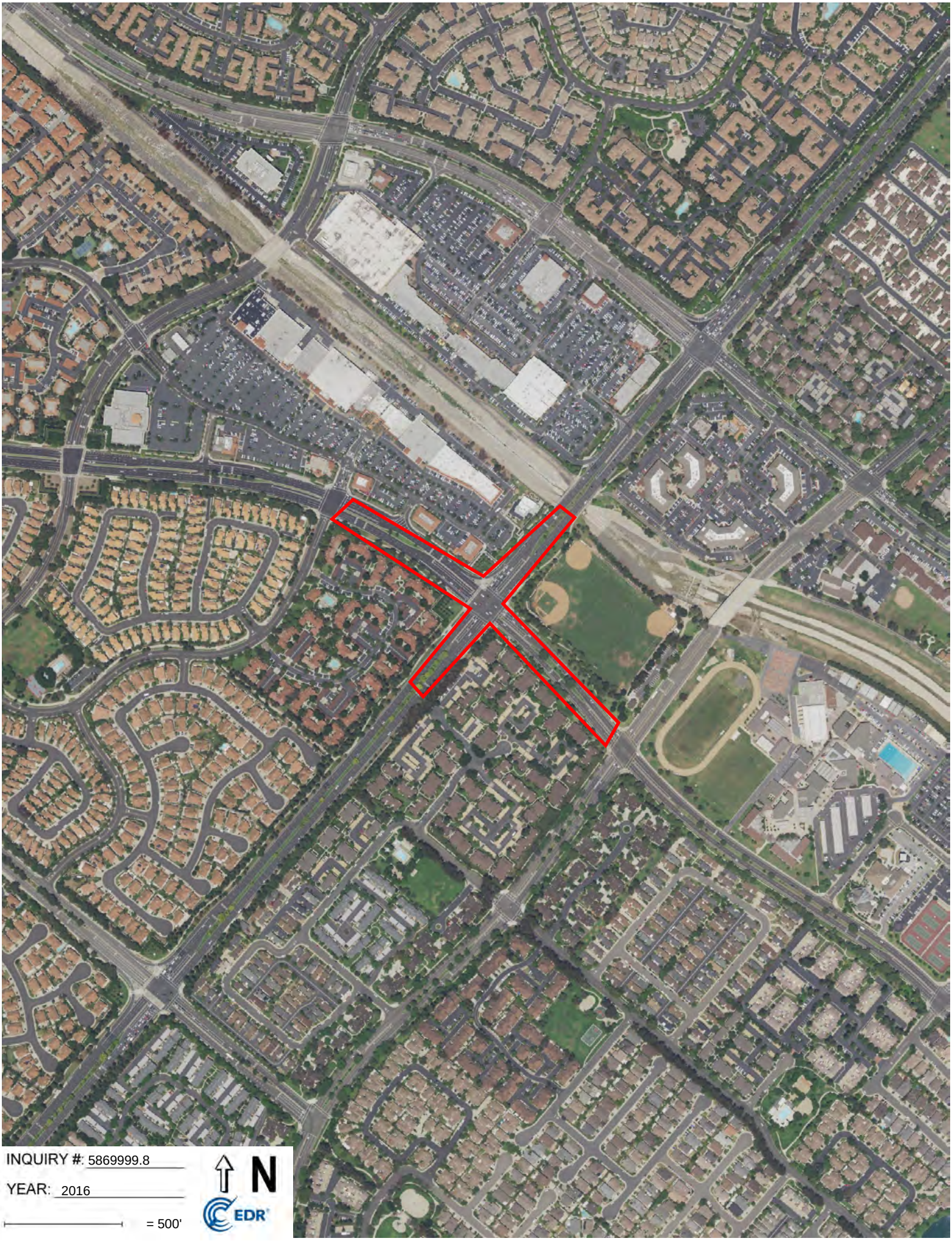
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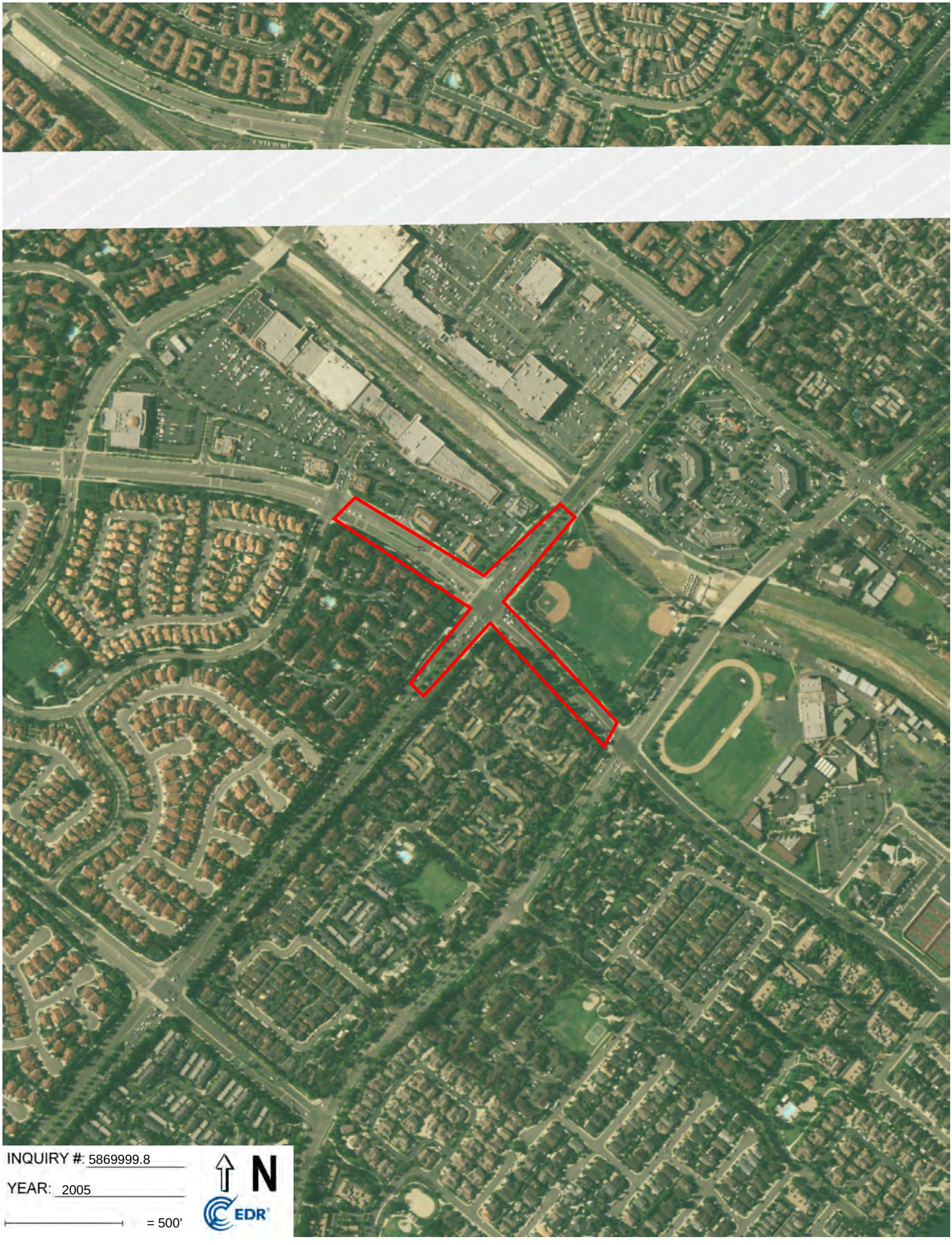
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 5869999.8
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 5869999.8
YEAR: 2009
= 500'
N
EDR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EDR

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YEAR: 1994
= 500'
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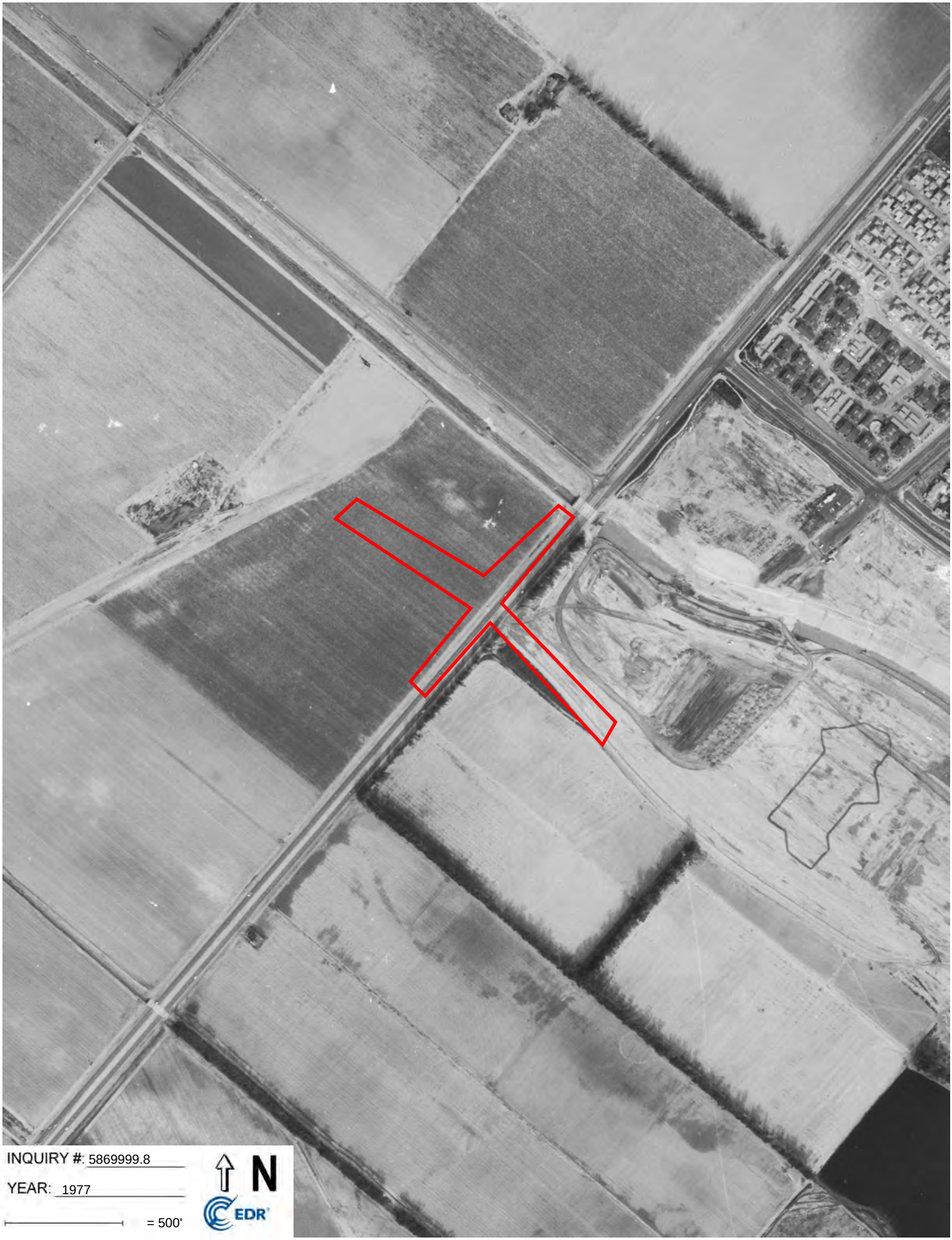
EDR

INQUIRY #: 5869999.8
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 5869999.8
YEAR: 1985
= 500'
N
EDR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YEAR: 1977
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EDR

INQUIRY #: 5869999.8
YEAR: 1972
= 500'
N
EDR

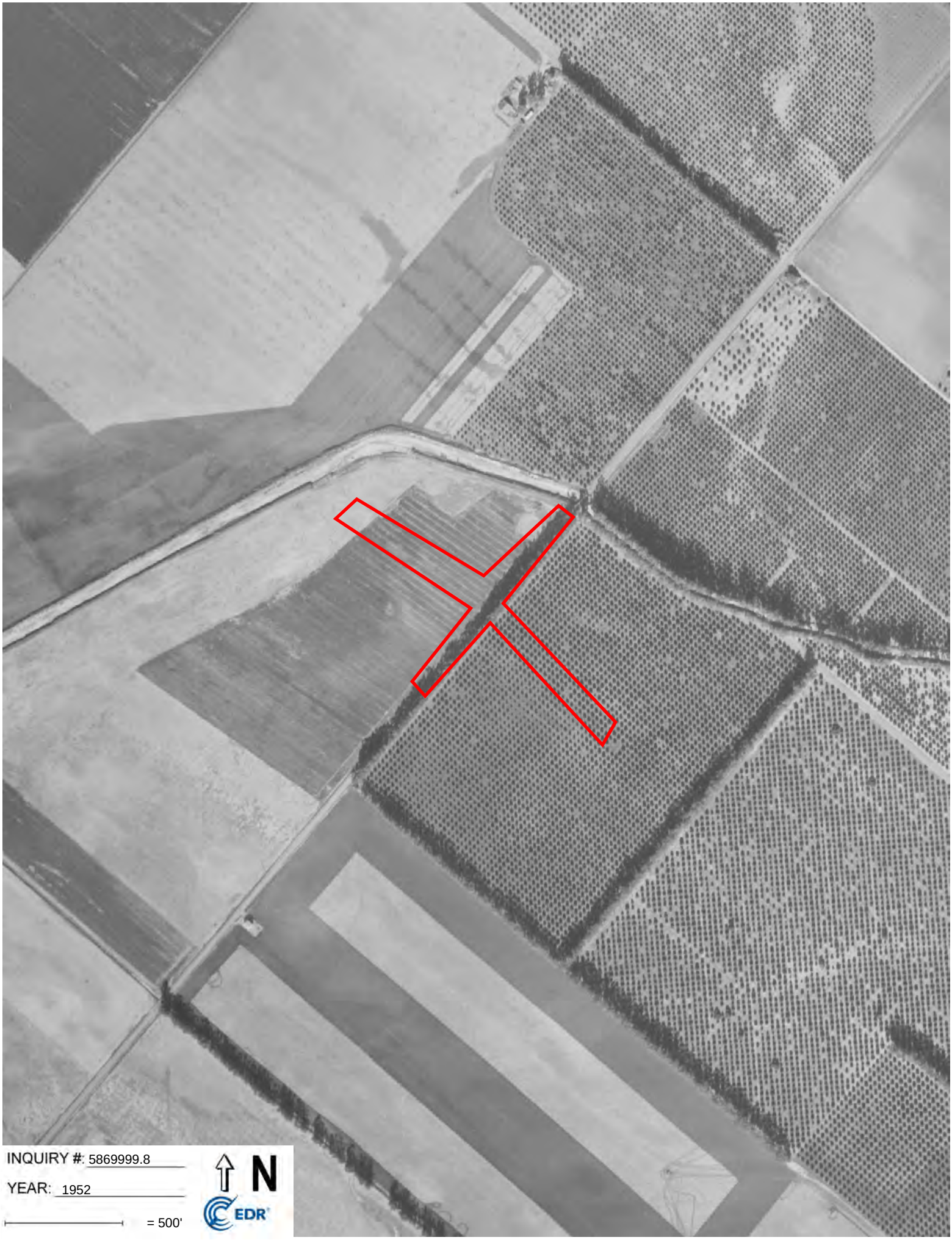
INQUIRY #: 5869999.8

YEAR: 1963

= 500'

N

EDR



INQUIRY #: 5869999.8

YEAR: 1952

= 500'

N

EDR

INQUIRY #: 5869999.8
YEAR: 1946
= 500'
N
EDR

INQUIRY #: 5869999.8

YEAR: 1938

= 500'

N

EDR

Culver Drive and Alton Parkway

Culver Drive and Alton Parkway

Irvine, CA 92604

Inquiry Number: 5869999.4

November 14, 2019

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

11/14/19

Site Name:	Client Name:
Culver Drive and Alton Parkwa	Stantec
Culver Drive and Alton Parkwa	290 Conejo Ridge Avenue
Irvine, CA 92604	Thousand Oaks, CA 91361
EDR Inquiry # 5869999.4	Contact: Emily Medler

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: Culver Drive and Alton Parkwa

Coordinates:

Latitude:	33.680868 33° 40' 51" North
Longitude:	-117.811479 -117° 48' 41" West
UTM Zone:	Zone 11 North
UTM X Meters:	424781.62
UTM Y Meters:	3727067.58
Elevation:	72.00' above sea level

Maps Provided:

2012	1932
1981	1902
1972	1901
1965	1896
1950	
1948	
1942	
1935	

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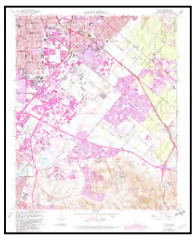
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Tustin
2012
7.5-minute, 24000

1981 Source Sheets

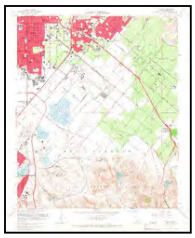


Tustin
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets

Tustin
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1965 Source Sheets



Tustin
1965
7.5-minute, 24000
Aerial Photo Revised 1963

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1950 Source Sheets

Tustin
1950
7.5-minute, 24000
Aerial Photo Revised 1946

1948 Source Sheets

Tustin
1948
7.5-minute, 24000
Aerial Photo Revised 1946

1942 Source Sheets

SANTA ANA
1942
15-minute, 50000

1935 Source Sheets

Tustin
1935
7.5-minute, 31680

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1932 Source Sheets

Tustin
1932
7.5-minute, 31680

1902 Source Sheets

Corona
1902
30-minute, 125000

1901 Source Sheets

Santa Ana
1901
15-minute, 62500

1896 Source Sheets

Santa Ana
1896
15-minute, 62500

Historical Topo Map

2012

This report includes information from the following map sheet(s).

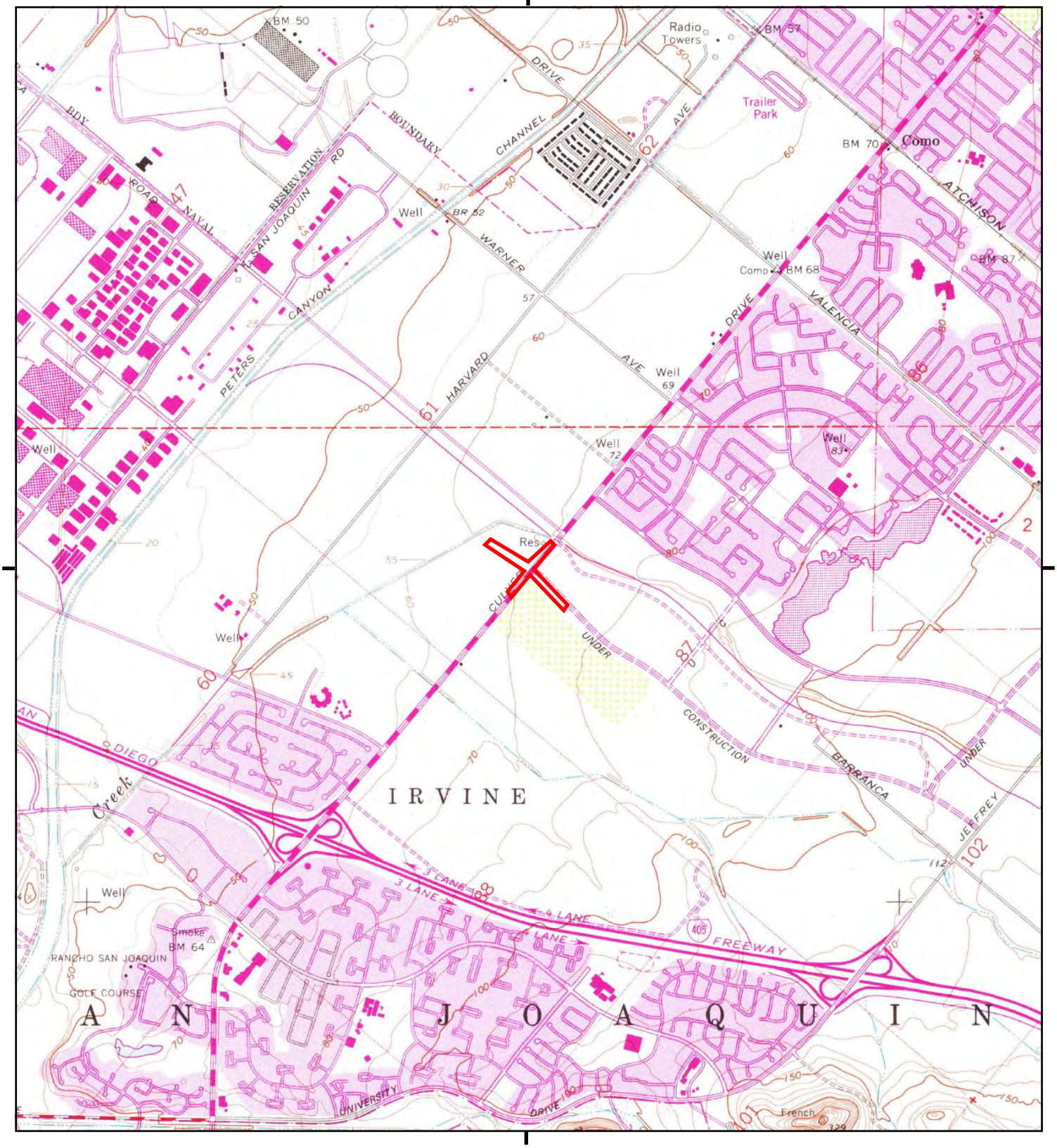
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tustin, 2012, 7.5-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

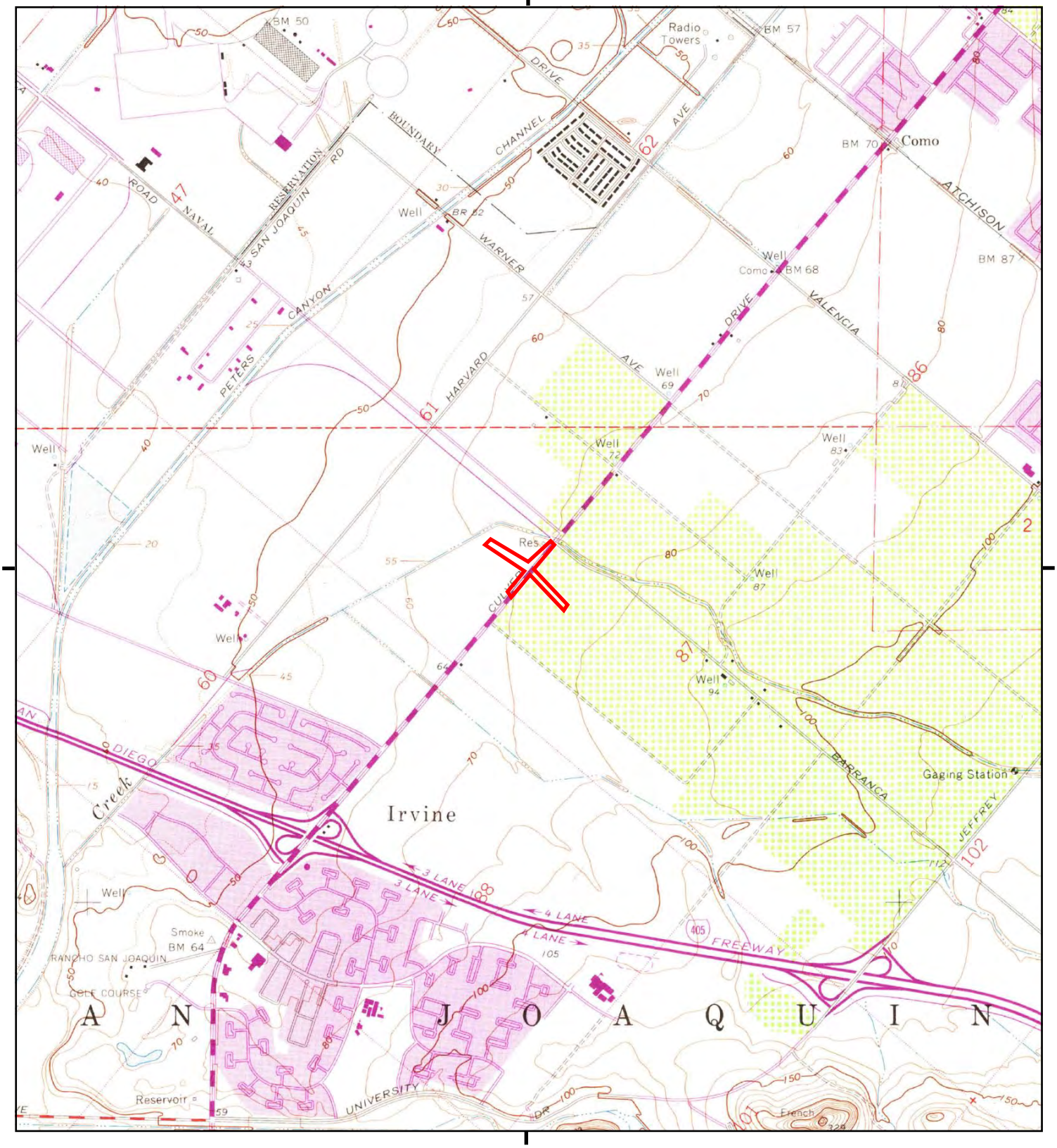
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tustin, 1981, 7.5-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

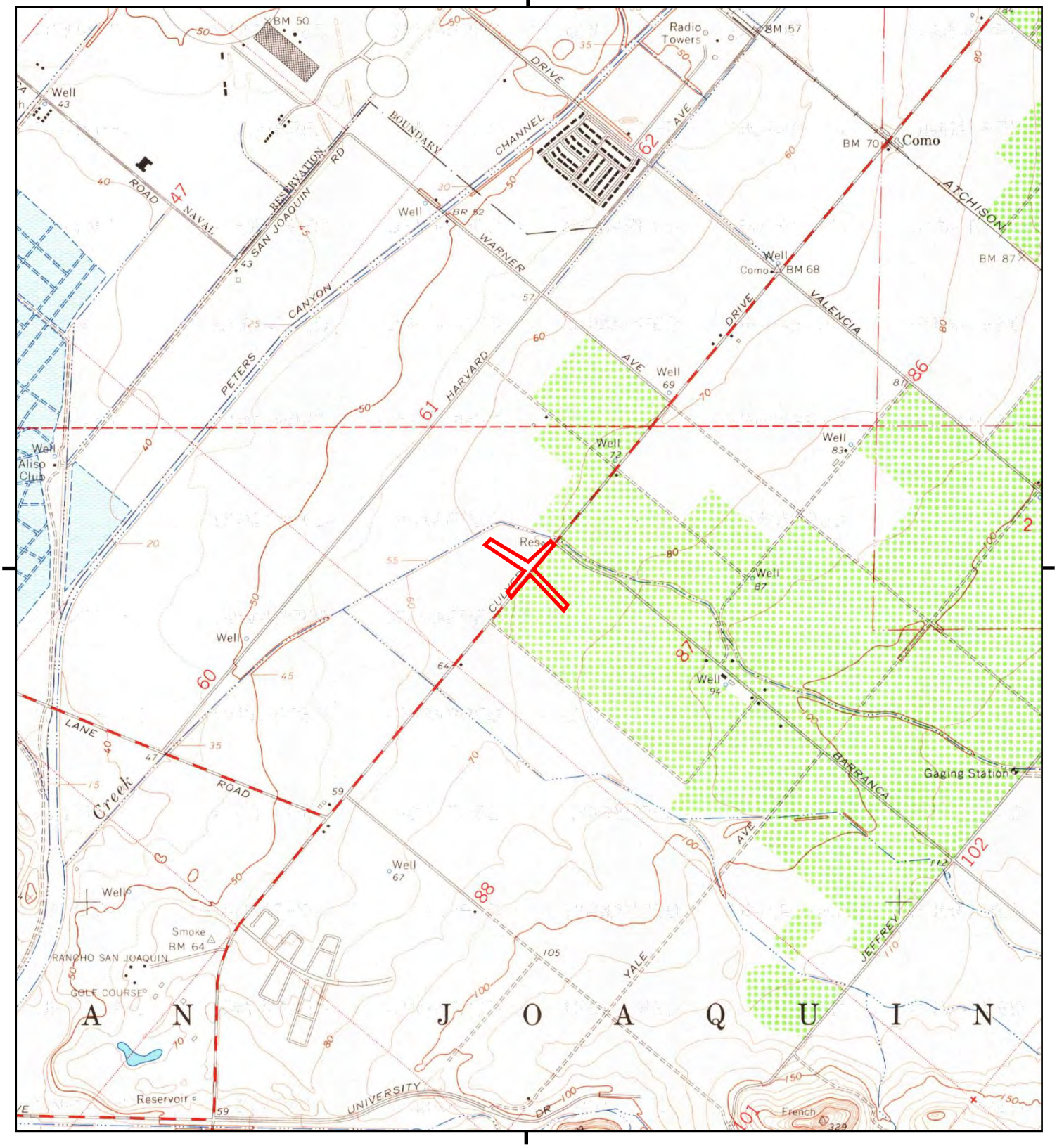
TP, Tustin, 1972, 7.5-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N

Historical Topo Map

1965



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

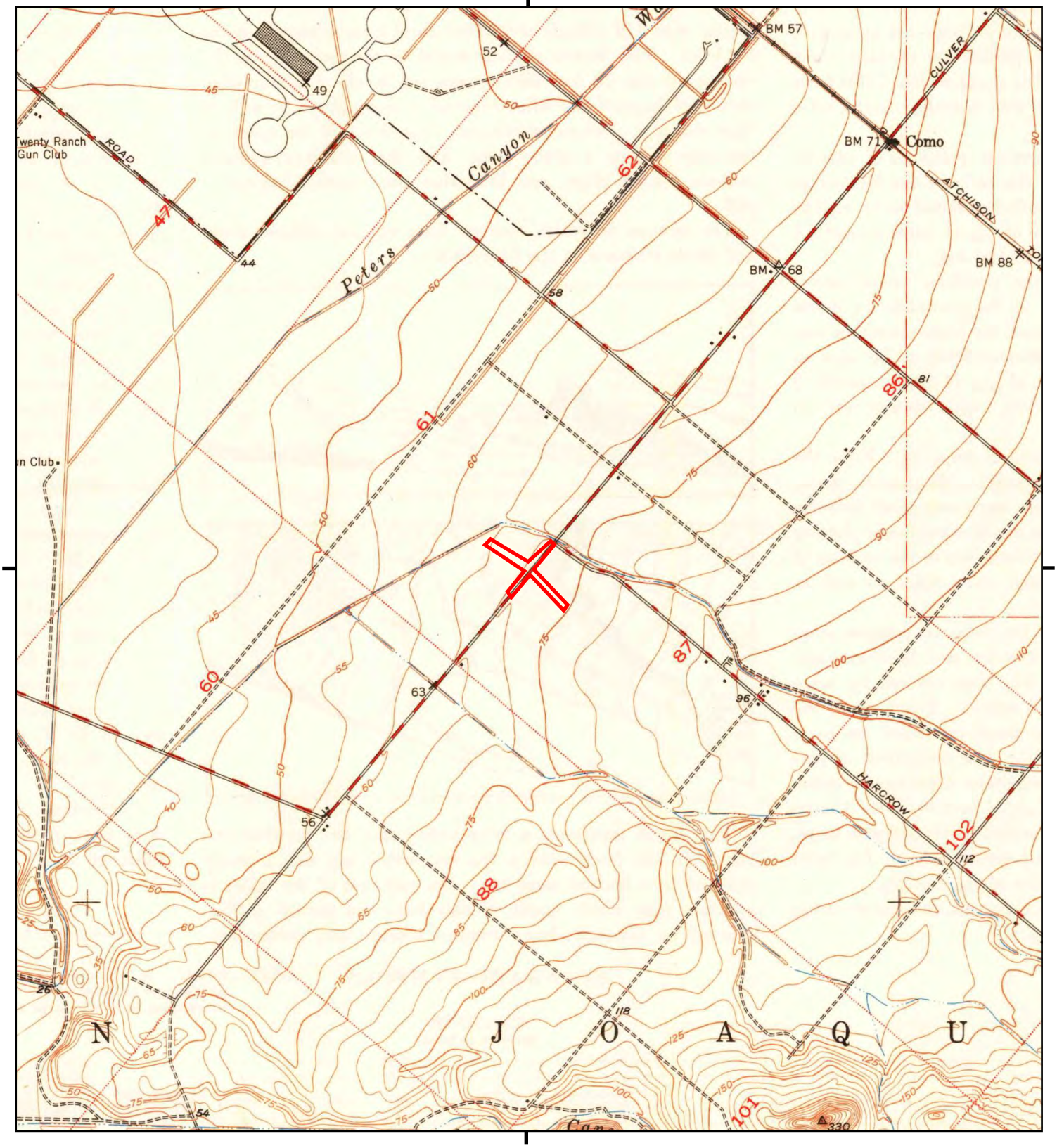
TP, Tustin, 1965, 7.5-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N

Historical Topo Map

1950



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

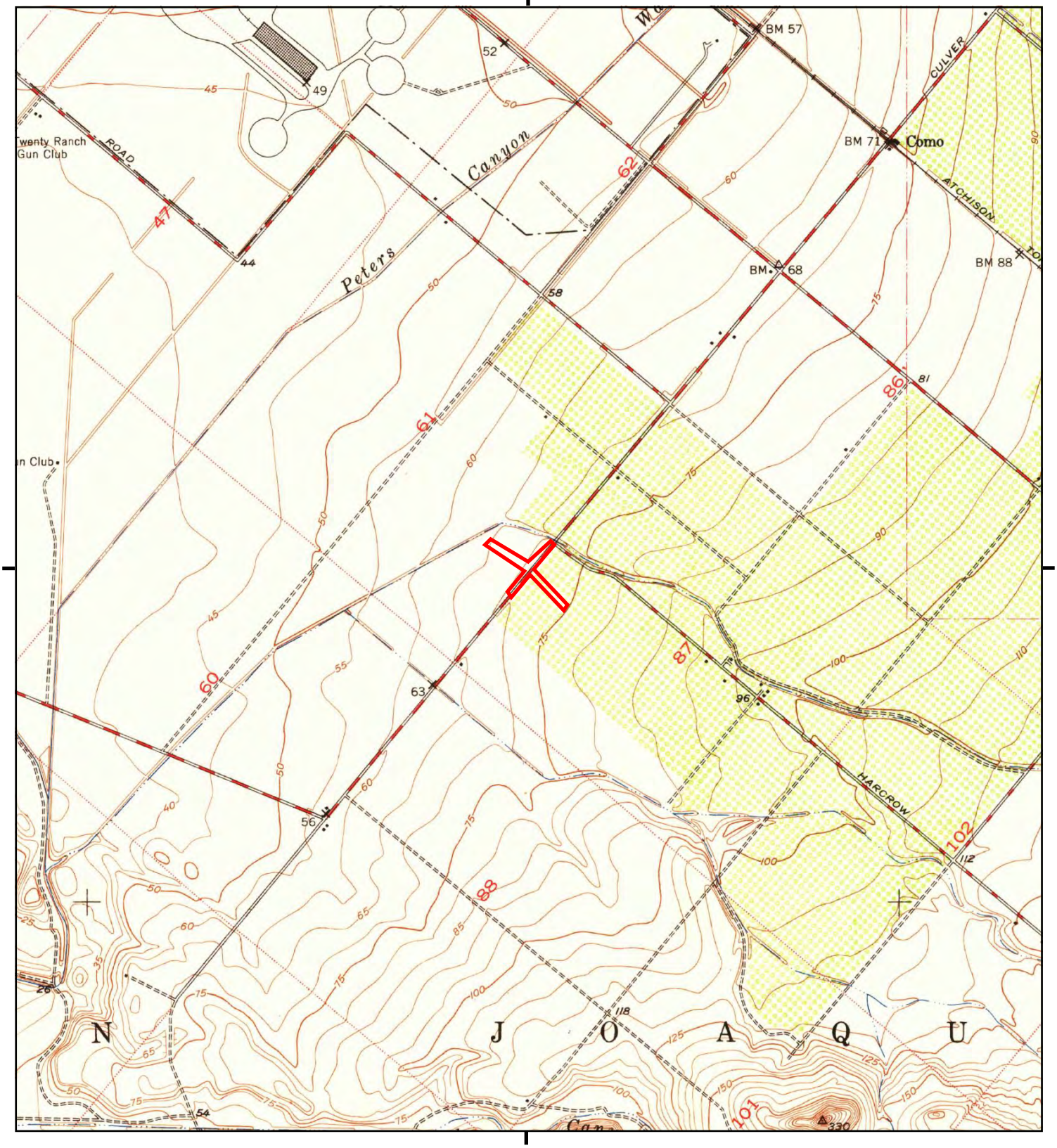
TP, Tustin, 1950, 7.5-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N

Historical Topo Map

1948



This report includes information from the following map sheet(s).

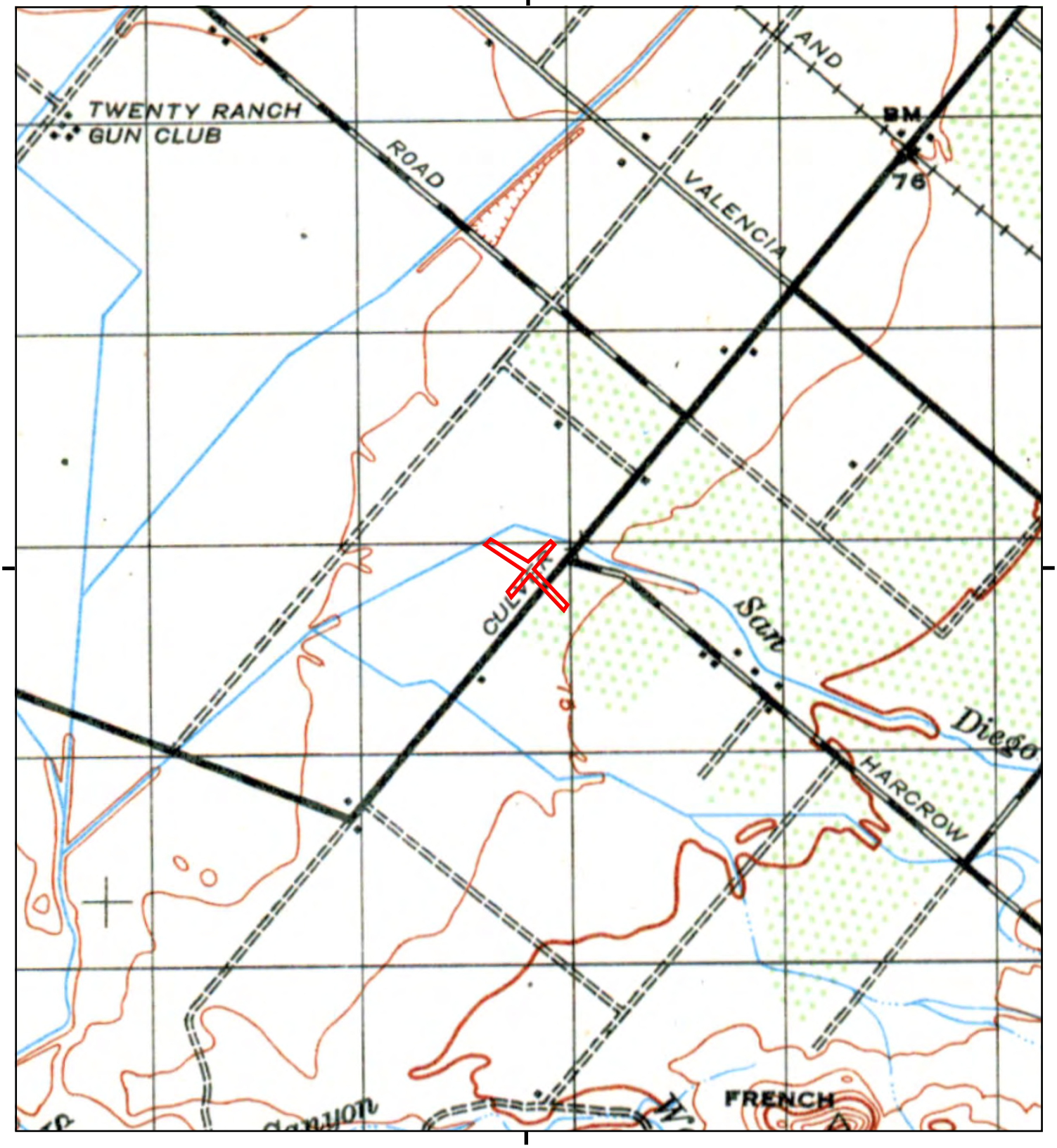
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tustin, 1948, 7.5-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

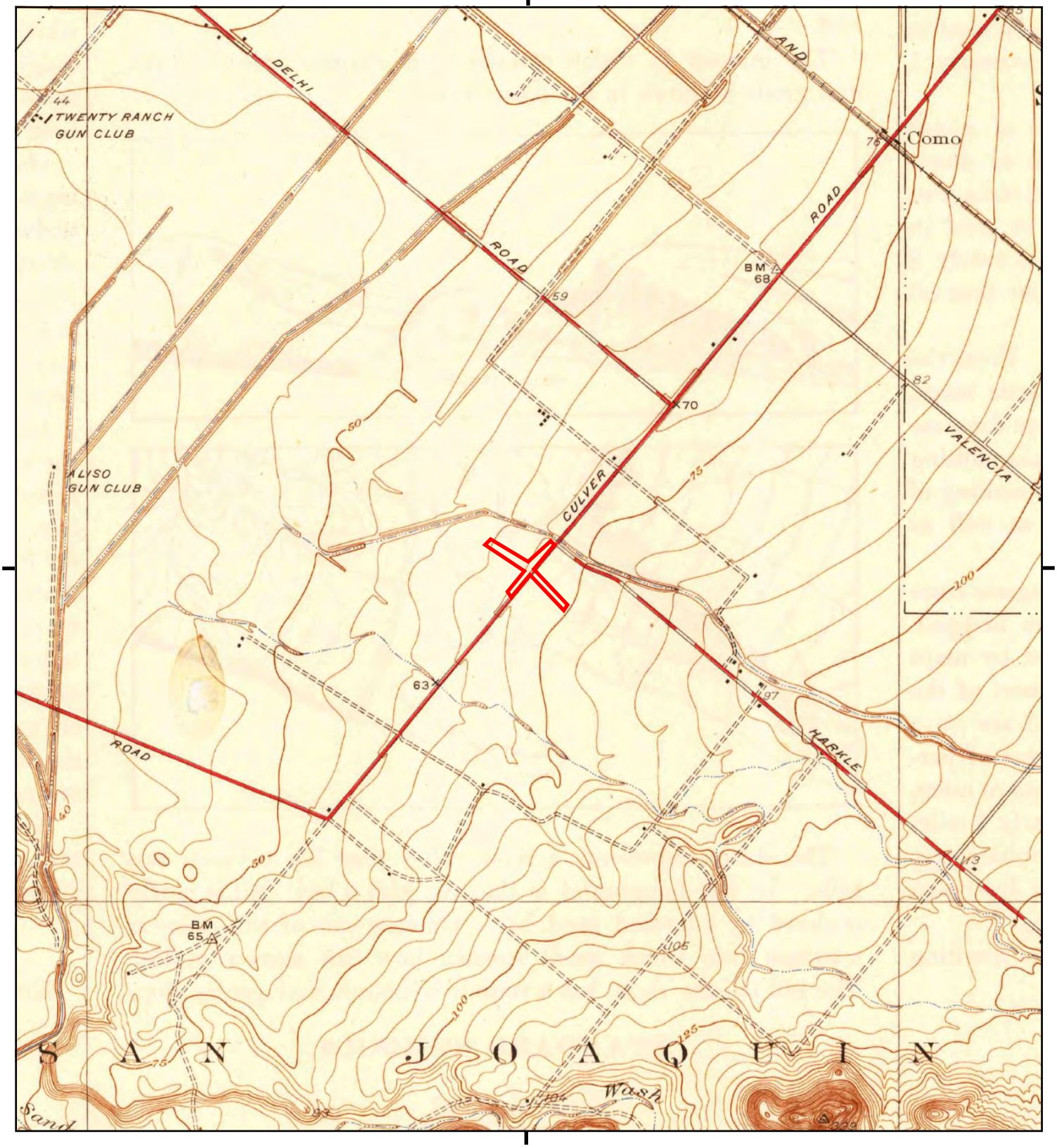
TP, SANTA ANA, 1942, 15-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N

Historical Topo Map

1935



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

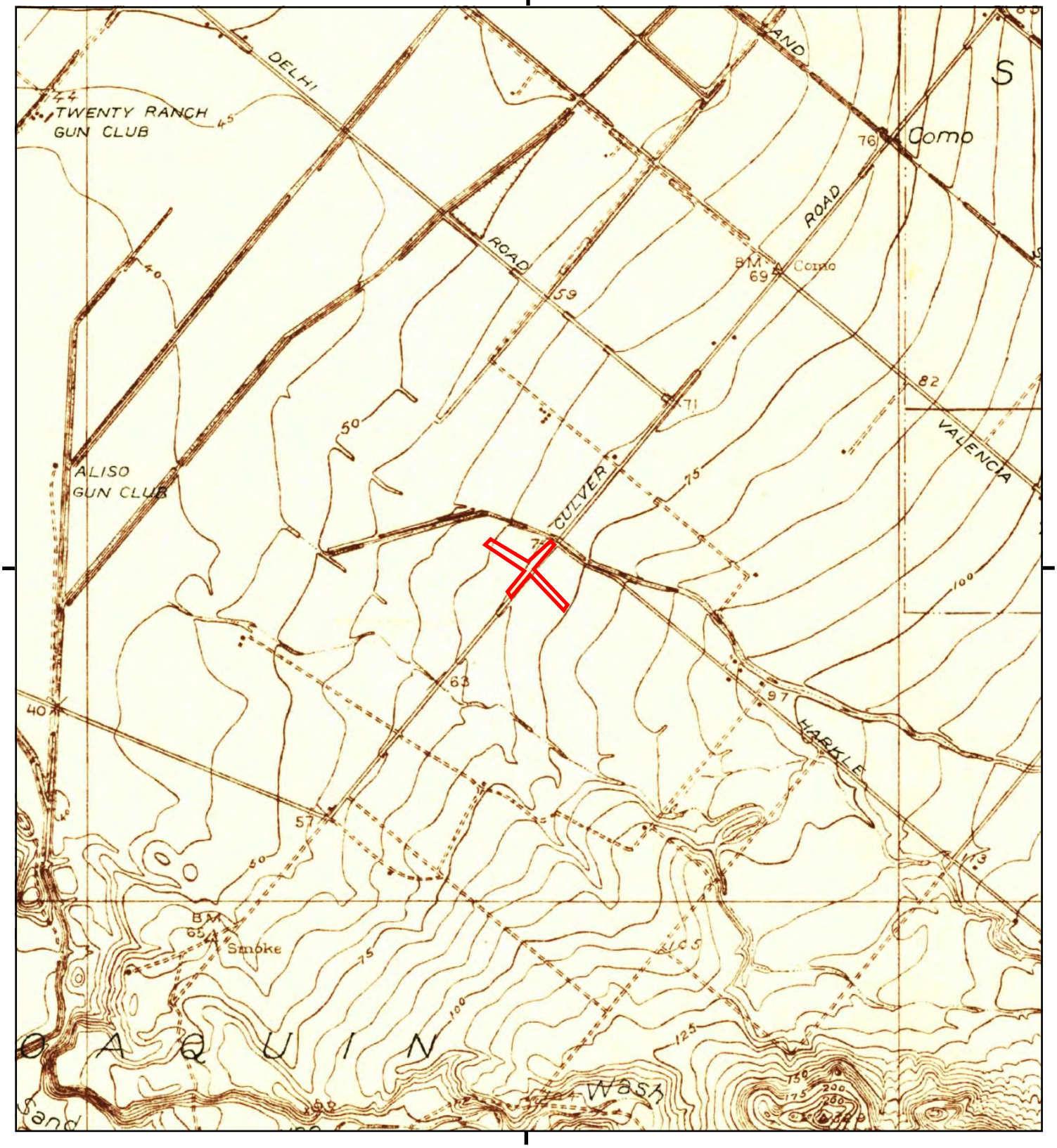
TP, Tustin, 1935, 7.5-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N

Historical Topo Map

1932



This report includes information from the following map sheet(s).

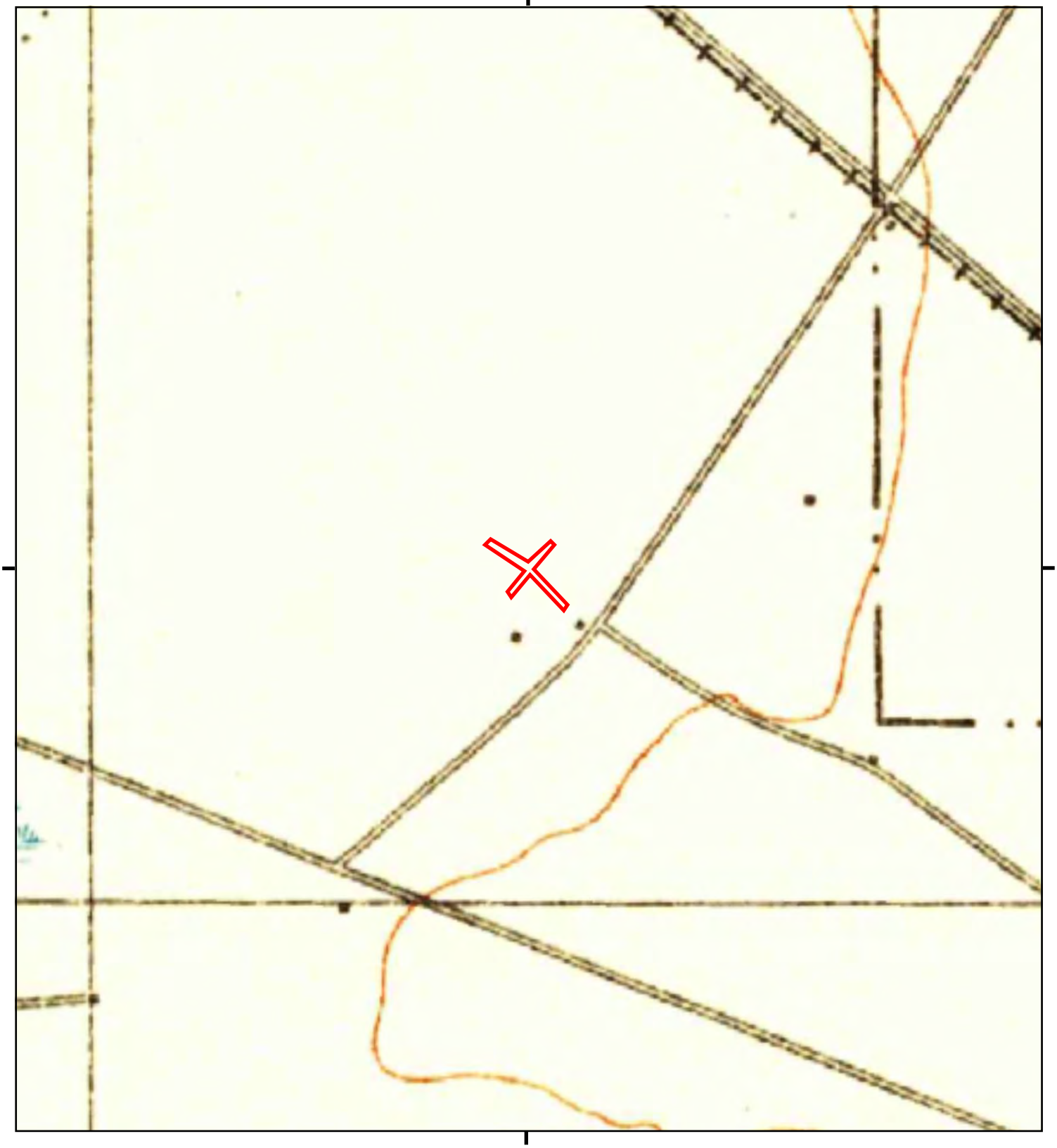
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Tustin, 1932, 7.5-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

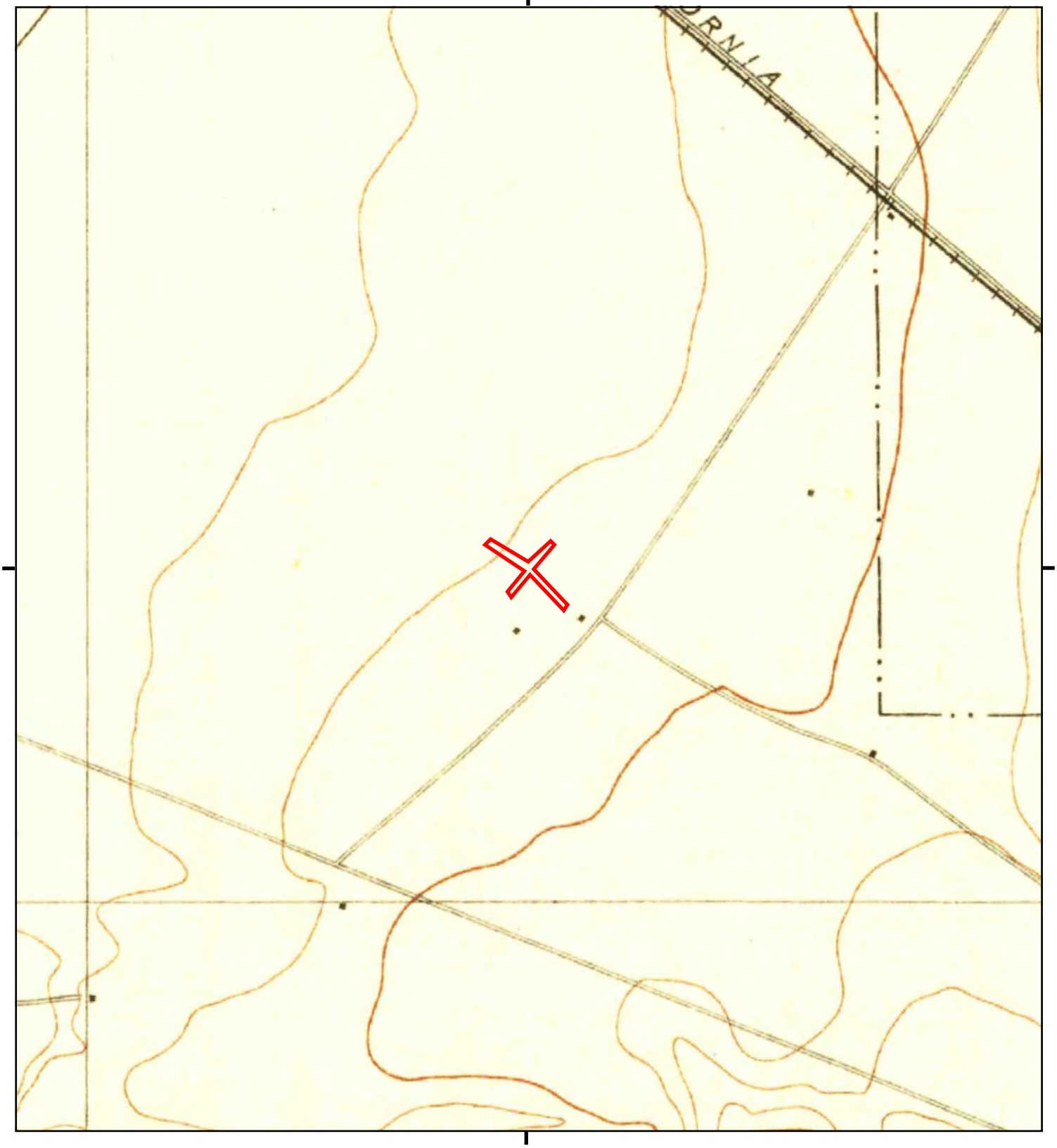
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Corona, 1902, 30-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

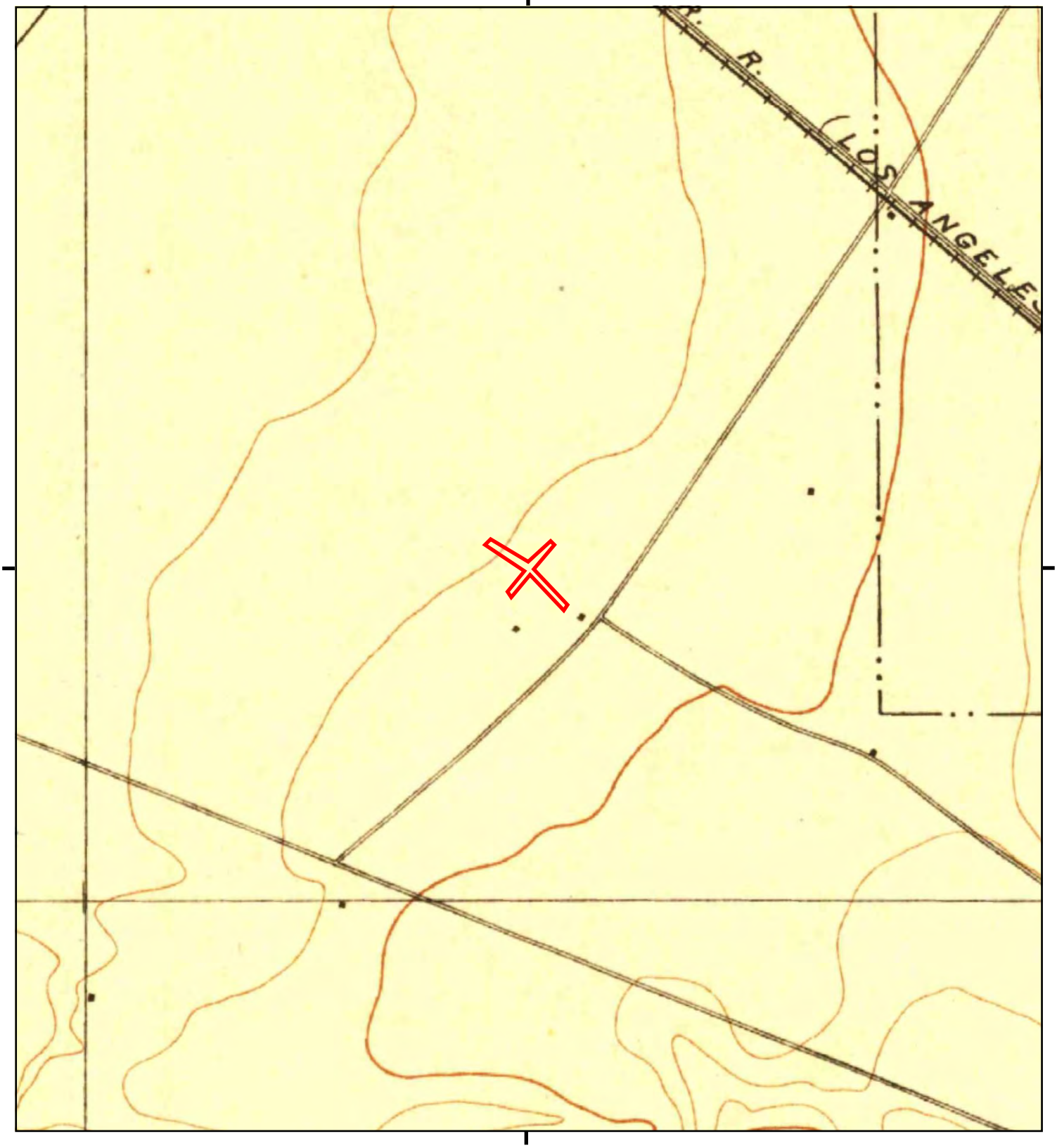
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Ana, 1901, 15-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Ana, 1896, 15-minute

SITE NAME: Culver Drive and Alton Parkway
ADDRESS: Culver Drive and Alton Parkway
Irvine, CA 92604
CLIENT: Stantec

N

Culver Drive and Alton Parkway

Culver Drive and Alton Parkway

Irvine, CA 92604

Inquiry Number: 5869999.3

November 14, 2019

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

11/14/19

Site Name:

Culver Drive and Alton Parkway
Culver Drive and Alton Parkway
Irvine, CA 92604
EDR Inquiry # 5869999.3

Client Name:

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
Contact: Emily Medler

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Stantec were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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Certified Sanborn Results:

Certification # EC90-4EE5-8708

PO # NA

Project Culver Drive and Alton Parkway

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: EC90-4EE5-8708

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Appendix C AGENCY RECORDS

WESTPARK CLEANERS (CERSID: 10541347)

Facility Information Accepted Jul 24, 2018

Submitted on 7/12/2018 7:28:02 AM by *mohammed khan* of WESTPARK CLEANERS (IRVINE, CA)
Submittal was ***Accepted*** on 7/24/2018 8:37:51 AM by Summer Hansen-Rooks
Comments by regulator: See most recent submittal

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory Accepted Jul 24, 2018

Submitted on 7/12/2018 7:28:02 AM by *mohammed khan* of WESTPARK CLEANERS (IRVINE, CA)
Submittal was ***Accepted*** on 7/24/2018 8:37:30 AM by Summer Hansen-Rooks
Comments by regulator: See most recent submittal

- Hazardous Material Inventory (2)
- Site Map (Official Use Only)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 293KB)

Emergency Response and Training Plans Accepted Jul 24, 2018

Submitted on 7/12/2018 7:28:02 AM by *mohammed khan* of WESTPARK CLEANERS (IRVINE, CA)
Submittal was ***Accepted*** on 7/24/2018 8:24:22 AM by Summer Hansen-Rooks

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 2013KB)
- Employee Training Plan
  - Provided In Submital Element: Emergency Response and Training Plans

California Environmental Reporting System (CERS) — Business Activities

Site Identification

WESTPARK CLEANERS
3881 ALTON PKWY STE D
IRVINE, CA 92606
County
Orange

CERS ID
10541347
EPA ID Number
CAD982461527

Submittal Status

Submitted on 7/12/2018 by *mohammed khan* of WESTPARK CLEANERS (IRVINE, CA)
Submittal was ***Accepted***; Processed on 7/24/2018 by *Summer Hansen-Rooks* for Orange County Environmental Health
Comments by regulator: See most recent submittal

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, 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 is regulated under more restrictive inventory local reporting requirements (shown below if present); 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**

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	**No**

Hazardous Waste

Is your facility a Hazardous Waste Generator?	**Yes**
Does your facility treat hazardous waste on-site?	**No**
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	**No**
Does your facility consolidate hazardous waste generated at a remote site?	**No**
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	**No**
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	**No**
Is your facility a Household Hazardous Waste (HHW) Collection site?	**No**

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	**No**
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	**No**
Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	**No**

Additional Information

No additional comments provided.

Facility/Site

WESTPARK CLEANERS
3881 ALTON PKWY STE D
IRVINE, CA 92606

CERS ID
10541347

Submittal Status

Submitted on 7/12/2018 by *mohammed khan* of WESTPARK CLEANERS (IRVINE, CA)
Submittal was ***Accepted***; Processed on 7/24/2018 by *Summer Hansen-Rooks* for Orange County Environmental Health
Comments by regulator: See most recent submittal

Identification

WESTPARK CLEANERS

Operator Phone	Business Phone	Business Fax	Beginning Date	Ending Date
(213) 344-6000	(949) 252-0501		7/12/2018	7/11/2019

Dun & Bradstreet	SIC Code	Primary NAICS

Facility/Site Mailing Address

3881 ALTON PKWY STE D
IRVINE, CA 92606

Primary Emergency Contact

Mohammed Khan
Title
PRESIDENT

Business Phone	24-Hour Phone	Pager Number
(949) 252-0501	(213) 344-6000	

Owner

Mohammed Khan
(213) 344-6000
3881 ALTON PKWY STE D
IRVINE, CA 92606

Secondary Emergency Contact

Title

Business Phone	24-Hour Phone	Pager Number

Billing Contact

Mohammed Khan
(213) 344-6000 kapoor.shawn@gmail.com
3881 ALTON PKWY STE D
IRVINE, CA 92606

Environmental Contact

Mohammed Khan
(213) 344-6000 shehzadkhan@hotmail.com
3881 ALTON PKWY STE D
IRVINE, CA 92606

Name of Signer	Signer Title	Document Preparer
mohammed khan		mohammed khan

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Irvine Company
Phone

Mailing Address

,

Assessor Parcel Number (APN)

Number of Employees

Facility ID
FA0028870

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **WESTPARK CLEANERS**
Facility Name **WESTPARK CLEANERS**
3881 ALTON PKWY STE D, IRVINE 92606

Chemical Location **Hazardous Waste Storage Area**

CERS ID **10541347**
Facility ID **FA0028870**
Status **Submitted** on 7/12/2018 7:28 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Hydrocarbon waste/sludge	**Gallons**	**55**	**55**	30	55	- Physical Flammable - Health Hazard Not Otherwise Classified				
Flammable Liquid, Class I-C, Toxic	CAS No	State: Liquid Type: Waste	Storage Container: Steel Drum Days on Site: 365		Pressue: Ambient Temperature: Ambient	Waste Code					

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **WESTPARK CLEANERS**
Facility Name **WESTPARK CLEANERS**
3881 ALTON PKWY STE D, IRVINE 92606

Chemical Location **Inside Machines**

CERS ID **10541347**
Facility ID **FA0028870**
Status **Submitted** on 7/12/2018 7:28 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Petroleum Hydrocarbon Solvent	**Gallons**	**200**	**100**	100		- Physical Flammable - Health Hazard Not Otherwise Classified				
Flammable Liquid, Class I-C, Toxic	CAS No	State: Liquid Type: Mixture	Storage Container: Other Days on Site: 365		Pressue: Ambient Temperature: Ambient	Waste Code					

CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)

CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN

Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN

A. FACILITY IDENTIFICATION AND OPERATIONS OVERVIEW

FACILITY ID #	1. CERS ID	A1. DATE OF PLAN PREPARATION/REVISION A2.
185281 FA0028870	10541347	

BUSINESS NAME *(Same as Facility Name or DBA - Doing Business As)* 3.
MSK ALLIANCE INC. DBA Westpark Cleaners

BUSINESS SITE ADDRESS 103.
3881 Alton pkwy suite D

BUSINESS SITE CITY 104.		ZIP CODE 105.
irvine	CA	92606

TYPE OF BUSINESS (e.g., Painting Contractor) A3.	INCIDENTAL OPERATIONS (e.g., Fleet Maintenance) A4.
Drycleaners & Laundry	N/A

THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES INVOLVING: (Check all that apply) A5.

☒ 1. HAZARDOUS MATERIALS; ☒ 2. HAZARDOUS WASTES

B. INTERNAL RESPONSE

INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR VIA: (Check all that apply) B1.

☒ 1. CALLING PUBLIC EMERGENCY RESPONDERS (i.e., 9-1-1)
☒ 2. CALLING HAZARDOUS WASTE CONTRACTOR
☐ 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM

C. EMERGENCY COMMUNICATIONS, PHONE NUMBERS AND NOTIFICATIONS

Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator (or his/her designee when the Emergency Coordinator is on call) shall:

1. Activate internal facility alarms or communications systems, where applicable, to notify all facility personnel.
2. Notify appropriate local authorities (i.e., call 9-1-1).
3. Notify the California Emergency Management Agency at (800) 852-7550.

Before facility operations are resumed in areas of the facility affected by the incident, the emergency coordinator shall notify the California Department of Toxic Substances Control (DTSC), the local Unified Program Agency (UPA), and the local fire department's hazardous materials program that the facility is in compliance with requirements to:

1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an explosion, fire, or release at the facility; and
2. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

INTERNAL FACILITY EMERGENCY COMMUNICATIONS OR ALARM NOTIFICATION WILL OCCUR VIA: (Check all that apply) C1.

☐ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☐ 5. ALARM SYSTEM; ☐ 6. PORTABLE RADIO

NOTIFICATIONS TO NEIGHBORING FACILITIES THAT MAY BE AFFECTED BY AN OFF-SITE RELEASE WILL OCCUR BY: (Check all that apply) C2.

☐ 1. VERBAL WARNINGS; ☐ 2. PUBLIC ADDRESS OR INTERCOM SYSTEM; ☒ 3. TELEPHONE;
☐ 4. PAGERS; ☐ 5. ALARM SYSTEM; ☐ 6. PORTABLE RADIO

EMERGENCY RESPONSE PHONE NUMBERS:

AMBULANCE, FIRE, POLICE AND CHP	9-1-1	
CALIFORNIA EMERGENCY MANAGEMENT AGENCY (CAL/EMA)	(800) 852-7550	
NATIONAL RESPONSE CENTER (NRC)	(800) 424-8802	
POISON CONTROL CENTER	(800) 222-1222	
LOCAL UNIFIED PROGRAM AGENCY (UPA/CUPA)	(323) 890-4317	C3.
OTHER (Specify): C4.		C5.
NEAREST MEDICAL FACILITY / HOSPITAL NAME: Hoag Hospital Irvine C6.	(949) 764-4624	C7.
AGENCY NOTIFICATION PHONE NUMBERS: CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC)	(916) 255-3545	
REGIONAL WATER QUALITY CONTROL BOARD		C8.
U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA)	(800) 300-2193	
CALIFORNIA DEPT OF FISH AND GAME (DFG)	(916) 358-2900	
U.S. COAST GUARD	(202) 267-2180	
CAL/OSHA	(916) 263-2800	
STATE FIRE MARSHAL	(916) 445-8200	
OTHER (Specify): C9.		C10.
OTHER (Specify): C11.		C12.

G. EMERGENCY EQUIPMENT

Check all boxes that apply to list emergency response equipment available at the facility and identify the location(s) where the equipment is kept and the equipment's capability, if applicable. [e.g., ☒ CHEMICAL PROTECTIVE GLOVES | Spill response kit | One time use, Oil & solvent resistant only.]

TYPE	EQUIPMENT AVAILABLE G1.	LOCATION	CAPABILITY *(If applicable)*
Safety and First Aid	1. ☐ CHEMICAL PROTECTIVE SUITS, APRONS, OR VESTS	G2.	N/A G3.
	2. ☐ CHEMICAL PROTECTIVE GLOVES	G4.	N/A G5.
	3. ☐ CHEMICAL PROTECTIVE BOOTS	G6.	N/A G7.
	4. ☐ SAFETY GLASSES / GOGGLES / SHIELDS	G8.	N/A G9.
	5. ☐ HARD HATS	G10.	N/A G11.
	6. ☐ CARTRIDGE RESPIRATORS	G12.	N/A G13.
	7. ☐ SELF-CONTAINED BREATHING APPARATUS (SCBA)	G14.	N/A G15.
	8. ☐ FIRST AID KITS / STATIONS	G16.	N/A G17.
	9. ☐ PLUMBED EYEWASH FOUNTAIN / SHOWER	G18.	N/A G19.
	10. ☐ PORTABLE EYEWASH KITS	G20.	G21.
	11. ☐ OTHER	G22.	G23.
	12. ☐ OTHER	G24.	G25.
Fire Fighting	13. ☒ PORTABLE FIRE EXTINGUISHERS	G26.	G27.
	14. ☒ FIXED FIRE SYSTEMS / SPRINKLERS / FIRE HOSES	G28.	G29.
	15. ☐ FIRE ALARM BOXES OR STATIONS	G30.	G31.
	16. ☐ OTHER	G32.	G33.
Spill Control and Clean-Up	17. ☐ ALL-IN-ONE SPILL KIT	G34.	G35.
	18. ☒ ABSORBENT MATERIAL	G36.	G37.
	19. ☒ CONTAINER FOR USED ABSORBENT	G38.	G39.
	20. ☐ BERMING / DIKING EQUIPMENT	G40.	G41.
	21. ☒ BROOM	G42.	G43.
	22. ☐ SHOVEL	G44.	G45.
	23. ☒ SHOP VAC	G46.	G47.
	24. ☐ EXHAUST HOOD	G48.	G49.
	25. ☐ EMERGENCY SUMP / HOLDING TANK	G50.	G51.
	26. ☐ CHEMICAL NEUTRALIZERS	G52.	G53.
	27. ☐ GAS CYLINDER LEAK REPAIR KIT	G54.	G55.
	28. ☐ SPILL OVERPACK DRUMS	G56.	G57.
	29. ☐ OTHER	G58.	G59.
Communi-cations and Alarm Systems	30. ☒ TELEPHONES (Includes cellular)	G60.	G61.
	31. ☐ INTERCOM / PA SYSTEM	G62.	G63.
	32. ☐ PORTABLE RADIOS	G64.	G65.
	33. ☐ AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT	G66.	G67.
Other	34. ☐ OTHER	G68.	G69.
	35. ☐ OTHER	G70.	G71.

H. EARTHQUAKE VULNERABILITY

Identify areas of the facility that are vulnerable to hazardous materials releases / spills due to earthquake-related motion. These areas require immediate isolation and inspection.

VULNERABLE AREAS: (Check all that apply)	H1.	LOCATIONS (e.g., shop, outdoor shed, forensic lab)	
☐ 1. HAZARDOUS MATERIALS / WASTE STORAGE AREA			H2.
☐ 2. PROCESS LINES / PIPING			H3.
☐ 3. LABORATORY			H4.
☐ 4. WASTE TREATMENT AREA			H5.

Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. These systems require immediate isolation and inspection.

VULNERABLE SYSTEMS: (Check all that apply)	H6.	LOCATIONS	
☐ 1. SHELVES, CABINETS AND RACKS			H7.
☐ 2. TANKS (EMERGENCY SHUTOFF)			H8.
☐ 3. PORTABLE GAS CYLINDERS			H9.
☐ 4. EMERGENCY SHUTOFF AND/OR UTILITY VALVES			H10.
☒ 5. SPRINKLER SYSTEMS		ISOLATION VALVES IN LANDLORD FACILITY	H11.
☐ 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane dispensing tank)			H12.

I. EMPLOYEE TRAINING

Explanation of Requirement: Employee training is required for all employees handling hazardous materials and hazardous wastes in day-to-day or clean-up operations including volunteers and/or contractors. Training must be:

- Provided within 6 months for new hires;
- Amended as necessary prior to change in process or work assignment;
- Given upon modification to the Emergency Response / Contingency Plan, and updated/refreshed annually for all employees.

Required content includes all of the following:

- Material Safety Data Sheets;
- Hazard communication related to health and safety;
- Methods for safe handling of hazardous substances;
- Fire hazards of materials / processes;
- Conditions likely to worsen emergencies;
- Coordination of emergency response;
- Notification procedures;
- Applicable laws and regulations;
- Communication and alarm systems;
- Personal protective equipment;
- Use of emergency response equipment (e.g. Fire extinguishers, respirators, etc.);
- Decontamination procedures;
- Evacuation procedures;
- Control and containment procedures;
- UST monitoring system equipment and procedures (if applicable).

INDICATE HOW EMPLOYEE TRAINING PROGRAM IS ADMINISTERED (Check all that apply) I1.

☐ 1. FORMAL CLASSROOM; ☐ 2. VIDEOS; ☒ 3. SAFETY / TAILGATE MEETINGS;

☐ 4. STUDY GUIDES / MANUALS (Specify): _____ I2.

☐ 5. OTHER (Specify): _____ I3.

☐ 6. NOT APPLICABLE BECAUSE FACILITY HAS NO EMPLOYEES

Large Quantity Generator (LQG) Training Records: Large quantity hazardous waste generators (i.e., who generate more than 270 gallons/1,000 kilograms of hazardous waste per month) must retain written documentation of employee hazardous waste management training sessions which includes:

- A written outline/agenda of the type and amount of both introductory and continuing training that will be given to persons filling each job position having responsibility for the management of hazardous waste (e.g., labeling, manifesting, compliance with accumulation time limits, etc.).
- The name, job title, and date of training for each hazardous waste management training session given to an employee filling such a job position; and
- A written job description for each of the above job positions that describes job duties and the skills, education, or other qualifications required of personnel assigned to the position.
- Current employee training records must be retained until closure of the facility.
- Former employee training records must be retained at least three years after termination of employment.

J. LIST OF ATTACHMENTS

(Check one of the following) J1.

☒ 1. NO ATTACHMENTS ARE REQUIRED; *or*

☐ 2. THE FOLLOWING DOCUMENTS ARE ATTACHED: J2.

K. SIGNATURE / CERTIFICATION

Certification: 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 familiar with the information submitted and believe the information is true, accurate, and complete, and that a copy is available on site.

SIGNATURE OF OWNER/OPERATOR	DATE SIGNED K1.
	7/3/2018
NAME OF SIGNER (print) K2.	TITLE OF SIGNER K3.
MOHAMMED SHEHZAD KHAN	PRESIDENT

D. EMERGENCY CONTAINMENT AND CLEANUP PROCEDURES

SPILL PREVENTION, CONTAINMENT, AND CLEANUP PROCEDURES: (Check all boxes that apply to indicate your procedures for containing spills, releases, fires or explosions; and. preventing and mitigating associated harm to persons, property, and the environment.)

D1.

- ☒ 1. MONITOR FOR LEAKS, RUPTURES, PRESSURE BUILD-UP, ETC.;
- ☒ 2. PROVIDE STRUCTURAL PHYSICAL BARRIERS (e.g., Portable spill containment walls);
- ☒ 3. PROVIDE ABSORBENT PHYSICAL BARRIERS (e.g., Pads, pigs, pillows);
- ☒ 4. COVER OR BLOCK FLOOR AND/ OR STORM DRAINS;
- ☐ 5. BUILT-IN BERM IN WORK / STORAGE AREA;
- ☒ 6. AUTOMATIC FIRE SUPPRESSION SYSTEM;
- ☒ 7. ELIMINATE SOURCES OF IGNITION FOR FLAMMABLE HAZARDS (e.g. Flammable liquids, Propane);
- ☒ 8. STOP PROCESSES AND/OR OPERATIONS;
- ☐ 9. AUTOMATIC / ELECTRONIC EQUIPMENT SHUT-OFF SYSTEM;
- ☒ 10. SHUT-OFF WATER, GAS, ELECTRICAL UTILITIES AS APPROPRIATE;
- ☒ 11. CALL 9-1-1 FOR PUBLIC EMERGENCY RESPONDER ASSISTANCE / MEDICAL AID;
- ☒ 12. NOTIFY AND EVACUATE PERSONS IN ALL THREATENED AREAS;
- ☒ 13. ACCOUNT FOR EVACUATED PERSONS IMMEDIATELY AFTER EVACUATION CALL;
- ☐ 14. PROVIDE PROTECTIVE EQUIPMENT FOR ON-SITE RESPONSE TEAM;
- ☒ 15. REMOVE OR ISOLATE CONTAINERS / AREA AS APPROPRIATE;
- ☒ 16. HIRE LICENSED HAZARDOUS WASTE CONTRACTOR;
- ☒ 17. USE ABSORBENT MATERIAL FOR SPILLS WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☒ 18. SUCTION USING SHOP VACUUM WITH SUBSEQUENT PROPER LABELING, STORAGE, AND HAZARDOUS WASTE DISPOSAL AS APPROPRIATE;
- ☒ 19. WASH / DECONTAMINATE EQUIPMENT W/ CONTAINMENT and DISPOSAL OF EFFLUENT / RINSATE AS HAZARDOUS WASTE;
- ☒ 20. PROVIDE SAFE TEMPORARY STORAGE OF EMERGENCY-GENERATED WASTES;
- ☐ 21. OTHER (Specify):

D2.

E. FACILITY EVACUATION

THE FOLLOWING ALARM SIGNAL(S) WILL BE USED TO BEGIN EVACUATION OF THE FACILITY (CHECK ALL THAT APPLY): E1.

- ☐ 1. BELLS;
- ☐ 2. HORNS/SIRENS;
- ☒ 3. VERBAL (I.E., SHOUTING);
- ☐ 4. OTHER (Specify):

E2.

THE FOLLOWING LOCATION(S) IS/ARE EVACUEE EMERGENCY ASSEMBLY AREA(S) (i.e., Front parking lot, specific street corner, etc.) E3.

FRONT PARKING

Note: The Emergency Coordinator must account for all on site employees and/or site visitors after evacuation.

☐ EVACUATION ROUTE MAP(S) POSTED AS REQUIRED E4.

Note: The map(s) must show primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas, and must be prominently posted throughout the facility in locations where it will be visible to employees and visitors.

F. ARRANGEMENTS FOR EMERGENCY SERVICES

Explanation of Requirement: Advance arrangements with local fire and police departments, hospitals, and/or emergency services contractors should be made as appropriate for your facility. You may determine that such arrangements are not necessary.

ADVANCE ARRANGEMENTS FOR LOCAL EMERGENCY SERVICES (Check one of the following) F1.

- ☒ 1. HAVE BEEN DETERMINED NOT NECESSARY; *or*
- ☐ 2. THE FOLLOWING ARRANGEMENTS HAVE BEEN MADE (Specify):

F2.

INSPECTION REPORT
County of Orange, Health Care Agency, Environmental Health
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
(714) 433-6000
ochealthinfo.com/eh

PR0026525

WESTPARK CLEANERS
3881 ALTON PKWY STE D
IRVINE, CA 92606

Record ID: FA0028870
Inspection Date: 02/04/2016
Reinspection Date:

Type of Facility: 5110-HAZARDOUS WASTE SPECIAL GENERATOR
Service: F04-**FOLLOW-UP INSPECTION - OFF-SITE**
J Alaniz
HAZARDOUS WASTE SPECIALIST I

Mailing Address:
SUA INC
3881 ALTON PKWY D
IRVINE, CA 92606

This agency has received the signed CRC dated 1/26/16.

Violation (I617) has been corrected and closed.

I declare that I have examined and received a copy of this inspection report.

Print Name and Title _____

Signature _____ Date _____

HW. Freed

ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
Hazardous Materials Management Section
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
Telephone: (714) 433-6000
FAX: (714)754-1768

Certificate of Return to Compliance

Violations Identified in the Inspection Report dated: 01/19/2016 Inspector: D. Freed

Facility Name: WESTPARK CLEANERS

Facility Address: 3881 ALTON PKWY STE D Account: PR0026525

City: IRVINE

Zip: 92606

Respondent's Name: 'SHAWN' SUBHASH C. KAPOOR

Respondent's Title: PRESIDENT

You must correct the violations listed on the attached Inspection Report within 30 days or as stipulated on the Inspection Report. Within five working days of achieving compliance, you must sign the statement certifying compliance and return it to this office at the above address. This Agency may reinspect this facility at any time.

I certify under penalty of law that:

1. I have corrected the violations from the Inspection Report as dated above.

2. I have personally examined any documentation attached to this certification to establish that the violations have been corrected, and have determined that all of the information provided is true, accurate and complete.

3. I am authorized to file this certification on behalf of the facility.

4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

DATE ALL VIOLATIONS WERE CORRECTED: 1-26-2016

Signature: Subhash C. Kapoor

Printed or Typed Name: SUBHASH C. KAPOOR

Title: PRESIDENT Date: 1-26-2016

INSPECTION REPORT
County of Orange, Health Care Agency, Environmental Health
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
(714) 433-6000
ochealthinfo.com/eh

PR0026525

WESTPARK CLEANERS
3881 ALTON PKWY STE D
IRVINE, CA 92606

Record ID: FA0028870
Inspection Date: 01/19/2016
Reinspection Date: 06/18/2016

Type of Facility: 5110-HAZARDOUS WASTE SPECIAL GENERATOR
Service: A01-**ROUTINE INSPECTION**
J Alaniz
HAZARDOUS WASTE SPECIALIST I

Mailing Address:
SUA INC
3881 ALTON PKWY D
IRVINE, CA 92606

THE ITEMS NOTED BELOW WERE OBSERVED DURING THE COURSE OF A SITE VISIT. ANY VIOLATIONS OBSERVED MUST BE CORRECTED.

I617 - All containers of hazardous waste were closed except when addiing or removing waste Failure to properly close hazardous waste containers when not in active use. 22 CCR 15 66265.173
The lid for the waste hydrocarbon was not secured. You must keep the lid ring around the lid and threaded unless you are adding waste.

Inspectors Jonathan Alaniz and Terry Carrier conducted the annual routine hazardous waste inspection on 1/19/16. Received consent from Shawn Kapoor to perform the inspection and take any necessary photos.

Walked throughout the facility. Observed hazardous waste storage areas. The waste container was properly labeled. The container lid was not securely fastened. A violation was issued for the lid.

The dumpster area was inspected and was found to be free of hazardous waste.

Waste manifests were on site and available for review. Mr. Kapoor verified that all employees were trained to handle a release and that the waste container is inspected on a weekly basis.

A copy of inspection report was emailed to Mr. Kapoor. A Certificate of Return to Compliance (CRC) was issued. Correct the above violations within 30 days and return the CRC.

I declare that I have examined and received a copy of this inspection report.
Print Name and Title 'SHAWN' SUBHASH C. KAPOOR
Signature Subhash C. Kapoor Date 1-26-2016

INSPECTION REPORT
County of Orange, Health Care Agency, Environmental Health
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
(714) 433-6000
ochealthinfo.com/eh

PR0026525

WESTPARK CLEANERS
3881 ALTON PKWY STE D
IRVINE, CA 92606

Record ID: FA0028870
Inspection Date: 01/19/2016
Reinspection Date: 06/18/2016

Type of Facility: 5110-HAZARDOUS WASTE SPECIAL GENERATOR
Service: A01-**ROUTINE INSPECTION**
J Alaniz
HAZARDOUS WASTE SPECIALIST I

Mailing Address:
SUA INC
3881 ALTON PKWY D
IRVINE, CA 92606

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I declare that I have examined and received a copy of this inspection report.

Print Name and Title _____

COPY MAILED TO OWNER AND/OR FACILITY OPERATOR

Signature _____ Date _____

INSPECTION REPORT

County of Orange, Health Care Agency, Environmental Health
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611
(714) 433-6000
ochealthinfo.com/eh

PR0026525

WESTPARK CLEANERS
3881 ALTON PKWY STE D
IRVINE, CA 92606

Record ID: FA0028870
Inspection Date: 10/02/2012
Reinspection Date:

Type of Facility: 5110-HAZARDOUS WASTE SPECIAL GENERATOR
Service: A01-**ROUTINE INSPECTION**

Mailing Address:
SUA INC
3881 ALTON PKWY D
IRVINE, CA 92606

Alvin Dong
HAZARDOUS WASTE SPECIALIST III
(714) 433-6221
7:00-9:00 a.m.
adong@ochca.com

COMMENTS

ZZZ9 - INSPECTOR COMMENTS

Inspected facility with Shawn Kaoor, waste container(s), dumpster area, perimeter, disposal receipt(s). Verified ownership

Please ensure all hazardous waste containers are marked: "HAZARDOUS WASTE", name and address of business, contents, physical state, hazardous property and initial accumulation date.
Please keep onsite all hazardous waste disposal receipts/manifests for three years.

Please ensure a copy of the uniform hazardous waste manifest is mailed to the state within 30 days of hazardous waste disposal. DTSC Generator Manifests Department of Toxic Substances Control
P.O. Box 400 Sacramento, CA 95812-0400
Further information may be obtained on the web: www.dtsc.ca.gov
Please ensure all universal wastes (fluorescent lamps, high intensity discharge lamps, batteries, etc.) are managed appropriately.

The most recent edition of CupaConnection is online: http://www.occupainfo.com/

copy mailed

I declare that I have examined and received a copy of this inspection report.

Print Name and Title _____

Signature _____ Date _____

INSPECTION REPORT
County of Orange, Health Care Agency, Environmental Health
1241 EAST DYER ROAD, SUITE 120 SANTA ANA, CA 92705-5611
(714) 433-6000

PR0026525

WESTPARK CLEANERS
3881 ALTON PKWY STE D
IRVINE, CA 92606

Record ID: FA0028870
Inspection Date: 09/16/2010
Reinspection Date:

Type of Facility: 5112-HAZARDOUS WASTE GENERATOR
11-25 EMPLOYEES
Service: A01-**ROUTINE INSPECTION**

Mailing Address:
SUA INC
3881 ALTON PKWY D
IRVINE, CA 92606

Lisa Wales, REHS
HAZARDOUS WASTE SPECIALIST III
(714) 433-6214
7:00-8:00 AM

COMMENTS

ZZZ9 - INSPECTOR COMMENTS
On site for a routine hazardous waste inspection. Observed facility and inspected hazardous waste storage area. Inspection was conducted with Shawn Kapoor.

Container of hazardous waste was stored closed and properly labeled. Container appeared to be in good condition.

Manifests/receipts were available for review.

Emergency information is available.

Facility is assigned and using active EPA ID Number CAD982461527.

I declare that I have examined and received a copy of this inspection report.

Print Name and Title SUBHASH C. KAPOOR PRESIDENT

Signature Subhash C. Kapoor Date 9-16-10

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

JACK MILLER, REHS
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

September 18, 1997

David Fields
Irvine Retail Properties
550 Newport Center Drive
Newport Beach, CA 92658

Subject: Case Closure and Referral to Regional Water Quality Control Board

Re: Westpark Cleaners
3881 Alton Parkway
Irvine, CA 92714
O.C.H.C.A. Case # 96IC28

Dear Mr. Fields:

This letter confirms the completion of remedial investigation at the above-referenced site. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

This confirmation of completion is limited in scope. It is limited to site conditions made known to this Agency under the above-referenced case number. It is based on an evaluation of the health threat presented by the inhalation, ingestion, or dermal absorption of the residual contaminants. In addition, this evaluation considered the present and proposed use of the property. Changes in the present or proposed land use may require further site characterization and/or site mitigation activity.

The Santa Ana Regional Water Quality Control Board was contacted by this Agency regarding this site. Regional Board staff expressed concern regarding the presence of the chlorinated volatile organic compounds PCE and TCE to cause groundwater contamination. Groundwater contamination concerns must be addressed by contacting the Santa Ana Regional Water Quality Control Board.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. It is the property owner's responsibility to notify this Agency of any changes in future contamination findings or site usage.

If you have any questions regarding this matter, please contact Luis Lodrigueza at (714) 667-3717.

Sincerely,

Karen L. Hodel
Karen L. Hodel, R.G.
Program Manager
Hazardous Materials Management Section
Environmental Health Division

KLH:LL:

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Neil Orloff, Parsons Behle & Latimer
Anne Marie Brown, Environmental Management Consulting
Kirk Thomson, Environmental Support Technologies
William J. Diekmann, O. C. Supervising Hazardous Waste Specialist

Closure Rationale

O.C.H.C.A. Case No.: **96IC28** August 28, 1997

D.B.A.: **Westpark Cleaners**
3881 Alton Parkway
Irvine, CA 92714

Responsible Party: Irvine Retail Properties

Current Land Use: Commercial
Future Land Use: Commercial
Current Adjacent Land Use: Commercial

Contaminant	Detected Soil Concentrations Maximum (mg/kg)	Deepest	PRG (mg/kg)	MCL (ug/l)
PCE	3.2 (3' bg)	0 .26 (9' bg)	17	5
TCE	0.016 (1' bg)	ND	7	5

Soil Types: Sand with silt and clay to maximum bore depth of 9' below grade (bg)
Depth to Groundwater: 11' bg, measured

As part of its ongoing properties monitoring program, the Irvine Company contracted for the investigation of this facility. Initial site assessment consisted of 2 soil borings installed adjacent to the dry cleaning machine to depths of 3', 6' and 9' bg. A total of 6 soil samples and one groundwater sample were collected. These were analyzed for chlorinated hydrocarbons by EPA Method 8010. Soil samples showed elevated levels of PCE and near-trace concentration of TCE. The groundwater sample showed low, but above-MCL, TCE concentration of 8.7 ug/l.

A soil gas survey was then undertaken, followed by another round of soil sampling in the vicinity of the dry cleaning machine and in two other suspect areas. Samples were collected from depths of 1', 3' and 7' bg and analyzed by EPA Method 8010. Except for no detection of contamination at the 1' and 7' depths in one borehole, all samples were impacted with significant concentrations of PCE.

A vapor risk assessment was conducted for the site, with the maximum PCE concentration assumed to be present directly beneath the facility. Because the calculated excess cancer risk was greater than the maximum acceptable level of one in a million but was due mainly to high PCE concentrations in the immediate vicinity of the dry cleaning machine, a mass-based risk calculation was conducted. This utilized the average of maximum detected PCE concentrations to represent each of three soil layers from surface to 1' bg, 1'-3' bg and 3'-9'bg diffusing through a flux area of 42 m^2. The mass-based model calculation showed that diffusion from the total available PCE mass would result in a risk to the exposed population of less than one in a million.

In view of the insignificant threat of existing site contamination to human health, it is recommended that this case be closed. However, because of the presence of groundwater contamination and the potential of residual contamination to further impact water quality, this case will be referred to the Regional Board. Kamron Saremi of the Santa Ana Regional Board was consulted regarding this and he concurred with closure and case referral.

Luis Lodrigueza
HW Specialist

9/2/97

Karen V. Hoch
9/10/97

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: WESTPARK MB	Revised 7/97		
Site contaminant: PCE			
Staff: Diekmann	Run # 2		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		4.40E+05
(Cmass-1u) mass of contaminant in area 1u = (Ct-1u) concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		1.53E+05
(Ct-1u) concentration of contaminant in area 1u (IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)	mg/kg	0.8925	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		1.71E+05
(Vs-1u) volume of soil in area 1u	m^3	114.66	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - [Pd-1u * (Pt-1u) total porosity of area 1u]	g/cm^3		1.49
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.437	
(Cmass-2u) mass of contaminant in area 2u = (Ct-2u) concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		1.48E+05
(Ct-2u) concentration of contaminant in area 2u (INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg	1.726	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		8.55E+04
(Vs-2u) soil volume of area 2u	m^3	57.3	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - [Pd-2u * (Pt-2u) total porosity of area 2u]	g/cm^3		1.49
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.437	
(Cmass-3u) mass of contaminant in area 3u = (Ct-3u) concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		1.39E+05
(Ct-3u) concentration of contaminant in area 3u (INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)	mg/kg	0.3625	

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		3.85E+05
(Vs-3u) soil volume of area 3u	m^3	257.87	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - [Pd-3u * (Pt-3u) total porosity of area 3u]	g/cm^3		1.49
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0.437	

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
(Cmass-1o) mass of contaminant in area 1o = (Ct-1o) concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3	0	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - [Pd-1o * (Pt-1o) total porosity of area 1o]	g/cm^3		1.59
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0.4	
(Cmass-2o) mass of contaminant in area 2o = (Ct-2o) concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 1)**	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3	1	
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - [Pd-2o * (Pt-2o) total porosity of area 2o]	g/cm^3		0
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	0	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	1	
(Cmass-3o) mass of contaminant in area 3o = (Ct-3o) concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00

(Ct-3o) concentration of contaminant in area 3o (IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF THE CONTAMINANT MASS FOR ONLY TWO OUTSIDE AREAS IS TO BE CALCULATED, INPUT 0)	mg/kg	0	
(Smass-3o) mass of soil in area 3o = (Bd-3o) bulk density of soil in area 3o * (Vs-3o) volume of soil in area 3o * unit conversion factor (10^6 cm^3/1m^3 * 1kg/10^3 g)	kg		0.00E+00
(Vs-3o) volume of soil in area 3o	m^3	1	
(Bd-3o) bulk density of area 3o = (Pd-3o) particle density of area 3o - [Pd-3o * (Pt-3o) total porosity of area 3o]	g/cm^3		0
(Pd-3o) particle density of area 3o (use 2.65 as default)	g/cm^3	0	
(Pt-3o) total porosity of area 3o	cm^3/cm^3	0	

INTAKE (INHALATION) OF VAPOR PHASE

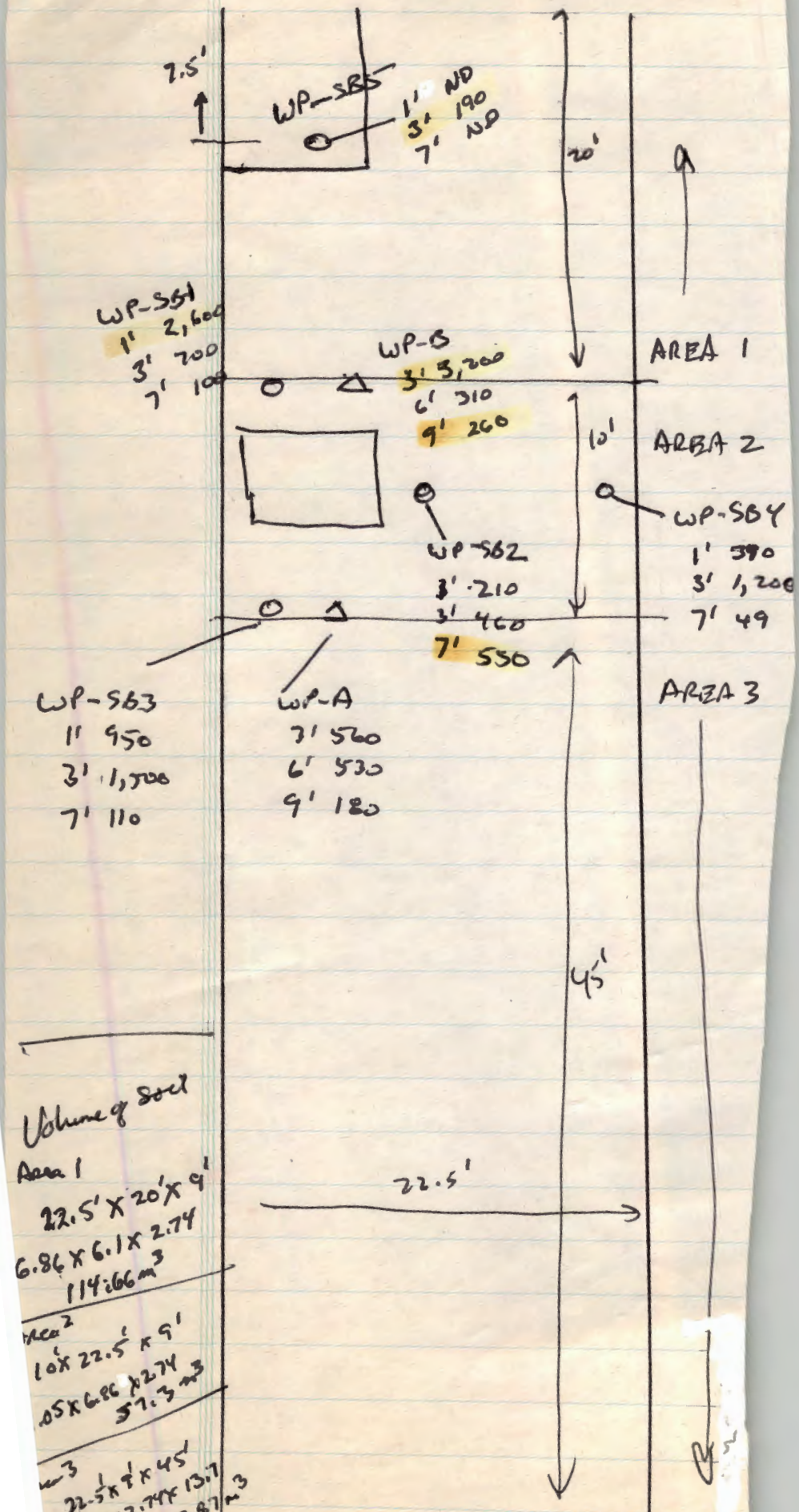
Intake = {[(Cmass-o / u * h * W) + (Cmass-u * b / V * E)] * IR * ET * EF * Unit Conversion Factor (years / sec)} / BW * AT

Variables	Units	Inputs	Outputs
(Cmass-o) mass of contaminant entering building via the atmosphere which received the contaminant via diffusion from contaminated soil located outside building footprint	mg		0.00E+00
(Cmass-0.5o) mass of contamination directed under building by continuous surface paving from contaminated soil located outside building footprint (ENTER 1 IF PAVED AREA DIRECTS VAPORS BELOW BUILDING, OR 0 IF AREA NOT PAVED)	mg	0	0.00E+00
(u) mean wind speed	m/sec	2.25	1.00
(h) height of ambient air mixing zone (e.g. height of window or ventilation system intake)	m	3.40	1.00
(W) width of the source area outside building	m	21.00	1.00
(Cmass-u) total mass of contaminant under building	mg		4.40E+05
(b) attenuation factor	dimensionless	0.001	
(V) volume of building	m^3	450.00	450.00
(E) exchange rate	bldg. vol./sec	5.56E-04	5.56E-04
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	0.42
(EF) exposure frequency (use reference for default value)	days/yr	250	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		6.50E-08

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		6.50E-08
excess lifetime cancer risk	dimensionless		1.37E-09



Volume of Soil

Area 1

$22.5' \times 20' \times 9'$

$6.86 \times 6.1 \times 2.74$

$114.66 m^3$

Area 2

$10' \times 22.5' \times 9'$

$3.05 \times 6.86 \times 2.74$

$57.3 m^3$

m^3

$22.5' \times 9' \times 45'$

$6.86 \times 2.74 \times 13.7$

$257.87 m^3$

Dwest Park MB

Dielsonmarsh.

Volume of Soil Per foot Soil (m^3)

Area 1

$22.5' \times 20' \times 1'$

$6.86 \times 6.1 \times .305$

$= 12.76\ m^3$

Area 2

$22.5' \times 10' \times 1'$

$6.86 \times 3.05 \times .305$

$6.38\ m^3$

Area 3

$22.5' \times 45' \times 1'$

$6.86 \times 13.7 \times .305$

$28.7\ m^3$

Mass of Contaminant by each foot.

Soil Concentration per foot (mg/kg) X Soil mass per foot (kg) = (mg)

Area 1

		Ave. (actual)		
1' –	2600 + 0 =	1300 X	19012.4	= 2.47 +04
2' –	2900 + 95 =	1497.5 X	"	= 2.85 +04
3' –	3200 + 180 =	1690 X	"	= 3.22 +04
4' –	2537.5 + 132.5 =	1335 X	"	= 2.54 +04
5' –	1875 + 85 =	980 X	"	= 1.87 +04
6' –	1212.5 + 37.5 =	625 X	"	= 1.19 +04
7' –	550 + 0 =	275 X	"	= 5.24 +03
8' –	405 + 0 =	202.5 X	"	= 3.83 +03
9' –	760 + 0 =	130 X	"	= 2.47+03
		8035	total mass	1.53 +05 mg.

Soil mass per foot

Bulk density X Vol of soil X unit conversion

Area 1 $1.49\ g/cm^3 \times 12.76\ m^3 \times 1000 = 19012.4$ kg.

Area 2 $1.49\ g/cm^3 \times 6.38\ m^3 \times 1000 = 9.52 +03$

Area 3 $1.49\ g/cm^3 \times 28.7\ m^3 \times 1000 = 4.28 +04$

Note calculate Concentration between known level by

Conc 1 – Conc 2 / total conc / # of levels in between Two #s + 1

Area 2

	ppb	Total Soil mass	total mg
1'	2600		
2'	2900		
3'	3200		
4'	2537.5		
5'	1875		
6'	1212.5		
7'	550		
8'	405		
9'	260		

15549/9

ave conc.

$1.726+03 \times 0.55+04 = 1.48+05$

Area 3

	ppb	Y.Z
1' -	950	
2' -	1225	
3' -	1500	
4' -	1152.5	
5' -	805	
6' -	457.5	
7' -	110	
8' -	145	
9' -	180	

$6525/9 = 725/2 = 362.5$

OCHCA MASS-BASED CONTAMINANT AND INCREASED CANCER RISK ASSESSMENT

Site: Westpark MB	Revised 7/97		
Site contaminant: PCE	8/26/97		
Staff: Lodrigueza	Run #: 1		

TOTAL CONTAMINANT MASS UNDER BUILDING

Cmass-u = Cmass-1u + Cmass-2u + Cmass-3u + ...(Cmass-nu)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-u) total mass of contaminant under building = (Cmass-1u) mass of contaminant in area 1u under building + (Cmass-2u) mass of contaminant in area 2u under building + (Cmass-3u) mass of contaminant in area 3u under building	mg		3.75E+05
concentration of contaminant in area 1u * (Smass-1u) mass of soil in area 1u	mg		4.89E+04
(Ct-1u) concentration of contaminant in area 1u **(IF CONTAMINANT MASS UNDER THE BUILDING IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	2.6	
(Smass-1u) mass of soil in area 1 = (Bd-1u) bulk density of soil in area 1u * (Vs-1u) vol. of soil in area 1u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		1.88E+04
(Vs-1u) volume of soil in area 1u	m^3	12.6	
(Bd-1u) bulk density of area 1u = (Pd-1u) particle density of area 1u - (Pd-1u * (Pt-1u) total porosity of area 1u)	g/cm^3		1.49
(Pd-1u) particle density of area 1u (use 2.65 as default)	g/cm^3	2.65	
(Pt-1u) total porosity of area 1u	cm^3/cm^3	0.437	
concentration of contaminant in area 2u * (Smass-2u) mass of soil in area 2u	mg		1.82E+05
(Ct-2u) concentration of contaminant in area 2u **(INPUT 0 IF ONLY ONE AREA OF CONTAMINANT MASS UNDER THE BUILDING IS TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE OF THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	3.2	
(Smass-2u) mass of soil in area 2u = (Bd-2u) bulk density of soil in area 2u * (Vs-2u) vol. of soil in area 2u * unit conversion factor (10^6 cm^3 / 1 m^3 * 1 kg / 10^3 g)	kg		5.70E+04
(Vs-2u) soil volume of area 2u	m^3	38.22	
(Bd-2u) bulk density of area 2u = (Pd-2u) particle density of area 2u - (Pd-2u * (Pt-2u) total porosity of area 2u)	g/cm^3		1.49
(Pd-2u) particle density of area 2u (use 2.65 as default)	g/cm^3	2.65	
(Pt-2u) total porosity of area 2u	cm^3/cm^3	0.437	
concentration of contaminant in area 3u * (Smass-3u) mass of soil in area 3u	mg		1.43E+05
(Ct-3u) concentration of contaminant in area 3u **(INPUT 0 IF ONLY TWO AREAS OF SOIL MASS UNDER THE BUILDING ARE TO BE CALCULATED, OR IF ONLY CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS TO BE CALCULATED)**	mg/kg	1.875	

(Smass-3u) mass of soil in area 3 = (Bd-3u) bulk density of soil in area 3u * (Vs-3u) volume of soil in area 3u * unit conversion factor (10^6 cm / 1 m^3 * 1 kg / 10^3 g)	kg		7.64E+04
(Vs-3u) soil volume of area 3u	m^3	~~51.24~~	
(Bd-3u) bulk density of area 3u = (Pd-3u) particle density of area 3u - (Pd-3u * (Pt-3u) total porosity of area 3u)	g/cm^3		1.49
(Pd-3u) particle density of area 3u (use 2.65 as default)	g/cm^3	2.65	
(Pt-3u) total porosity of area 3u	cm^3/cm^3	0.437	

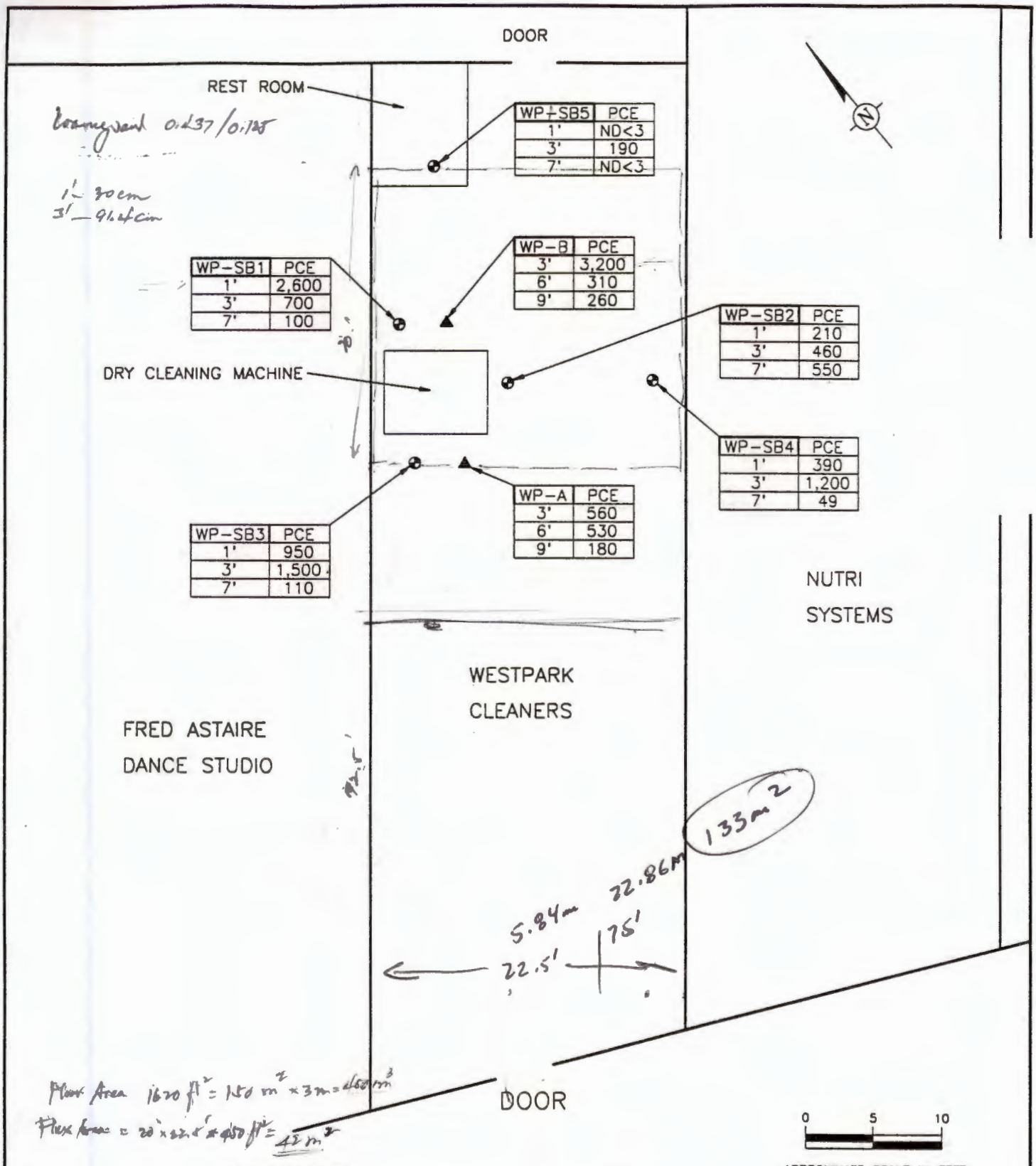
76.8 (revisions in Floppy)

TOTAL CONTAMINANT MASS OUTSIDE OF BUILDING FOOTPRINT

Cmass-o = Cmass-1o + Cmass-2o + Cmass-3o + ...(Cmass-no)

NOTE: CALCULATIONS TO DETERMINE VALUES FOR AREA CONTAMINANT CONCENTRATIONS AND SOIL VOLUMES MUST BE ACCCOMPLISHED INDEPENDENT OF THIS SPREADSHEET.

Variables	Units	Inputs	Outputs
(Cmass-o) total mass of contaminant outside building footprint = (Cmass-1o) mass of contaminant in area 1o outside building + (Cmass-2o) mass in area 2o outside building + (Cmass-3o) mass in area 3o outside building.	mg		0.00E+00
concentration of contaminant in area 1o * (Smass-1o) mass of soil in area 1o	mg		0.00E+00
(Ct-1o) concentration of contaminant in area 1o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT TO BE CALCULATED, INPUT 0)**	mg/kg	0	
(Smass-1o) mass of soil in area 3o = (Bd-1o) bulk density of soil in area 1o * (Vs-1o) volume of soil in area 1o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-1o) volume of soil in area 1o	m^3	0	
(Bd-1o) bulk density of area 1o = (Pd-1o) particle density of area 1o - (Pd-1o * (Pt-1o) total porosity of area 1o)	g/cm^3		1.59
(Pd-1o) particle density of area 1o (use 2.65 as default)	g/cm^3	2.65	
(Pt-1o) total porosity of area 1o	cm^3/cm^3	0.4	
concentration of contaminant in area 2o * (Smass-2o) mass of soil in area 2o	mg		0.00E+00
(Ct-2o) concentration of contaminant in area 2o **(IF CONTAMINANT MASS OUTSIDE THE BUILDING FOOTPRINT IS NOT CALCULATED, OR IF ONLY THE CONTAMINANT MASS FOR OUTSIDE AREA 1 IS TO BE CALCULATED, INPUT 1)**	mg/kg	0	
(Smass-2o) mass of soil in area 2o = (Bd-2o) bulk density of soil in area 2o * (Vs-2o) volume of soil in area 2o * unit conversion factor (10^6 cm^3 / 1m^3 * 1kg / 10^3 g)	kg		0.00E+00
(Vs-2o) volume of soil in area 2o	m^3		
(Bd-2o) bulk density of area 2o = (Pd-2o) particle density of area 2o - (Pd-2o * (Pt-2o) total porosity of area 2o)	g/cm^3		0
(Pd-2o) particle density of area 2o (use 2.65 as default)	g/cm^3	0	
(Pt-2uw) total porosity of area 2uw	cm^3/cm^3	1	
concentration of contaminant in area 3o * (Smass-3o) mass of soil in area 3o	mg		0.00E+00



EXPLANATION

- ● SOIL BORING ADVANCED BY EST (7-23-1997) WITH ASSOCIATED BORING NUMBER, BORING DEPTH AND DETECTED CPNCENTRATIONS OF TETRACHLOROETHENE (PCE) IN MICROGRAMS OF COMPOUND PER KILOGRAM OF SOIL
- ▲ SOIL BORING ADVANCED BY DELTA (3-14-1996) WITH ASSOCIATED BORING NUMBER, BORING DEPTH AND DETECTED CPNCENTRATIONS OF TETRACHLOROETHENE (PCE) IN MICROGRAMS OF COMPOUND PER KILOGRAM OF SOIL

SOURCE OF BASE MAP: ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.

FIGURE 3

DETECTED CONCENTRATIONS OF TETRACHLOROETHENE IN SOIL SAMPLES

WESTPARK CLEANERS / WESTPARK PLAZA
3881 ALTON PARKWAY
IRVINE, CALIFORNIA
EST1378 / SITE ASSESSMENT REPORT

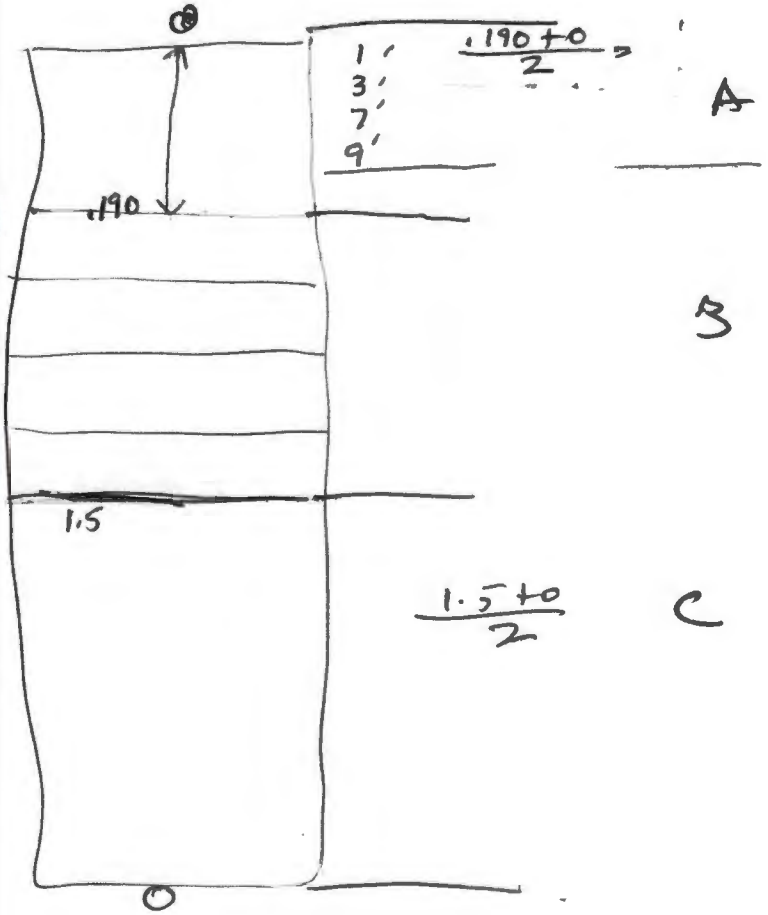
DRAWN BY: JST SCALE: AS SHOWN DATE: 8-4-97

E1378-1A.DWG

volume	area	thickness	Mean conc. used
12.19 m³	12m²	— 0.30 m	0 - 1 = 2.16 mg/kg —
38.22		— 0.91 m	1 - 3 = $\frac{2.16 + 3.2}{2}$ = 2.9 mg/kg (3.2 max)
51.22		— 1.22 m,	3-7 = $\frac{2.9 + 0.55}{2}$ = 1.725 mg/kg
		— 0.91 m.	7-9 = $\frac{1.725 + 0.26}{2}$ = 0.90

$\frac{2.2 + 0.55}{2}$ = 1.375 mg/kg (max)

Using max conc., risk ≥ 1.0E-05



1st run

highest conc at each depth and then ave vertically

2nd ave conc at each depth and then ave. vertically

Do for all 3 areas then put into model.

OCHCA VAPOR DIFFUSION MODEL AND INCREASED CANCER RISK ASSESSMENT

Site: Westpark	Revised 7/97		
Site contaminant: PCE	8/26/97		
Staff: Lodrigueza	Run # 1		

SOIL PORE WATER

$C_{sg} = C_t / M_{wet} * H$

(Note: When multiple soil layers are used in the flux calculation, be sure that the soil characteristic values that are used below are from the layer in which the contaminant is located.)

Variables	Units	Inputs	Outputs
(Ct) contaminant concentration in soil **(IF NOT USING THE SOIL PORE WATER COMPONENT, INPUT 0)**	mg/kg	2.60	
(Mwet) calculated wet weight soil moisture content = Mdry / 1 + Mdry	gram/gram		7.73E-02
Mwet (site specific data) **(INPUT 0 IF NOT USING)**	gram/gram	0.00	
(H) Henry's Law constant	Dimensionless	0.943	
(Mdry) calculated soil moisture by dry weight = soil moisture by volume (Pw) / bulk density (Bd)	gram/gram		8.38E-02
Mdry (site specific data) **(INPUT 0 IF NOT USING)**	gram/gram	0.00	
(Pw) soil moisture by volume (Use reference for default value) (Note: 1 cm^3 water = 1 gram water)	cm^3/cm^3	0.125	
(Bd) bulk density = particle density (Pd) - (Pd * total porosity (Pt))	g/cm^3		1.49E+00
(Pd) particle density (Use 2.65 as default value)	g/cm^3	2.65	
(Pt) total porosity (Use reference for default values)	cm^3/cm^3	0.437	
calculated soil gas level	mg/l		3.17E+01
calculated soil gas level (unit conversion)	mg/cm^3		3.17E-02

DISSOLVED IN GROUNDWATER

$Csg = Cw * H$

Variables	Units	Inputs	Outputs
(Cw) concentration in groundwater **(IF NOT USING DISSOLVED IN GROUNDWATER COMPONENT, INPUT 0)**	ppm (mg/l)		
(H) Henry's Law constant	dimensionless		
calculated soil gas level	mg/cm^3		0.00E+00

DIRECT MEASUREMENT OF SOIL GAS

Variables	Units	Inputs	Outputs
(Csg) contaminant soil gas concentration **(IF NOT USING DIRECT MEASUREMENT COMPONENT, INPUT 0)**	mg/m^3	0.00	
spreadsheet unit conversion to mg/cm^3	mg/cm^3		0.00E+00

Conversion of Direct measurement Csg from0 to > #			1.00E+05
Variables	**Units**	**Inputs**	**Outputs**
(VP) vapor pressure at 20° C **(IF NOT USING THE FREE PRODUCT COMPONENT, INPUT 0)**	atm	0.00	
(MW) molecular weight (be sure to convert g to mg)	mg/mole	78000	
(MF) mole fraction	dimensionless	0.03	
(R) universal gas constant	cc-atm/mole-°	8.21E+01	
(T) absolute temperature	°K	293	
calculated soil gas level	mg/cm^3		0.00E+00

FLUX

F = Csg / {(Lv1 / Deff-v1) + (Lv2 / Deff-v2) + ... (Lvn / Deff-vn) + (if dissolved in groundwater) ((Lfz / Deff-fz)+(Lcf / Deff-cf))}

NOTE: If your site modeling includes both indoor and outdoor flux, and flux for outdoors (Fo) is expected to differ from indoor flux (Fi), first calculate outdoor flux and enter results in Outdoor Air Component, then return and calculate flux for use in indoor air calculation.

Variables	**Units**	**Inputs**	**Outputs**
(Csg) soil gas level (Note: spreadsheet selected the lowest non-zero Csg from above for use)	mg/cm^3		3.17E-02
(Lv1) vertical length of 1st soil layer between source contamination and surface when modeling in the vadose zone, or vertical lenght of 1st soil layer between the top of capillary zone and the surfure when modeling dissolved in groundwater	cm	30	
(Lv2) vertical length of 2nd vadose zone layer modeled above source contamination or capillary zone **(IF ONLY ONE LAYER IS CONSIDERED, INPUT 0)**	cm	0	
(Lv3) vertical length of 3rd vadose zone layer modeled above source contamination or capillary zone **(IF ONLY ONE OR TWO LAYERS ARE CONSIDERED, INPUT 0)**	cm	0	
(Deff-v1) effective diffusion coefficient vadose zone layer 1 = D^air * Pa-v1^3.33 / Pt-v1^2	cm^2/sec		7.80E-03
(D^air) diffusion coefficient in air (use reference for default)	cm^2/sec	0.072	
(Pa-v1) air filled porosity vadose zone layer 1 = Pt-v1 - Pw-v1	dimensionless		0.312
(Pt-v1) total porosity vadose zone layer 1 (use reference for default)	cm^3/cm^3	0.437	
(Pw-v1) soil moisture by volume vadose zone layer 1 (use reference for default value)	cm^3/cm^3	0.125	
(Deff-v2) effective diffusion coefficient vadose layer 2 = D^air * Pa-v2^3.33 / Pt-v2^2	cm^2/sec		5.52E-04

LIQUID PHASE CONTAMINANT

Csg = VP * MW * MF / R * T

(Pw-v2) soil moisture by volume vadose zone layer 2 (use reference for default value) **(IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)**	cm^3/cm^3	0.318	
(Deff-v3) effective diffusion coefficient vadose layer 3 = D^air * Pa-v3^3.33 / Pt-v3^2	cm^2/sec		0.00E+00
(Pa-v3) air filled porosity vadose zone layer 3 = Pt-v3 - Pw-v3	dimensionless		0.000
(Pt-v3) total porosity vadose zone layer 3 (use reference for default value) **(IF ONLY ONE OR TWO LAYERS ARE TO BE CONSIDERED, INPUT 1)**	dimensionless	1	

(Pw-v3) soil moisture by volume, vadose zone layer 3 (use reference for default value) **(IF ONLY ONE OR TWO LAYERS ARE TO BE CONSIDERED, INPUT 1)**	cm^3/cm^3	1	
(Lcz) vertical length of capillary zone (use reference for default value) **(INPUT 0 IF NOT MODELING DISSOLVED IN GROUNDWATER)**	cm	0	
(Lfz) vertical lenght of funicular zone (see references for default value) **(INPUT 0 IF NOT MODELING DISSOLVED IN GROUNDWATER)**	cm	0	
(Lcf) vertical length of capillary fringe = Lcz - Lfz	cm		0
(Deff-fz) effective diffusion coefficient through funicular zone = D^air * (Pa-fz^3.33 / Pt-fz^2) + D^water * (1/H) * (Pw-fz^3.33 / Pt-fz^2)	cm^2/sec		0.00E+00
(D^water) diffusion coefficient in water (chemical specific)	cm^2/sec	1.02E-05	
(H) Henry's Law constant (chemical specific)	dimensionless	1	
(Pa-fz) volumetric air content in funicular zone soils = Pt-fz - Pw-fz	dimensionless		0.488
(Pt-fz) total porosity of funicular zone (see reference for default value) **(INPUT 1 IF MODELING OTHER THAN DISSOLVED IN GROUNDWATER)**	dimensionless	1	
(Pw-fz) volumetric water content in funicular zone = (Pw-v1+ Pw-cf) / 2	cm^3/cm^3		0.513
(Deff-cf) effective diffusion coefficient through capillary fringe = D^air * (Pa-cf^3.33 / Pt-cf^2) + D^water * (1/H) * (Pw-cf^3.33 / Pt-cf^2)	cm^2/sec		0.00E+00
(Pa-cf) volumetric air content in capillary fringe soils = Pt-cf - Pw-cf	cm^3/cm^3		0.100
(Pt-cf) total porosity of capillary fringe soil	cm^3/cm^3		1.000
(Pw-cf) volumetric water content in capillary fringe soil = 0.90 * Pt-cf	cm^3/cm^3		0.900
(F) flux (includes converion to m^2)	mg/sec-m^2		8.24E-02

OUTDOOR AIR COMPONENT

Co = (Fo * Ld) / (u * h)

*** See note in Flux Section regarding Fo**

Variables	Units	Inputs	Outputs
ENTER 0 IF OUTDOOR AIR COMPONENT IS NOT TO BE USED; ENTER 1 IF OUTDOOR COMPONENT IS USED AND Fo = Fi; OR IF OUTDOOR COMPONENT IS USED AND Fo ≠ Fi, ENTER THE CALCULATED Fo.	mg/sec-m^2	0	
ENTER 1 IF Fo ≠ Fi (where due to different contaminant concentrations,different soil types or different soil layer lengths, a different flux value is calculated for an area adjacent to building than was calculated for the area below building) ENTER 0 IF Fo = Fi	mg/sec-m^2	0	8.24E-02
(Ld) down wind length of contamination	m	1.524	
(u) wind speed	m/sec	0.0138833	
(h) height of ambient air mixing zone (e.g. height of doorway or ventilation system intake)	m	2.44	
(Co) concentration in outdoor air	mg/m^3		0.00E+00

CONCENTRATION IN INDOOR AIR

Ci = (Co) + (b * Fu * A) / (V * E)

Variables	Units	Inputs	Outputs
(Co) concentration. in outdoor air	mg/m^3		0.00E+00
(b) attenuation factor. **(INPUT 0 IF CALCULATING Co ONLY)**	dimensionless	0.001	
(Fu) flux for area under building	mg/sec-m^2		8.24E-02
(A) area through which flux occurs under building	m^2	42	
(V) volume of building **(INPUT 1 IF CALCULATING Fo ONLY)**	m^3	450	
(E) exchange rate **(INPUT 1 IF CALCULATING Fo ONLY)**	bldg. vol./sec	1.39E-04	
(Ci) total indoor air contaminant concentration	mg/m^3		5.53E-02

INTAKE (INHALATION) OF VAPOR PHASE

Intake = (Ci * IR * ET * EF * ED) / (BW * AT)

Variables	Units	Inputs	Outputs
ENTER 0 IF SOURCE IS UNDER BUILDING; ENTER 1 IF PAVED AREA DIRECTS VAPORS UNDER BUILDING.	dimensionless	0	
(Ci) total indoor air contaminant concentration	mg/m^3		5.53E-02
(IR) daily intake rate (use reference for default value)	m^3/day	20	
(ET) exposure time	hrs/24 hrs	10	4.17E-01
(EF) exposure frequency (use reference for default value)	days/yr	250	
(ED) exposure duration (use reference for default value)	yrs	25	
(BW) body weight (use reference for default value)	kg	70	
(AT) averaging time	days	2.55E+04	
intake	mg/kg-day		1.61E-03

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
carcinogenic slope factor (potency factor)	1/mg/kg/day	0.021	
units of exposure (from intake calculation above)	mg/kg/day		1.61E-03
excess lifetime cancer risk	dimensionless		3.39E-05

Attachment to Delta Env. Report dated Mar. 21/96.

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
THE IRVINE COMPANY RETAIL PROPERTIES
GIANT CLEANERS, CULVER VILLAGE
YES CLEANERS, WALNUT VILLAGE
WESTPARK CLEANERS, WESTPARK PLAZA
WOODBRIDGE CLEANERS, WOODBRIDGE VILLAGE
IRVINE, CALIFORNIA
DELTA PROJECT NO. L096-004-2

SAMPLE NO.	DATE	CONCENTRATIONS (µg/kg)
		8010 (tetrchloroethene)
WV1-A3' WV1-A8'	3/13/96	1,700,000 140,000
WV1-B3' WV1-B9'	3/13/96	42,000 1,500
CP-A3' CP-A7'	3/13/96	130 160
CP-B3' CP-B8'	3/13/96	350 130
WP-A3' WP-A6' WP-A8'	3/14/96	540 530 180
WP-B3' WP-B6' WP-B9'	3/14/96	3,200 310 260
WV2-A3' WV2-A10'	3/14/96	280 190
WV2-B3' WV2-B10' WV2-B15'	3/14/96	160 77 65

NOTES: µg/kg = Micrograms per kilogram
8010 = Chlorinate solvents
Other chlorinated solvents were not detected at or above the laboratory detection limits; see laboratory report for detection limits, Attachment B

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
THE IRVINE COMPANY RETAIL PROPERTIES
GIANT CLEANERS, CULVER VILLAGE
YES CLEANERS, WALNUT VILLAGE
WESTPARK CLEANERS, WESTPARK PLAZA
WOODBRIDGE CLEANERS, WOODBRIDGE VILLAGE
IRVINE, CALIFORNIA
DELTA PROJECT NO. L096-004-2

SAMPLE NO.	DATE SAMPLED	CONCENTRATIONS (µg/L)
		8010 (tetrachloroethene)
WV1-W	3/13/96	260,000
CP-W0	3/13/96	80
WP-W	3/14/96	8.7 (1.4_a, 1.3_b, 1.0_c)
WV2-W	3/14/96	31

NOTES:
µg/L = Micrograms per liter
8010 = Chlorinate solvents
a = Bromodichloromethane
b = Chloroform
c = Dibromochloromethane
Other chlorinated solvents were not detected at or above the laboratory detection limits; see laboratory report for detection limits, Attachment B

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Delta Environmental
27141 Aliso Creek Rd., Suite 270
Aliso Viejo, CA 92656
Attention: Patti Crump

Client Project ID: L096-004-2.0001
Sample Descript: Soil, WP-W
Lab Number: FC02136

Sampled: Mar 14, 1996
Received: Mar 14, 1996
Extracted: Mar 15, 1996
Analyzed: Mar 15, 1996
Reported: Mar 15, 1996

HALOGENATED VOLATILE ORGANICS by GC (EPA 5030/8010)

Analyte	Detection Limit µg/L (ppb)	Sample Result µg/L (ppb)
Bromodichloromethane	**0.50**	**1.4**
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon tetrachloride	0.50	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.5	N.D.
2-Chloroethylvinyl ether	2.5	N.D.
Chloroform	**0.50**	**1.3**
Chloromethane	1.0	N.D.
Dibromochloromethane	**0.50**	**1.0**
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	**0.50**	**8.7**
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

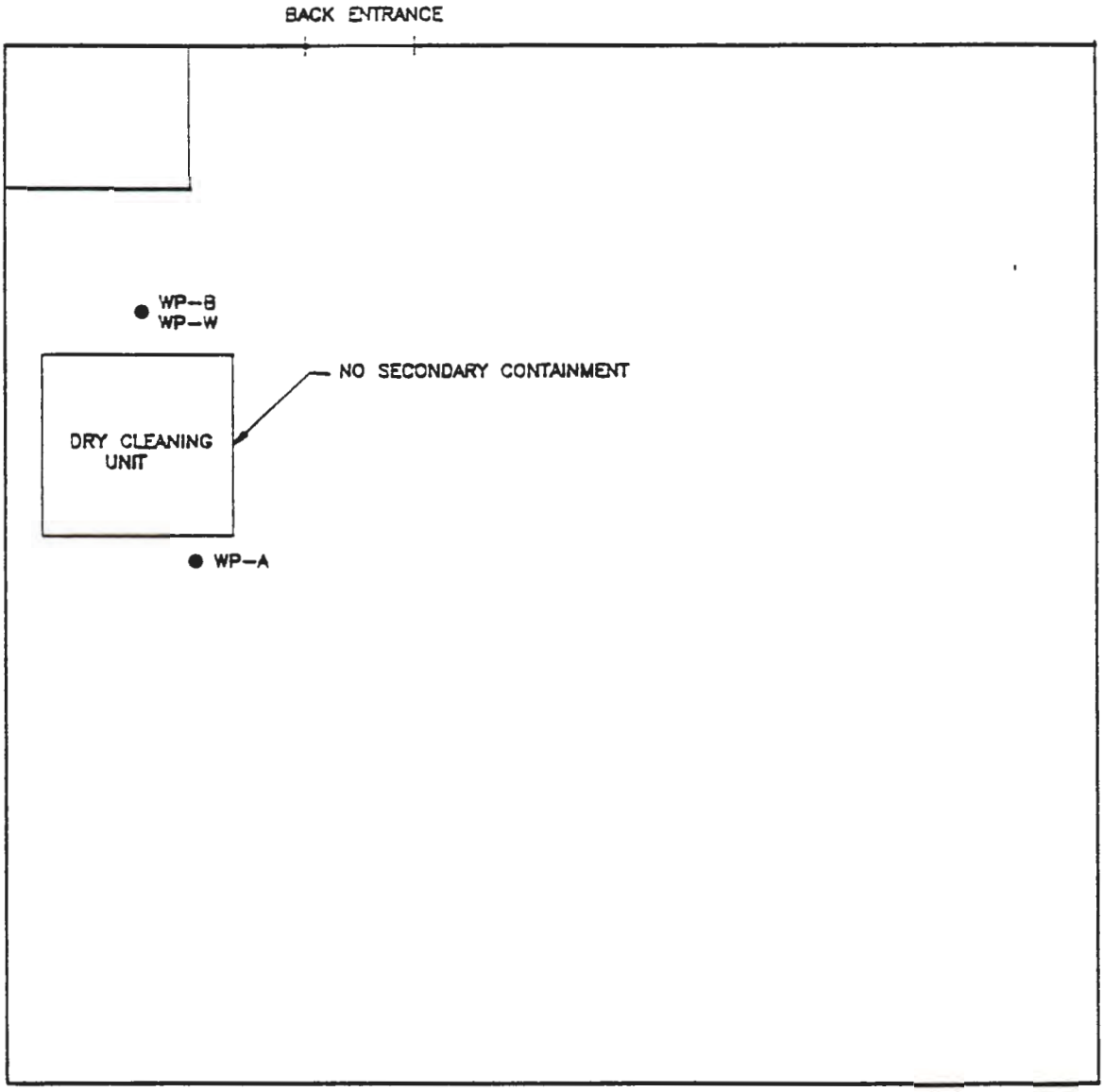
Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Valerie Brunell
Project Manager

Surrogate Standard Recovery:	
1-Chloro-3-fluorobenzene	100%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.



NOT TO SCALE

LEGEND

WP-W ● GROUNDWATER SAMPLE LOCATION

WB-B ● SOIL SAMPLE LOCATION

FIGURE 3
SOIL AND GROUNDWATER SAMPLE LOCATION MAP
WESTPARK CLEANERS
WESTPARK PLAZA
IRVINE, CA.

PROJECT NO. L096-004		DRAWN BY K. MARTIN	
FILE NO. 6-004-08		PREPARED BY P. CRUMP	
DATE 20 MAR 96	REV. 0	REVIEWED BY	

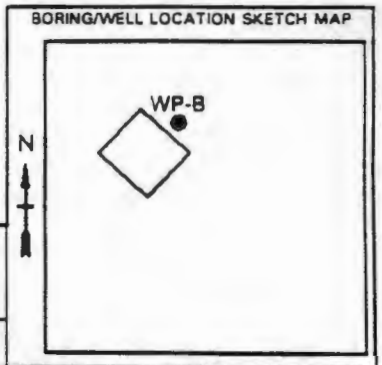
Delta Environmental Consultants, Inc.

Delta
Environmental
Consultants, Inc.

Page 1 of 1

SOIL BORING LOG

BORING/WELL LOCATION SKETCH MAP



BORING/WELL NO.			
WP-B			
PROJECT NO./NAME	LOCATION		
L096-004-2/Westpark Cleaners	3881 Alton Parkway Irvine, California		
DRILLING CONTRACTOR/DRILLER			
Delta/Jeff Brecht			
GEOLOGIST/OFFICE	APPROVED BY		
Patti Crump/Orange County			
DRILLING EQUIPMENT/METHOD	SIZE/TYPE OF BIT	SAMPLING METHOD	START/FINISH DATE
Hand Auger/Hand Auger	NA	Hand Auger	3/14/96-3/14/96
			TOTAL DEPTH
			14.0

Depth, feet	Graphic Log	Visual Description	Sample No. and Interval	Penetration Rate (Blows/ft.)	PID Values (ppm)
		LITHOLOGY			**SAMPLING DATA**
		Concrete			
		SILTY SAND (SM); Olive, dry, medium grained sand			
			WP-B-5		
5					
			WP-B-6		
			WP-B-9		
10					
	▽ Groundwater Level 3/14/96	Becomes moist			

Boring terminated at 14 feet below ground surface (bgs). Groundwater encountered at approximately 11 feet bgs. Boring backfilled with soil from boring and capped with concrete.

96048 DLTS 3/20/96

ANNE MARIE BROWN

Environmental Management Consulting

August 18, 1997

Mr. Luis Lodrigueza, Hazardous Waste Specialist
Hazardous Materials Management Section, Environmental Health Division
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705-4720

RE: Results of Soil Assessments:
Sunny Fresh Cleaners, 4722 Barranca Parkway, Irvine, CA.
Giant Cleaners, 15333 Culver Drive, Irvine, CA.
Westpark Cleaners, 3881 Alton Parkway, Irvine, CA.

Dear Luis:

Previously, The Irvine Company, as property owner of the above referenced properties conducted soil gas surveys at the subject properties. Following receipt of this data, you indicated that OCHCA would prefer to see soil sampling/analysis data. In July, 1996 this additional investigation was conducted and has been documented in the attached assessment reports prepared by EST. David Fields, Vice President and Legal Counsel with The Irvine Company has requested that I provide the assessment reports to you for review and to request your concurrence with our findings.

As indicated in the attached reports, the investigations involved advancing soil borings at five locations within the units. Borings were positioned adjacent to the dry cleaning machine, and in areas where hazardous wastes were stored. Soil samples were collected at 1,3 and 7 feet below grade. No significant cracks or chemical stains were observed on/in the slab floor at any of the referenced properties.

Analysis of the soil samples appear to indicate that elevated concentrations of PCE found in soil samples are possibly the result of long-term diffusion of vapor-phase PCE through the concrete slab floor, and as a result of use of the unit as a dry cleaning business. In all sites, concentrations of PCE in soil attenuate with depth.

1979 Port Cardigan Place, Newport Beach, CA 92660 (714) 760-8014

Please direct OCHCA invoices for your time on this matter to David Fields, V.P., The Irvine Company, 550 Newport Center Drive, Newport Beach, CA. 92658. Should you have any questions please do not hesitate to call me at (71) 760-8014.

Sincerely,

Anne M. Brown, R.E.A. #201

cc: David Fields, Irvine Retail Properties
John Skillman, Hollis & Associates
Laurie Stites, Hollis & Associates

COUNTY OF ORANGE
HEALTH CARE AGENCY

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

November 18, 1996

Anne M. Brown
Environmental Management Consultant
1979 Port Cardigan Place
Newport Beach, CA 92660

Subject: Site Assessment Data

Re: Irvine Cleaner Sites--Giant, Westpark and Sunny Fresh (Woodbridge)--
O.C.H.C.A. Cases No. 96IC27, 96IC28 and 96IC29, respectively

Dear Ms. Brown:

Please be advised that this Agency has reviewed the subject data you submitted. The information provided--except for the soil types beneath the cleaner sites--had already been incorporated in the Soil Gas Survey reports prepared by EST. It was also noted that sample collection involved the transfer of soil from the hand auger to brass sleeves, which is not in accordance with the accepted protocol of taking "undisturbed samples" from media with volatile constituents.

It is therefore reiterated--as outlined in this Agency's previous communications--that undisturbed shallow (12" to 18") soil samples, closest to the most impacted areas and collected in brass sleeves using slide hammer or similar technique, be obtained and analyzed for chlorinated organic compounds by EPA method 8010. Analytical results from this sampling, including other information already provided earlier, will be used in the determination of actual or potential threat to human health and safety.

If you have any questions regarding this matter, please contact me at (714) 667-3717.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

LL:

cc: Kamron Saremi, Santa Ana Regional Water Quality Control Board
Neil Orloff, Parsons Behle & Latimer
Kirk A. Thomson, Environmental Support Technologies, Inc.
William J. Diekmann, O. C. Supervising Hazardous Waste Specialist

ANNE MARIE BROWN

Environmental Management Consulting

October 26, 1996

Orange County Health Care Agency
Mr. Luis Lodrigueza, Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division
2009 East Edinger Avenue
Santa Ana, California 92705-4720

Subject: Additional Site Assessment Data:
Yes Cleaners, OCHCA Case #96IC26, Giant Cleaners, OCHCA Case #96IC27 Westpark Cleaners, OCHCA Case #96IC28, Sunny Fresh Cleaners, OCHCA Case #96IC29

Dear Luis:

In your letters of September 11, 1996 to Neal Orloff regarding the subject dry cleaner sites you requested additional information concerning soil contaminant concentrations at shallow depths and soil types. Per our recent telephone conversation, I am enclosing a subsurface investigation report prepared by Delta Environmental Consultants in March, 1996. This report documents the initial investigation conducted at each of the subject sites, the results of which were summarized in the Site Assessment Report and Soil Gas Survey Reports subsequently prepared by EST. Delta's report documents their investigation at each of the subject dry cleaners.

Based on the Delta results, EST's soil gas survey aimed to further define the lateral and vertical extent of PCE contamination at each of the sites. Based on EST's findings we feel that we have a good handle on the situation at each of the cleaners sites. We realize that additional work needs to be done at Yes Cleaners, and are currently in the process of reviewing our assessment/remediation options to best address this site. We hope that the Delta and EST reports provide sufficient information for you to consider closure of the Sunny Fresh, Westcliff and Giant Cleaner sites as previously requested. Should you have any questions or require further information, please call me at (714) 760-8014.

Sincerely,

Anne M. Brown

Anne M. Brown, R.E.A. #201

cc: David Fields, Irvine Retail Properties
Neal Orloff, Parsons Behle & Latimer

1979 Port Cardigan Place, Newport Beach, CA 92660 (714) 760-8014

Delta
Environmental
Consultants, Inc.

27141 Aliso Creek Road
Suite 270
Aliso Viejo, CA 92656
714 362-3077
FAX: 714 362-0290

March 21, 1996

Ms. Maryann Hobbs
Manager, Corporate Finance
The Irvine Company
550 Newport Center Drive
Newport Beach, California 92660

Subject: Subsurface Investigation Addendum to
the Environmental Assessment Report
The Irvine Company Retail Properties:
Giant Cleaners at Culver Plaza,
Yes Cleaners at Walnut Village,
Westpark Cleaners at Westpark Plaza, and
Woodbridge Cleaners at Woodbridge Village
Irvine, California
Delta Project No. L096-004-2

Dear Ms. Hobbs:

Delta Environmental Consultants, Inc. (Delta) has completed a subsurface investigation at the above-mentioned subject properties. Delta performed this assessment according to the *Proposal for Subsurface Investigation*, dated March 6, 1996. The subsurface investigations were performed in order to evaluate the potential chlorinated solvent contamination of the soil and groundwater associated with the current and historical activities at the dry cleaners. This report presents the results of the field activities and laboratory analyses.

FIELD ACTIVITIES

On March 13 and 14, 1994, Delta was at the subject properties to advanced a total of eight hand-auger borings (two borings per site) in the vicinity of the existing dry cleaning units (Figures 1 through 4). The boring locations were premarked, following discussions with the current property owner of each subject property, to determine the location of underground utilities. The surface of each boring was cut using a concrete corer. Soil samples were collected at depths based on the depth to the groundwater at each of the subject properties. Soil samples were collected by transferring soil from the hand auger to precleaned brass sleeves. The sleeves were sealed using Teflon™ sheets, plastic caps and duct tape. The soil samples were stored in an ice-chilled container pending delivery to the laboratory. During the advancement of each boring, the soil was classified according to the Unified Soil Classification System. Prior to the soil sampling activities, and in between each soil boring, the hand auger was washed in a Citranox™ solution and double rinsed with deionized water. Soil classification information is presented on the soil boring logs included in Appendix A of this report.

One boring at each of the subject properties was advanced approximately 2 feet into the groundwater table. The borehole remained open to allow the groundwater to infiltrate into the borehole. The depth to groundwater was measured prior to sample collection. A groundwater sample was collected by using a ¼-inch plastic bailer. The bailers were disposed of after each sampling event. Groundwater samples were collected in two, 40 milliliter glass volatile organic analysis vials. The infiltration rate was very slow, therefore the measured depth to groundwater may not be representative of the actual depth to groundwater.

Following boring termination, the boreholes were backfilled with the soil from the borehole to a depth of approximately 6 inches below ground surface (bgs). The remaining borehole was backfilled to the surface with concrete.

Yes Cleaners, Walnut Village

Yes Cleaners is located at 14419 Culver Drive, Walnut Village, Irvine, California. Two hand-auger borings (WV1-A and WV1-B) were advanced in the immediate vicinity of the active dry cleaning unit (Figure 1). Boring WV1-A was advanced to a total depth of 8 feet bgs and soil samples were collected at 3 and 8 feet bgs. Boring WV1-B was advanced to a total depth of 12 feet bgs, approximately 2 feet into the groundwater table. Soil samples were collected at 3 and 9 feet bgs. The 9-foot sample was collected within the capillary fringe. The soil encountered during this investigation consisted of clay to the total depth of the investigation. Boring WV1-B remained open to allow groundwater to infiltrate into the borehole. When enough groundwater had infiltrated into the borehole the depth to groundwater was measured and a groundwater sample was collected. Groundwater was measured at 10.51 feet bgs.

Giant Cleaners, Culver Plaza

Giant Cleaners is located at 15333 Culver Drive, Culver Plaza, Irvine, California. Two hand-auger borings (CP-A and CP-B) were advanced in the immediate vicinity of the active dry cleaning unit and the 55-gallon drums containing new and used dry cleaning chemicals (Figure 1). Boring CP-A was advanced to a total depth of 7 feet bgs and soil samples were collected at 3 and 7 feet bgs. Boring CP-B was advanced to a total depth of 11 feet bgs, approximately 2 feet into the groundwater table. Soil samples were collected at 3 and 8 feet bgs. The 8-foot sample was collected within the capillary fringe. The soil encountered during this investigation consisted of silty-clayey sand to the total depth of the investigation. Boring CP-B remained open to allow groundwater to infiltrate into the borehole. When enough groundwater had infiltrated into the borehole the depth to groundwater was measured and a groundwater sample was collected. Groundwater was measured at 9.17 feet bgs.

Westpark Cleaners, Westpark Plaza

Westpark Cleaners is located at 3881 Alton Parkway, Westpark Plaza, Irvine, California. Two hand-auger borings (WP-A and WP-B) were advanced in the immediate vicinity of the active dry cleaning unit (Figure 1). Boring WP-A was advanced to a total depth of 8 feet bgs and soil samples were collected at 3, 6, and 8 feet bgs. Boring CP-B was advanced to a total depth of 14 feet bgs, approximately 2 feet into the groundwater table. Soil samples were collected at 3, 6, and 9 feet bgs. The 9-foot samples was collected within the capillary fringe. The soil encountered during this investigation consisted of silty sand to the total depth of the investigation. Boring WP-B remained open to allow groundwater to infiltrate into the borehole. When enough groundwater had infiltrated into the borehole the depth to groundwater was measured and a groundwater sample was collected. Groundwater was measured at 9.17 feet bgs.

Woodbridge Cleaners, Woodbridge Village (Sunny Fresh Cleaners)

Woodbridge Cleaners is located at 4722 Barranca Parkway, Woodbridge Village, Irvine, California. Two hand-auger borings (WV2-A and WV2-B) were advanced in the immediate vicinity of the active dry cleaning unit (Figure 1). Boring WV2-A was advanced to a total depth of 10 feet bgs and soil samples were collected at 3 and 10 feet bgs. Boring WV2-B was advanced to a total depth of 15 feet bgs. Soil

samples were collected at 3, 10, and 15 feet bgs. The soil encountered during this investigation consisted of silty sand to 10 feet bgs and sand to the total depth of the investigation. A groundwater sample was collect from the existing groundwater monitoring well (RW-18) immediately outside the back door of the retail space, approximately 20 feet from the dry cleaning unit. The well was installed by Mobil Oil Company (Mobil). Permission was granted to Delta by Mobil on February 14, 1996. Depth to groundwater was measured at 25.16 feet bgs.

LABORATORY RESULTS

Soil samples were transported to Del Mar Analytical (Del Mar) located in Irvine, California. Del Mar is a California Department of Health Services-approved analytical laboratory. Strict chain-of-custody procedures were followed from sample collection to delivery to the laboratory. All soil samples collected were analyzed for chlorinated solvents according to Environmental Protection Agency Method 8010. Laboratory reports and chain-of-custody forms are included in Appendix B of this report. Soil and groundwater sample results are presented in Tables 1 and 2.

Yes Cleaners

Analytical results indicated tetrachloroethene (PCE) in soil samples WV1-A3 and WV1-A8 at 1,700,000 and 140,000 micrograms per kilogram (μg/kg), respectively. Concentrations of PCE were also indicated in soil samples WV1-B3 and WV1-B9 at 42,000 and 1,500 μg/kg, respectively.

PCE was detected in the groundwater sample collected from boring WV1-B labeled WV1-W at 260,000 micrograms per liter (μg/L).

Giant Cleaners

Analytical results indicated PCE in soil samples CP-A3 and CP-A7 at 130 and 160 μg/kg, respectively. Concentrations of PCE were also indicated in soil samples CP-B3 and CP-B8 at 350 and 130 μg/kg, respectively.

PCE was detected in the groundwater sample collected from boring CP-B labeled CP-WO at 80 μg/L.

Westpark Cleaners

Analytical results indicated PCE in soil samples WP-A3, WP-A6, and WP-A8 at 540, 530, and 180 μg/kg, respectively. Concentrations of PCE were also indicated in soil samples WP-B3, WP-B6, and WP-B9 at 3,200, 310, and 260 μg/kg, respectively.

PCE was detected in the groundwater sample collected from boring WP-B labeled WP-W at 8.7 μg/L. Trace levels of bromodichloromethane, chloroform, and dibromochloromethane were also detected in the groundwater sample.

2.4 Woodbridge Cleaners

Analytical results indicated PCE in soil samples WV2-A3 and WV2-A10 at 280 and 190 μg/kg, respectively. Concentrations of PCE were also indicated in soil samples WV2-B3, WV2-B10, and WV2-B15 at 160, 77, and 65 μg/kg, respectively.

PCE was detected in the groundwater sample collected from the existing Mobil monitoring well RW-18 labeled WV2-W at 31 $\mu g/L$.

If you have any further questions or comments regarding this investigation, please contact Patti Crump at (714) 362-3077.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Patricia A. Crump
Project Scientist

John E. Huff, P.E.
Senior Project Manager

Attachments:
- Table 1 - Soil Sample Analytical Results
- Table 2 - Groundwater Sample Analytical Results
- Figure 1 - Soil and Groundwater Sampling Location-Yes Cleaners
- Figure 2 - Soil and Groundwater Sampling Location-Giant Cleaners
- Figure 3 - Soil and Groundwater Sampling Location-Westpark Cleaners
- Figure 4 - Soil and Groundwater Sampling Location-Woodbridge Cleaners
- Attachment A - Soil Boring Logs
- Attachment B - Laboratory Reports and Chain of Custody

cc: Mr. William H. Chauncey, C.L.H., Northwestern Mutual Life Insurance Company, Milwaukee, Wisconsin
Ms. Michelle Sronce, Northwestern Mutual Life Insurance Company, Los Angeles, California

PAC:JEH:njm(h:\users\projects.96\96-004\siaear.321)

ANNE MARIE BROWN

Environmental Management Consulting

September 27, 1996

Orange County Health Care Agency
Attn: Mr. Luis Lodrigueza, Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division
2009 E. Edinger Avenue
Santa Ana, California 92705-4720

Subject: ***Request for Clearance - Various Irvine Company Dry-Cleaners***

Dear Luis:

Recently I had a discussion with Kirk Thompson of Environmental Support Technologies (EST) about your conversation with him with respect to three dry-cleaners for which The Irvine Company recently requested site closure via its legal representative, Neal Orloff of Parsons Behle & Latimer. Mr. Orloff is currently on an extended vacation, however, prior to his leaving I discussed with him your comments to Kirk as well as your recent letter response to his initial request. In light of your conversation with Kirk, The Irvine Company wishes to request a clearance letter for the following dry cleaner properties:

- Giant Cleaners
  15331 Culver Drive, Irvine, CA.
- Sunny Fresh Cleaners
  4722 Barranca Parkway, Irvine, CA.
- Westpark Cleaners
  3881 Alton Parkway, Irvine, CA.

The Irvine Company anticipates that these spaces...for the foreseeable future ...will be used as dry cleaners and understands that the clearance letters from Orange County Health Care Agency will be issued in connection with these uses only. Please address your letters to David Fields, V.P., Irvine Retail Properties, 550 Newport Center Drive, Newport Beach, CA. 92658-8904, and send a copy to me and Neal Orloff. Please call me with any questions you may have concerning this request.

Sincerely,

Anne M. Brown

Anne M. Brown, R.E.A. #201

1979 Port Cardigan Place, Newport Beach, CA 92660 (714) 760-8014

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

September 11, 1996

Neil Orloff
Parsons Behle & Latimer
One Utah Center
201 South Main Street, Suite 1800
P. O. Box 45898
Salt Lake City, UT 84145-0898

Subject: Soil Gas Survey Report

Re: Westpark Cleaners
3881 Alton Parkway
Irvine, CA 92714
O.C.H.C.A. Case # 96IC28

Dear Mr. Orloff :

Please be advised that this Agency has reviewed the subject report prepared by your consultant, Environmental Support Technologies, Inc., and found it acceptable in providing preliminary information on the nature of contamination at the above-referenced site. To enable this Agency to more accurately evaluate the effects of this contamination on health, safety and the environment, however, please provide the following additional information:

1. Soil contaminant concentrations at a depth of 6 inches or 1 foot below grade;

2. Soil types and depths beneath the facility;

3. Additional soil sample results to confirm the lateral/vertical extent of contamination.

Assuming a favorable soil type (such as loam or sand), the maximum PCE concentration reportedly detected in a soil sample at a depth of 3 feet below grade--when assessed using this Agency's vapor diffusion model--would result in a health risk greater than the acceptable 1.0 E-06 to exposed workers of the facility. This evaluation could change depending on site specific parameters and thus underscores the importance of site characterization to the risk assessment process. Furthermore, soil and groundwater contaminants aside from PCE would necessarily affect risk calculations to a considerable degree.

It is therefore the position of this office that the requested "clearance" cannot be granted for this case, and that a work plan for additional site investigation has to be submitted to this Agency for review.

If you have any questions regarding this matter, please contact me at (714) 667-3717.

Very truly yours,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Kirk A. Thomson, Environmental Support Technologies, Inc.
William J. Diekmann, O. C. Supervising Hazardous Waste Specialist

SIMPLIFIED VAPOR PATHWAY EVALUATION AND INCREASED CANCER RISK ASSESSMENT CALCULATIONS

SITE: ~~YESCleaners~~ Westpark Cleaners	REVISED 7/96
SITE CONTAMINANT: PCE 3.2 - 3'	DATE: 9/18/96
ANALYSIS BY: Luis Lodrigueza	Lo sd - assumed

SOIL PORE WATER

Soil gas concentration (Csg) = [Contaminant concentration in soil (Ct) / Wet weight soil moisture content (Mwet)] * Henry's Law constant (H)
(Note: When multiple soil layers are used in the flux calculation, be sure the soil characteristic values that are used below are from layer in which the contaminant (source) is located)

Variables	Units	Inputs	Outputs
(Ct) Contaminant conc. in soil (IF NOT USING THE SOIL PORE WATER COMPONENT, INPUT 0)	mg/kg	3.2	
Calculated wet weight soil moisture content (Mwet) = Mdry / 1 + Mdry	gram/gram		7.73E-02
Mwet (Site specific data) (INPUT 0 IF NOT USING)	gram/gram	0	
(H) Henry's Law Constant	Dimensionless	0.943	
Calculated soil moisture by dry weight (Mdry) = Soil moisture by volume (Pw) / Bulk density (Bd)	gram/gram		8.38E-02
Mdry (Site specific data)(INPUT 0 IF NOT USING)	gram/gram	0	
(Pw) Soil moisture by volume, (Use ref. for default value.) (Note: 1 cm^3 water = 1 gram water)	cm^3/cm^3	0.125	
Bulk density (Bd) = Particle density (Pd) - [Pd * Total porosity (Pt)].	g/cm^3		1.49E+00
(Pd) Particle density (Use 2.65 as default value)	g/cm^3	2.65	
(Pt) Total porosity (Use ref. for default values)	cm^3/cm^3	0.437	
Calculated soil gas level	mg/l		3.90E+01
Calculated soil gas level	mg/cm^3		3.90E-02

DISSOLVED IN GROUNDWATER

Soil gas concentration (Csg) = Concentration in groundwater (Cw) * Henry's Law constant (H)

Variables	Units	Inputs	Outputs
(Cw) Conc. in GW (IF NOT USING DISSOLVED IN GROUNDWATER COMPONENT, INPUT 0.)	PPM		
(H) Henry's Law constant	dimensionless	0.225	
Calculated soil gas level	mg/cm^3		0.00E+00

DIRECT MEASUREMENT OF SOIL GAS

Variables	Units	Inputs	Outputs
(Csg) Contaminant soil gas conc. (IF NOT USING DIRECT MEASUREMENT COMPONENT, INPUT 0.)	mg/m^3	0.00E+00	
Spreadsheet unit conversion to mg/cm^3	mg/cm^3		0.00E+00

LIQUID PHASE CONTAMINANT

Conc. of soil gas (Csg) = Vapor pressure (VP)* Mol. Wt. (MW) * Mole fraction (MF) / Universal gas constant (R) * Absolute Temp. (T)

Variables	Units	Inputs	Outputs
(VP) Vapor pressure at 20° C (IF NOT USING THE FREE PRODUCT COMPONENT, INPUT 0)	atm	0	
(MW) Molecular weight	mg/mole		
(MF) Mole fraction	dimensionless		
(R) Universal gas constant	cc-atm/mole-°k	8.21E+01	
(T) Absolute temperature	°K		
Calculated soil gas level	mg/cm^3		0.00E+00

FLUX

Flux (F) = Measured or calculated soil gas level (Csg) / [Vertical length of soil layer between source and surface (or next soil layer that has a dissimilar vapor permeability) (L1) / Diffusion coefficient for soil layer (De1)]+(L2/De2)+...(Ln/Den) (NOTE: If flux for outdoor conc. (Fo) is expected to differ from indoor flux, first calc. outdoor flux and enter results below in outdoor component section, then come back and calc. indoor flux.)

Variables	Units	Inputs	Outputs
(Csg) Soil gas level (Note: Program selected the lowest non-zero Csg from spread sheet for use)	mg/cm^3		3.90E-02
(L1) Vertical length of 1st soil layer between source and surface. INPUT HERE IF 1 LAYER ONLY IN USE.	cm	91	
(L2) Vertical length of 2nd soil layer. (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 0.)	cm	0	
(L3) Vertical length of 3rd soil layer. (IF ONLY TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 0.)	cm	0	
(De1) Effective diffusion coefficient layer 1 = Diff. coefficient in air (Da) * (Air filled porosity layer 1 (Pa1)^3.33 / Total porosity layer 1 (Pt1)^2)	cm^2/sec		7.80E-03
(Da) Diffusion coefficient in air (Use ref for default)	cm^2/sec	0.072	
(Pa1) Air filled porosity, layer 1 = (Pt1) Total porosity layer1-(Pw1) soil moisture by vol. layer 1	dimensionless		3.12E-01
(Pt1) Total porosity layer 1 (Use ref for default)	cm^3/cm^3	0.437	
(Pw1) Soil moisture by volume, layer 1 (Use reference for default value)	cm^3/cm^3	0.125	
De2 = Da * (Pa2^3.33 / Pt2^2)	cm^2/sec		0.00E+00
Pa2 = Pt2 - Pw2	dimensionless		0.00E+00
Pt2 (Use ref. for default value) (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)	dimensionless	1	
Pw2 (Use ref. for default value) (IF ONLY ONE SOIL LAYER IS CONSIDERED, INPUT 1.)	cm^3/cm^3	1	
De3 = Da * (Pa3^3.33 / Pt3^2)	cm^2/sec		0.00E+00
Pa3 = Pt3 - Pw3	dimensionless		0.00E+00
Pt3 (Use ref. for default value) (IF ONLY ONE OR TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 1)	dimensionless	1	
Pw3 (Use ref. for default value)(IF ONLY ONE OR TWO SOIL LAYERS ARE TO BE CONSIDERED, INPUT 1)	cm^3/cm^3	1	
(F) Flux (includes converion to m^2)	mg/sec-m^2		3.34E-02

OUTDOOR AIR COMPONENT

Concentration in outdoor air (Co) = [Outdoor flux (Fo) * Downwind length of contamination (Ld)] / [Wind speed (u) * Height of box (h), e.g., height of doorway or ventilation system intake.](See note in Flux Section regarding Fo)

ENTER 0 IF OUTDOOR AIR COMPONENT IS NOT TO BE USED, 1 IF USED AND Fo = Fi. WHEN Fo ≠ Fi, ENTER CALCULATED Fo. WHEN CALC. Fo ONLY, ENTER 1.	mg/sec-m^2	0	
ENTER 1 IF Fo ≠ Fi, OR 2 IF Fo = Fi, OR CALC. Fo.	mg/sec-m^2	2	3.34E-02
(Ld) Down wind length of contamination	m	1.524	
(u) Wind speed	m/sec	0.013883	
(h) Height of box	m	2.44	
(Co) Concentration in outdoor air	mg/m^3		0.00E+00

CONCENTRATION IN INDOOR AIR

Total conc. in indoor air (Ci) = Conc. in outdoor air (Co)+[Foundation attenuation factor (b) * Flux for area under building (Fu) * Area through which flux occurs (A)] / [Vol. of building (V) * Air exchange rate (E)]

Variables	Units	Inputs	Outputs
(Co) Concentration. in outdoor air	mg/m^3		0.00E+00
(b) Attenuation factor. INPUT 0 IF CALC. Fo ONLY	dimensionless	0.001	
(Fu) Flux for area under building	mg/sec-m^2		3.34E-02
(A) Area through which flux occurs under building	m^2	146	
(V) Volume of building. (INPUT 1 IF CALC. Fo ONLY)	m^3	351	
(E) Exchange rate. (INPUT 1 IF CALC. Fo ONLY)	bldg. vol./sec	1.39E-04	
(Ci) Total indoor air contaminant concentration	mg/m^3		1.00E-01

INTAKE (INHALATION) OF VAPOR PHASE

Intake = Indoor contaminant conc. (Ci) * Daily intake rate (IR) * Exposure time (ET) * Exposure freq. (EF) * Exposure duration (ED)/ Body weight (BW) * Averaging time (AT)

Variables	Units	Inputs	Outputs
ENTER 0 IF SOURCE IS UNDER BUILDING; ENTER 1 IF PAVED AREA DIRECTS VAPORS UNDER BUILDING.	dimensionless	0	
(Ci) Total indoor air contaminant concentration	mg/m^3		1.00E-01
(IR) Daily intake rate (Use ref. for default value)	m^3/day	20	
(ET) Exposure time	hrs/24 hrs	10	4.17E-01
(EF) Exposure freq. (Use ref. for default value)	days/yr	250	
(ED) Exposure duration (Use ref. for default value)	yrs	25	
(BW) Body weight (Use ref. for default value)	kg	70	
(AT) Averaging time	days	2.55E+04	
Intake	mg/kg-day		2.92E-03

EXCESS LIFETIME RISK CALCULATION

EXCESS LIFETIME RISK = SLOPE FACTOR * UNITS OF EXPOSURE

Variables	Units	Inputs	Outputs
Carcinogenic slope factor (Potency factor)	1/mg/kg/day	0.021	
Units of exposure (From Intake calculation above)	mg/kg/day		2.92E-03
Excess Lifetime Cancer Risk	dimensionless		6.13E-05

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

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DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

MAILING ADDRESS:
2009 EAST EDINGER AVENUE
SANTA ANA, CA 92705-4720

TELEPHONE: (714) 667-3600
FAX: (714) 972-0749

August 30, 1996

Neil Orloff
Parsons Behle & Latimer
One Utah Center
210 South Main Street, Suite 1800
P. O. Box 45898
Salt Lake City, UT 84145-0898

Subject: **Request for Oversight**

Re: Westpark Cleaners
3881 Alton Parkway
Irvine, CA 92714
O.C.H.C.A. Case # 96IC28

Dear Mr. Orloff:

Based on evidence received by this Agency, it has been determined that a release of perchloroethylene (PCE) to soil and groundwater has occurred at the location referenced above. According to our records, you or the company you represent has been identified as responsible for the property at which this release occurred. Due to concerns that this release may represent a public health or environmental hazard, this Agency requests that you or your company implement a site investigation to assess the extent and significance of this release; and where necessary take remedial action.

The documentation of this release has become a part of this Agency's records, and as such is now part of the public record. Be advised that in addition to local, state and federal hazardous substance release reporting requirements, any owner of nonresidential real property who knows, or has reasonable cause to believe, that any release of a hazardous substance has come to be located on or beneath that real property shall, prior to sale, lease, or rental of the real property, give written notice of that condition to each buyer, lessee, or renter of the real property. (California Health and Safety Code [H&SC], Division 20, Chapter 6.8, Section 25359.7[a]). Also any lessee or renter of real property who knows or has reasonable cause to believe that any release of a hazardous substance has come or will come to be located on or beneath that real property shall, following its discovery, give written notice of that condition to the owner of the real property or the lessor. (H&SC 25359.7[b]).

This Agency will provide governmental oversight at contaminated sites where State or Federal law does not require oversight by another governmental agency, or where an order to investigate or remediate a site has not already been issued by an empowered State or Federal Agency. You may elect to have this Agency provide oversight at the above referenced site to satisfy possible city or county land use concerns; lender, buyer, lessee, or renter concerns; or your own concerns. Upon the satisfactory completion of a site investigation and any necessary soil remediation, this Agency will write a letter of completion. Where the site investigation reveals a possible threat to groundwater resources, your site will be referred to the appropriate Regional Water Quality Control Board (RWQCB) for review. When

the RWQCB requires soil remedial action you will be requested to submit remedial action plans to both Agencies for review and concurrence.

You may also request governmental oversight from the California's Environmental Protection Agency, Department of Toxic Substances Control (DTSC). This Agency may request that the DTSC review case documentation for the purpose of determining whether mandatory case oversight will be required, when the responsible party does not request voluntary governmental case oversight.

If you choose to seek oversight from this Agency of this site, a per hour service fee will be assessed for the actual time Health Care Agency (HCA) staff expend in overseeing the site investigation and remediation. Per resolution of the County Board of Supervisors, the current site cleanup oversight fee is $123 per hour.

If after considering the above you choose to have this Agency oversee the site investigation and remediation, submit a letter to this office requesting this Agency's oversight and acknowledging that a fee will be charged. Include the name and address of the person to whom Agency bills will be sent.

All required permits must be obtained prior to beginning exploratory borings and construction of wells. All borings and abandoned wells must be properly sealed. Wells should be secured to prevent unauthorized access. For further information regarding required well permits and well abandonment, call (714) 667-3750. Drilling procedures, well design and construction. Design and procedures should be developed by a registered professional (R.G., C.E.G., R.C.E., or equivalent) with expertise in subsurface investigations. Reports that include logs of soil borings or any findings or conclusions relating to subsurface information must be signed by a properly registered professional (R.G., C.E.G., or equivalent).

Site assessment can begin as soon as possible after review and concurrence of the workplan by HCA staff. Be sure to notify this office 48 hours in advance of any site sampling activity.

The next step after completion of the site investigation, is the submittal of a report to HCA for review and concurrence which outlines the findings of the site investigation and presents a proposed remedial action plan. The remedial action plan should be implemented as soon as possible after review and concurrence by HCA staff. After the remedial action plan has been fully implemented, remediation completion will be determined by site sampling overseen by HCA staff.

If you have any questions regarding this matter, please contact me at (714) 667-3717.

Very truly yours,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Management Section
Environmental Health Division

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Greg Holmes, Cleanup Operations, Southern California Branch, DTSC
William J. Diekmann, O. C. Supervising Hazardous Waste Specialist

PARSONS BEHLE & LATIMER

A Professional Law Corporation

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Of Counsel

*Admitted only in New York

August 27, 1996

Mr. Luis Lodrigueza
Hazardous Materials Mitigation Section
Environmental Health Division
County of Orange Health Care Agency
2009 E. Edinger Avenue
Santa Ana, CA 92705

Mr. Kamron Saremi
Staff Engineer
Santa Ana Regional Water Quality Control Board
3737 Main Street
Suite 500
Riverside, California 92501

Re: Westpark Cleaners -- 3881 Alton Parkway

Dear Messrs. Lodrigueza and Saremi:

The Irvine Company recently became aware of very low levels of tetrachlorothene ("PCE") in the soil and groundwater at 3881 Alton Parkway in Irvine, California. This address is the address of Westpark Cleaners, a dry cleaner that is a tenant of The Irvine Company.

The first indication of the PCE arose as a result of routine soil and groundwater sampling. As shown in Table 1 of the enclosed report, the levels of PCE that were detected in the soil ranged from 180 micrograms/kilogram to 560 micrograms/kilogram -- except for a single shallow surface sample that showed a concentration of 3,200 micrograms/kilogram. This surface sample was taken at a depth of 3 feet below the surface. The sample that was

taken at 6 feet below the surface, at the same location, showed a concentration of PCE of 310 micrograms/kilogram. The sample that was taken at 9 feet below the surface, at this same location, showed a concentration of PCE of 260 micrograms/kilogram.

As shown in Table 1, the concentration of PCE that was detected in the groundwater was 8.7 micrograms/liter.

In order to ensure that these low levels of PCE, which were measured at the location of the dry cleaning machine that is on the premises, represented the highest concentrations at the premises, The Irvine Company commissioned a follow-up soil gas survey. The results of the soil gas survey are shown in Table 3 and Figure 5 of the report. Figure 5 confirms that the low levels of PCE are concentrated at the location of the dry cleaning machine and that higher levels of PCE are not present at the premises.

Based on the enclosed site investigation report and the associated data, The Irvine Company wishes to request a "Clearance Letter" from the Orange County Health Care Agency and the Santa Ana Regional Water Quality Control Board.

We understand that your review of the enclosed report and your issuance of a "Clearance Letter" may entail charges for the time expended by your professional staff. The Irvine Company is agreeable to paying these charges. Any invoices for these charges should be sent to me, and I will arrange for their payment.

Thank you for your assistance in connection with this matter.

Sincerely,

Neil Orloff

NO:hmp
Enclosure
cc: David M. Fields, Esq. (w/o enclosure)
Ms. Anne Marie Brown (w/o enclosure)
Mr. John Skillman (w/o enclosure)
Mr. Kirk A. Thompson, R.G., R.E.A. (w/o enclosure)

259356_1

COUNTY OF ORANGE/HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
2009 E. Edinger, Santa Ana, CA 92705
(714) 667-3700

SITE MITIGATION/CLEANUP REPORTING FORM

Case No.: 96 IC 28

Account No.: _____

Date Received: 8-29-96

DBA: Westpark Cleaners

Address: 3881 Alton Parkway

City: (40) Irvine Zip: 92714

Responsible Party: David M. Fields
Irvine Retail Properties Company
550 Newport Center Drive
Newport Beach, CA 92658-6370

Mailing Address: H
One Utah
~~201 So~~
Salt La

Chem ID: 575.W (

How Discovered: 2 Leak Type: 3

Leak Cause: 4 Affected Resources: 7 (Soil + GW)

Remediation Technology (Water): _____

Remediation Technology (Soil): 97- Site assessment only

Amount of contaminated soil taken off-site for treatment: _____ tons

Amount of contaminated soil taken off-site for disposal: _____ tons

How disposed: _____

cc: Debbie Cheng 9/26/96
rev 9/26/97
9/18/97

Completed By: Luis Lodigneza

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

96 IC28

ACTIVITIES REPORT

GW @ 11'bg _ PCE @ 8.7 ug/L.

Company Name: Westpark Cleaners

Address: 3881 Alton Parkway

City: (o) Irvine State: CA Zip: 92714

Contact Person(s): Kirk Thomsom
Anne Marie Brown
Neil Orloff

Phone:

Date	Staff	Activities/Comments
8-27-97	Lodriguez	Prepared closure rationale.
(continued) 8-28-97	Lodriguez	Continued c/o. rationale. Called Kirk T. and requested that he provide copies of reports to Robert Hale and he said he'd consult with Anne Brown.
9-17-97	Lodriguez	Prepared closure letter
9-18-97	Lodriguez	Posted closure letter. Closure protocol: closed case

COUNTY OF ORANGE
ENVIRONMENTAL HEALTH DIVISION
WASTE MANAGEMENT AGENCY

ACTIVITIES REPORT

96 IC 28

Company Name: Westpark Cleaners GW @ ~~4~~ ft bg. measured N'

Address: 3881 Alton Parkway

City: (10) Irvine State: CA Zip: 92714

Contact Person(s): Neil Orloff Phone: (801) 532-1234

Kirk Thomson (714) 457-9664

Anne Brown 760-8014

Date	Staff	Activities/Comments
8-30-96	Luis Lodriguez	Opened case file. Prepared notification form letter: sent in for posting.
9-11-96	Luis Lodriguez	Reviewed Soil Gas Vapor report: ran VRA screening on PCE. Drafted letter response to rpt requesting additional data. Sent to clerical for posting.
10-2-96	Luis Lodriguez	Received letter from Anne Brown re clearance letter from HCA. Soil concentrations of PCE below PRGs, but above SSL of 0.062 mg/kg (@ DAF 20) for g/water protection. Grnd water is already impacted. Excess Lifetime Cancer Risk is above 1.0 E-06, but RP argued that use is to repair a cleaners facility. PCE levels indoor air which are within OSHA limits.
10-21-96	Luis Lodriguez	Called Anne Brown - left message.
11-18-96	Luis Lodriguez	Reviewed case - prepared letter on additional sampler (collective letter)
12-10-96	Luis Lodriguez	Meeting w/ Irvine Co. + consultants. See "96IC27" for subject matter.
12-12-96	Luis Lodriguez	Talked to Neil Orloff and explained that Reg. Board will ~~push~~ through HCA until such point that a major undertaking re g/water is necessary. Neil will consult with Dennis on Grant Cleaners and will work closely with HCA on Westpark (and Savory Fresh).
8-26-97	Lodriguez	Reviewed report of investigation & ran VRA calculations.
8-27-97	Lodriguez	Ran VRA using maximum concentrations; risk still < 1.0E-06. Reg. Bd. will be consulted to determine requirements for both soil & g/water. Talked to Kathryn: he said I could close case and refer it to Reg. Bd. Apparently, cases that would involve oversight of 6 months or more may be absorbed by ~~Kathryn~~ Reg. Bd. Start closure review.

SOIL ASSESSMENT REPORT

WESTPARK CLEANERS
3881 ALTON PARKWAY
IRVINE, CALIFORNIA

Prepared for:

Irvine Retail Properties
550 Newport Center Drive
Newport Beach, California 92660

Prepared by:

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
23011 Moulton Parkway
Suite E-6
Laguna Hills, California 92653
(714) 457-9664
Fax (714) 457-0664

Project EST1378

August 11, 1997

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B. USCS Criteria
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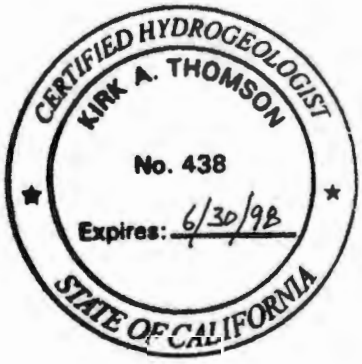
LIMITATIONS AND WARRANTIES

This Soil Assessment Report was prepared by Environmental Support Technologies, Inc. (EST) for the exclusive use of Irvine Retail Properties and assigned interested parties. The services described within this document were performed in accordance with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made.

The information contained in this report was based on measurements performed in specific areas during a specific time period. EST's professional opinions and conclusions are based in part on interpretation of data from discrete sampling or measurement locations that may not represent actual conditions at unsampled or unmeasured locations.

EST assumes no responsibility for issues arising from changes in environmental standards, practices, or regulations subsequent to performance of site assessment work. In the event that any changes occur in waste management practices, site conditions, or uses of the property, the conclusions and recommendations contained in this document should be reviewed and modified or verified in writing by EST. EST does not warrant the accuracy of information supplied by others, nor the use of segregated portions of this document.



Kirk A. Thomson, R.G., C.HG.,R.E.A., M.S
Project Manager/Principal Hydrogeologist

Michael E. Tye
Project Hydrogeologist

August 11, 1997

1.0 INTRODUCTION

This soil assessment report was prepared by Environmental Support Technologies, Inc. (EST), at the request of Irvine Retail Properties (IRP) to describe field procedures and document laboratory analyses results for soil samples collected at Westpark Cleaners (subject site). The subject site is an active dry cleaner and laundry located at 3881 Alton Parkway in Irvine, California. The approximate location of the site is shown in **Figure 1**.

Previous subsurface investigations performed at the subject site by EST and others were summarized in "Soil Gas Survey Report" (EST, August 16, 1996). Recent site investigation and remediation work was performed in accordance with current EPA-recommended methods for the collection, handling, and analyses of environmental samples.

2.0 SCOPE OF WORK

The scope of soil assessment activities performed by EST on July 23, 1997 included the following work elements:

- Underground utilities clearance using geophysical methods;
- Concrete coring at five (5) sampling locations;
- Advancing five (5) continuously-cored soil borings to approximately seven (7) feet below grade;
- Lithologic characterization of geologic materials;
- Collection and field screening of 15 soil samples from the borings;
- Laboratory analyses of 15 soil samples for volatile organic compounds (VOCs) using EPA Method 8010;
- Preparation of this Soil Assessment Report.

3.0 OBJECTIVES OF THE SOIL INVESTIGATION

The objective of the recent soil assessment work was to further evaluate the lateral and limited vertical extent of soils impacted by tetrachloroethene (PCE) in the vicinity of the dry-cleaning machine at the subject site.

4.0 FIELD METHODS AND PROCEDURES

Field methods and procedures are briefly summarized in the following sections.

4.1 ADVANCEMENT AND COMPLETION OF SOIL BORINGS

The approximate locations of the soil borings are shown in **Figure 2**. Locations of the soil borings were selected based on previous soil (Delta Environmental Consultants, March 21, 1996) and soil gas analyses (EST, August 16, 1996). The five soil borings were advanced using hydraulic-push methods; soil cuttings were not generated during the investigation. Discrete soil samples were collected from approximately 1, 3, and 7 feet below grade in each of the borings. After completion of soil sampling, the borings were back-filled using hydrated bentonite chips and completed at grade using concrete.

4.2 SOIL SAMPLE COLLECTION AND HANDLING

The soil samples were collected using an impact-driven soil coring barrel fitted with internal brass soil sample sleeves. Parafilm™ was placed over the ends of the brass sleeves containing soil samples, which were enclosed with plastic end caps and labeled. The soil samples were placed in plastic bags and packed in a cooler containing ice. Soil samples were transported under chain-of-custody procedure to a state-certified analytical laboratory.

4.3 SOIL SAMPLE ANALYSES

A total of 15 soil samples collected from the borings were analyzed for halogenated volatile organic compounds (HVOCs) using EPA Method 8010. The analyses were performed by Sierra Laboratories in Laguna Hills, California (ELAP No. 1805).

4.4 SITE LITHOLOGY

The five soil borings were advanced through the concrete slab of the building. Geologic materials encountered below the concrete slab to total depth of the borings was fine silty-sand with clay (Unified Soil Classification System designation SC). The SC material was very dark-brown (Munsell color 10YR 2/2), well-sorted, and moist. The total depth of each boring was approximately 7.5 feet below grade. Groundwater was not encountered during the soil investigation. Similar lithologic materials were observed in each boring. A boring log is provided in **Appendix A**; USCS criteria are provided in **Appendix B**.

5.0 SOIL SAMPLE ANALYSES RESULTS

Laboratory analyses results for recent and historical soil samples collected at the subject site are summarized in **Table 1**, and are posted in **Figure 3**. Laboratory analyses reports for soil samples collected at the subject site are provided in **Appendix C**. Concentrations of PCE were detected in 13 of 15 soil samples. Analyses results for soil samples are discussed below.

- Concentrations of PCE in soil samples collected from approximately 1 foot below grade ranged from not-detected (ND) to a maximum of 2,600 micrograms per kilogram (µg/Kg) (or parts per billion (ppb)) in soil sample WP-SB1-1.

- Concentrations of PCE detected in soil samples collected from approximately 3 feet below grade ranged from 190 µg/Kg to a maximum of 1,500 µg/Kg in soil sample WP-SB3-3.

- Concentrations of PCE in soil samples collected from approximately 7 feet below grade ranged from ND to a maximum of 550 µg/Kg in soil sample WP-SB2-7.

- Trichloroethene (TCE) was detected at a concentration of 16 µg/Kg in soil sample WP-SB1-1. Concentrations of TCE were not detected above the laboratory method detection limit of 3 µg/L in remaining soil samples.

6.0 CONCLUSIONS

- The site is underlain by fine silty-sand from below the concrete building slab to approximately 7.5 feet below grade. Groundwater was not encountered during soil assessment activities.

- Shallow soil and soil gas assessment work performed by EST and others indicates that soil in the vicinity of the dry-cleaning machine has been impacted by PCE as a result of prior site usage.

- The most elevated concentrations of PCE in soil samples were present at depths ranging from approximately one to three feet below grade.

- Concentrations of PCE in soil samples appear to decrease with increasing depth, with the exception of soil samples collected from Boring WP-SB-2.

The low concentrations of PCE detected at this site are typical of industrial and commercial dry-cleaning facilities. Use of the PCE solvent may produce ambient air vapor concentrations that can permeate the concrete slab floor of the building and migrate into the underlying soil. The lateral and vertical extent of HVOC-impacted soil appears to be adequately assessed to allow an evaluation of soil conditions. EST recommends site closure based on the Orange County Health Care Agency's human health risk assessment model.

REFERENCES

Delta Environmental Consultants, Inc., March 21, 1996. *Subsurface Investigation Addendum to the Environmental Assessment Report* - Prepared for Irvine Company Retail Properties, excerpts include soil and groundwater analyses results.

Environmental Support Technologies, Inc., August 16, 1996. *Soil Gas Survey Report* - Westpark Cleaners Site, 3881 Alton Parkway, Irvine, California.

TABLES

TABLE 1

SUMMARY OF LABORATORY ANALYSES RESULTS FOR SOIL SAMPLES

WESTPARK CLEANERS SITE
3881 ALTON PARKWAY, IRVINE, CALIFORNIA

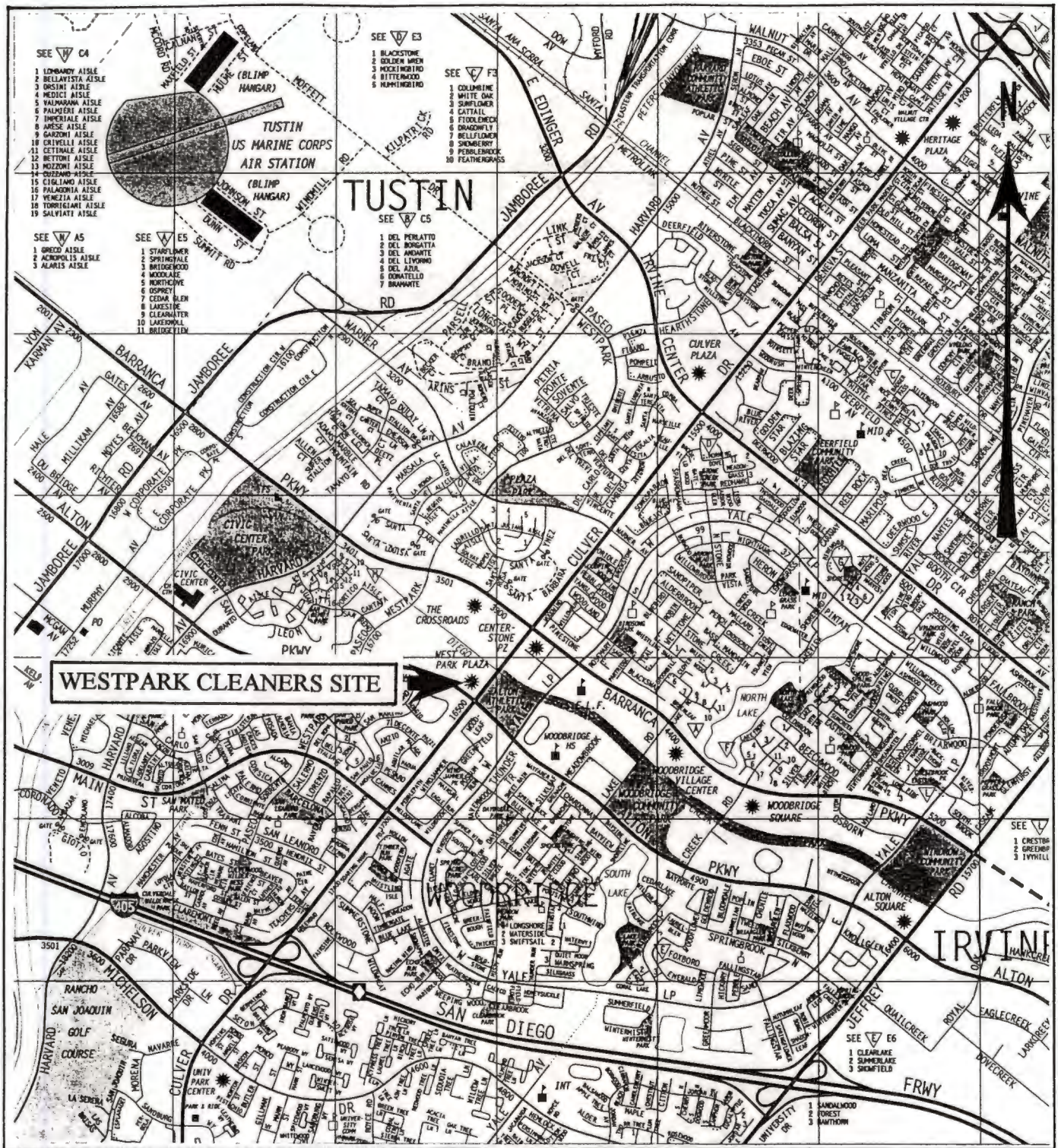
08/07/97 1378 SOIL RESULTS

SAMPLE DATE	SAMPLE IDENTIFICATION	SAMPLE DEPTH (feet)	PCE (ug/Kg)	TCE (ug/Kg)
3/14/96 (Note 1)	WP-A3	3	560	ND
	WP-A6	6	530	ND
	WP-A9	9	180	ND
	WP-B3	3	3,200	ND
	WP-B6	6	310	ND
	WP-B9	9	260	ND
7/23/97 (Note 2)	WP-SB1-1	1	2,600	16
	WP-SB1-3	3	700	ND<3
	WP-SB1-7	7	100	ND<3
	WP-SB2-1	1	210	ND<3
	WP-SB2-3	3	460	ND<3
	WP-SB2-7	7	550	ND<3
	WP-SB3-1	1	950	ND<3
	WP-SB3-3	3	1,500	ND<3
	WP-SB3-7	7	110	ND<3
	WP-SB4-1	1	390	ND<3
	WP-SB4-3	3	1,200	ND<3
	WP-SB4-7	7	49	ND<3
	WP-SB5-1	1	ND<3	ND<3
	WP-SB5-3	3	190	ND<3
	WP-SB5-7	7	ND<3	ND<3

WP = Westpark Cleaners Site
PCE = tetrachloroethene; synonym: perchloroethylene
TCE = trichloroethene
(ug/Kg) = micrograms of compound per kilogram of soil

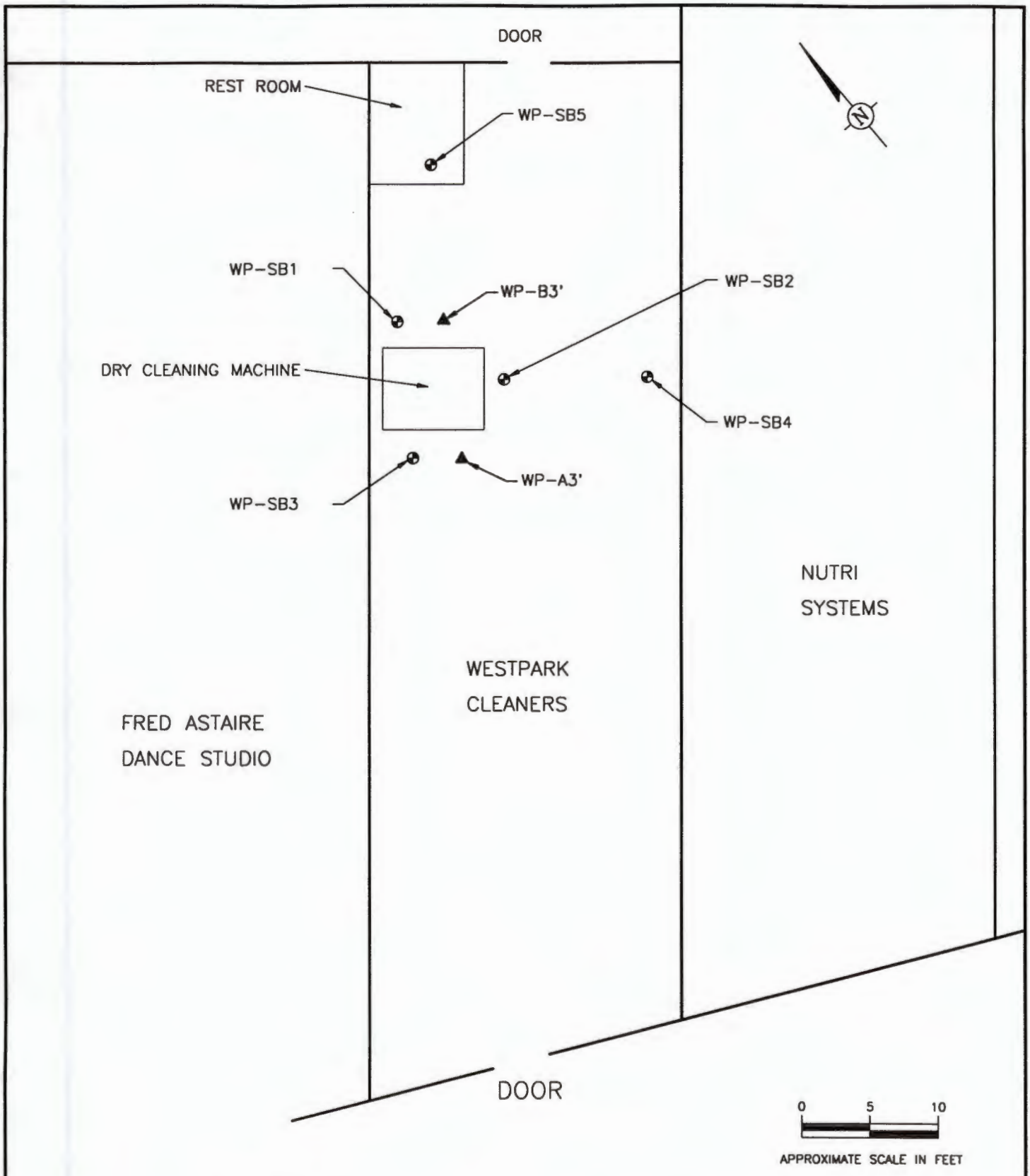
Note 1: Soil samples collected by Delta Environmental, Inc. (March 14, 1996).
Note 2: Soil samples collected by Environmental Support Technologies, Inc. (July 23, 1997).

FIGURES



erside Counties, 1997

FIGURE 1
SITE LOCATION MAP
WESTPARK CLEANERS SITE
SOIL ASSESSMENT REPORT



EXPLANATION

- ⊕ SOIL BORING ADVANCED BY EST (7-23-1997) WITH ASSOCIATED BORING NUMBER AND BORING DEPTH
- ▲ SOIL BORING ADVANCED BY DELTA (3-14-1996) WITH ASSOCIATED BORING NUMBER AND BORING DEPTH

SOURCE OF BASE MAP: ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.

FIGURE 2

APPROXIMATE LOCATIONS OF SOIL BORINGS

WESTPARK CLEANERS / WESTPARK PLAZA
3881 ALTON PARKWAY
IRVINE, CALIFORNIA
EST1378 / SITE ASSESSMENT REPORT

DRAWN BY: JST SCALE: AS SHOWN DATE: 8-4-97

E1378-1A.DWG

Volume	Area	thickness	Max conc. used
12.6 m^3	42 m^2	— 0.30 m	0 – 1 = 2.6 mg/kg
38.22		— 0.91 m	1 – 3 = $\frac{2.6 + 3.2}{2}$ = 2.9 mg/kg (3.2 max)
51.24		— 1.22 m,	3 – 7 = $\frac{2.9 + 0.55}{2}$ = 1.725 mg/kg
		+ 0.91 m.	7 – 9 = $\frac{1.725 + 0.24}{2}$ = 0.99

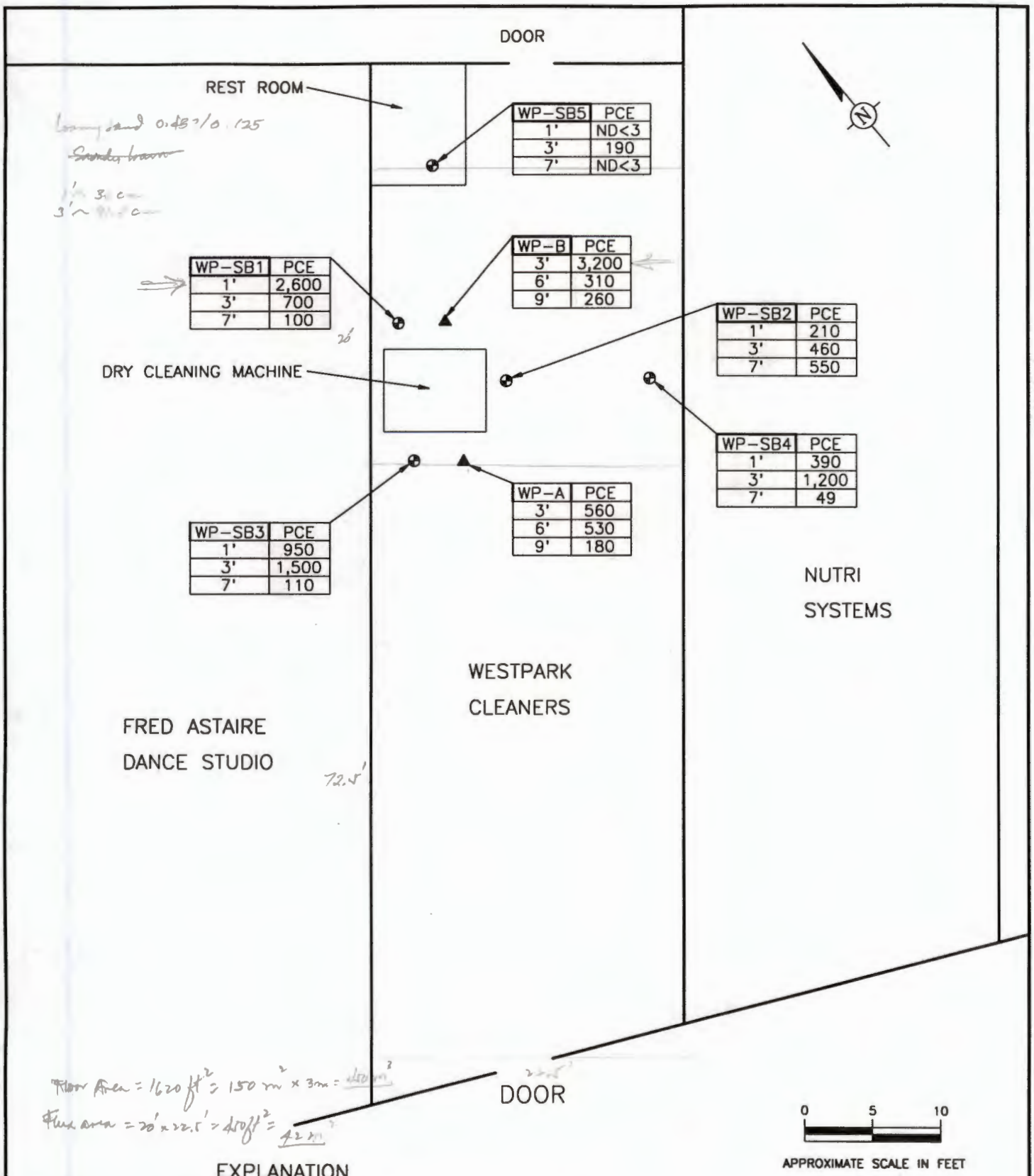
$\frac{3.2 + 0.55}{2}$ = 1.875 mg/kg (max)

Using max conc., risk < 1.0E-06

3 – 9' = 6' = 1.83 m.

× 42 m^2

76.8 m^3



EXPLANATION

- ⊕ SOIL BORING ADVANCED BY EST (7-23-1997) WITH ASSOCIATED BORING NUMBER, BORING DEPTH AND DETECTED CPNCENTRATIONS OF TETRACHLOROETHENE (PCE) IN MICROGRAMS OF COMPOUND PER KILOGRAM OF SOIL
- ▲ SOIL BORING ADVANCED BY DELTA (3-14-1996) WITH ASSOCIATED BORING NUMBER, BORING DEPTH AND DETECTED CPNCENTRATIONS OF TETRACHLOROETHENE (PCE) IN MICROGRAMS OF COMPOUND PER KILOGRAM OF SOIL

SOURCE OF BASE MAP: ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.

FIGURE 3

DETECTED CONCENTRATIONS OF TETRACHLOROETHENE IN SOIL SAMPLES

WESTPARK CLEANERS / WESTPARK PLAZA
3881 ALTON PARKWAY
IRVINE, CALIFORNIA
EST1378 / SITE ASSESSMENT REPORT

DRAWN BY: JST SCALE: AS SHOWN DATE: 8-4-97

E1378-1A.DWG

APPENDICES

Appendix A

SOIL BORING LOG

SOIL BORING LOG

08/05/97 1378 BORING LOG

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.
23011 MOULTON PARKWAY, SUITE E-6
LAGUNA HILLS, CALIFORNIA 92653
(714) 457-9664

PROJECT NAME:	Westpark Cleaners	BORING NUMBER:	WP-SB1
PROJECT No:	EST1378	BORING LOGGED BY:	D. Trenary
DATE:	7/23/97	DRILLING CONTRACTOR:	Environmental Support Technologies, Inc.
BEGIN DRILLING:	3:00 PM	DRILLING METHOD:	2.5-inch-diameter hydraulic-push
END DRILLING:	3:55 PM	SITE LOCATION:	3881 Alton Parkway, Irvine, California

TIME	DEPTH	BLOW COUNTS	PERCENT RECOVERY	TOVs (ppm)	LITHOLOGIC DESCRIPTION	USCS SOIL TYPE	LAB SAMPLE
15:00	0'	N/A	N/A	N/A	Surface = Concrete slab, approximately 4-inches-thick. Commence concrete coring.	N/A	N/A
15:20	1'	N/A	100%	1.9 ppm as isobutylene	Fine sand with silt and clay, very dark-brown (10YR 2/2) well-graded, moist.	SC	EPA 8010 for VOCs
	2'				Fine sand with silt and clay, very dark-brown (10YR 2/2) well-graded, moist.	SC	
15:40	3'	N/A	100%	20.1 ppm as isobutylene	Fine sand with silt and clay, very dark-brown (10YR 2/2) well-graded, moist.	SC	EPA 8010 for VOCs
	4'				Fine sand with silt and clay, very dark-brown (10YR 2/2) well-graded, moist.	SC	
	5'				Fine sand with silt and clay, very dark-brown (10YR 2/2) well-sorted, moist.	SC	
	6'				Fine sand with silt and clay, very dark-brown (10YR 2/2) well-sorted, moist.	SC	
15:55	7'	N/A	100%	15.2 ppm as isobutylene	Fine sand with silt and clay, very dark-brown (10YR 2/2) well-sorted, moist.	SC	EPA 8010 for VOCs
					Total depth of soil boring WP-SB1 approximately 7.5 feet below grade, commence back-filling and surface completion.		

HSA = hollow-stem auger
TOV = total organic vapors
VOCs = volatile organic compounds
EPA 8010 = EPA Method 8010 soil analysis performed
ppm = parts per million

NS = not sampled
USCS = United Soil Classification System
ND = not detected
Archived = soil sample archived at laboratory
N/A = not applicable

1) USCS Classifications are field derived.

2) Color designations are Munsell.

3) Subsurface information from boring logs depict conditions only at specific locations and dates indicated. Soil conditions at other locations may differ from conditions at these locations. Also the conditions at these locations may change with time.

Prepared by Michael Frye

Reviewed by R. A. Thomson

Appendix B

USCS CRITERIA

AGI DATA SHEET 26.1

Unified Soil Classification System

Compiled by B. W. Pipkin, University of Southern California

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE-GRAINED SOILS More than half of material is larger than no. 200 sieve size.	GRAVELS More than half of coarse fraction is larger than no. 4 sieve size.	Clean gravels	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	GM	Silty gravels, gravel-sand-silt mixtures.
			GC	Clayey gravels, gravel-sand-clay mixtures.
	SANDS More than half of coarse fraction is smaller than no. 4 sieve size.	Clean sands	SW	Well-graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands, gravelly sands, little or no fines.
		Sands with fines	SM	Silty sands, sand-silt mixtures.
			SC	Clayey sands, sand-clay mixtures.
FINE-GRAINED SOILS More than half of material is smaller than no. 200 sieve size.	SILTS AND CLAYS	Low liquid limit.	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.
		High liquid limit.	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
Highly organic soils			Pt	Peat and other highly organic silts.

NOTES:

1. Boundary Classification: Soils possessing characteristics of two groups are designated by combinations of group symbols. For example, GW-GC, well-graded gravel-sand mixture with clay binder.
2. All sieve sizes on this chart are U.S. Standard.
3. The terms "silt" and "clay" are used respectively to distinguish materials exhibiting lower plasticity from those with higher plasticity. The minus no. 200 sieve material is silt if the liquid limit and plasticity index plot below the "A" line on the plasticity chart (next page), and is clay if the liquid limit and plasticity index plot above the "A" line on the chart.
4. For a complete description of the Unified Soil Classification System, see "Technical Memorandum No. 3-357," prepared for Office, Chief of Engineers, by Waterways Equipment Station, Vicksburg, Mississippi, March 1953. (See also Data Sheet 17.)

APPENDIX B
USCS CRITERIA
WESTPARK CLEANERS
SOIL ASSESSMENT REPORT

Appendix C

LABORATORY ANALYSES REPORTS FOR SOIL SAMPLES

SIERRA
LABORATORIES

Date 8/1/97

Environmental Support Technologies, Inc.
23011 Moulton Pkwy., Suite E-6
Laguna Hills, CA 92653
Attention: Mr. K. Thomson

Client Project Number:	Westpark Cleaners Irvine
Date Sampled:	7/23/97
Date Samples Received:	7/24/97
Sierra Project No.:	9707-257-A

Attached are the results of the chemo-physical analysis of the sample(s) from the project identified above.

The samples were received by Sierra Laboratories, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analysis were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require additional retaining time, please advise us.

Richard K Forsyth
Richard K. Forsyth
Laboratory Director

RF
Reviewed

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of theclient to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

Environmental Support Technologies, Inc.		**Date Sampled:**	7/23/97
23011 Moulton Pkwy., Suite E-6		**Date Received:**	7/24/97
Laguna Hills, CA 92653		**Date Prepared:**	7/24-7/29/97
		Date Analyzed:	7/24-7/29/97
Sierra Project No.:	9707-257-A	**Analyst:**	SM
Client Project ID:	Westpark Cleaners Irvine		
Sample Matrix:	Soil	**Report Date:**	8/1/97

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

	Concentration, µg/kg				
Client Sample No.:	WP SB4-1	WP SB4-3	WP SB4-7	WP SB5-1	**Method Detection Limit, µg/kg**
Sierra Sample No.:	12291	12292	12293	12294	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3
Bromoform	ND	ND	ND	ND	3
Chloroform	ND	ND	ND	ND	3
Chlorodibromomethane	ND	ND	ND	ND	3
Bromomethane	ND	ND	ND	ND	3
Carbon Tetrachloride	ND	ND	ND	ND	3
Chlorobenzene	ND	ND	ND	ND	3
Chloroethane	ND	ND	ND	ND	3
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3
1,2-Dichlorobenzene	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	3
1,1-Dichloroethane	ND	ND	ND	ND	3
1,2-Dichloroethane	ND	ND	ND	ND	3
1,1-Dichloroethylene	ND	ND	ND	ND	3
1,2 Dichloroethylene (T)	ND	ND	ND	ND	3
1,2-Dichloropropane	ND	ND	ND	ND	3
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3
1,3-Dichloropropane (T)	ND	ND	ND	ND	3
Methylene Chloride	ND	ND	ND	ND	3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3
Tetrachloroethylene	390*	1200	49	ND	3
1,1,1-Trichloroethane	ND	ND	ND	ND	3
1,1,2-Trichloroethane	ND	ND	ND	ND	3
Trichloroethylene	ND	ND	ND	ND	3
Trichlorofluoromethane	ND	ND	ND	ND	3
Vinyl Chloride	ND	ND	ND	ND	3
Dilution Factor	1, 50*	1, 100*	1	1	**QC Limits**
% Surrogate Recovery: 1-chloro-2-fluorobenzene	98	95	88	96	30-135

Quality Assurance/Quality Control Data

QC Sample ID: 9707-034-12638

Compounds	**LCS % Rec.**	**QC Limits**	**Spike % Rec.**	**Spike Dup % Rec.**	**QC Limits**	**RPD**	**QC Limits**
1,1 - Dichloroethane	106	80-120	62	60	59-111	3.9	0-30
Carbon Tetrachloride	100	80-120	102	103	55-120	1.2	0-30
Bromoform	95	80-120	104	102	54-127	1.9	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

Environmental Support Technologies, Inc.		**Date Sampled:**	7/23/97
23011 Moulton Pkwy., Suite E-6		**Date Received:**	7/24/97
Laguna Hills, CA 92653		**Date Prepared:**	7/24-7/29/97
		Date Analyzed:	7/24-7/29/97
Sierra Project No.:	9707-257-A	**Analyst:**	SM
Client Project ID:	Westpark Cleaners Irvine		
Sample Matrix:	Soil	**Report Date:**	8/1/97

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

	Concentration, µg/kg				
Client Sample No.:	WP SB5-3	WP SB5-7	WP SB1-1	WP SB1-3	**Method Detection Limit, µg/kg**
Sierra Sample No.:	12295	12296	12297	12298	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3
Bromoform	ND	ND	ND	ND	3
Chloroform	ND	ND	ND	ND	3
Chlorodibromomethane	ND	ND	ND	ND	3
Bromomethane	ND	ND	ND	ND	3
Carbon Tetrachloride	ND	ND	ND	ND	3
Chlorobenzene	ND	ND	ND	ND	3
Chloroethane	ND	ND	ND	ND	3
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3
1,2-Dichlorobenzene	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	3
1,1-Dichloroethane	ND	ND	ND	ND	3
1,2-Dichloroethane	ND	ND	ND	ND	3
1,1-Dichloroethylene	ND	ND	ND	ND	3
1,2 Dichloroethylene (T)	ND	ND	ND	ND	3
1,2-Dichloropropane	ND	ND	ND	ND	3
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3
1,3-Dichloropropane (T)	ND	ND	ND	ND	3
Methylene Chloride	ND	ND	ND	ND	3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3
Tetrachloroethylene	190	ND	2600*	700*	3
1,1,1-Trichloroethane	ND	ND	ND	ND	3
1,1,2-Trichloroethane	ND	ND	ND	ND	3
Trichloroethylene	ND	ND	16	ND	3
Trichlorofluoromethane	ND	ND	ND	ND	3
Vinyl Chloride	ND	ND	ND	ND	3
Dilution Factor	1	1	1, 100*	1, 50*	**QC Limits**
% Surrogate Recovery: 1-chloro-2-fluorobenzene	85	82	97	96	30-135

Quality Assurance/Quality Control Data

QC Sample ID: 9707-034-12638

Compounds	**LCS % Rec.**	**QC Limits**	**Spike % Rec.**	**Spike Dup % Rec.**	**QC Limits**	**RPD**	**QC Limits**
1,1 - Dichloroethane	106	80-120	62	60	59-111	3.9	0-30
Carbon Tetrachloride	100	80-120	102	103	55-120	1.2	0-30
Bromoform	95	80-120	104	102	54-127	1.9	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

Environmental Support Technologies, Inc.		**Date Sampled:**	7/23/97
23011 Moulton Pkwy., Suite E-6		**Date Received:**	7/24/97
Laguna Hills, CA 92653		**Date Prepared:**	7/24-7/29/97
		Date Analyzed:	7/24-7/29/97
Sierra Project No.:	9707-257-A	**Analyst:**	SM
Client Project ID:	Westpark Cleaners Irvine		
Sample Matrix:	Soil	**Report Date:**	8/1/97

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

	Concentration, µg/kg				
Client Sample No.:	WP SB1-7	WP SB2-1	WP SB2-3	WP SB2-7	**Method Detection Limit, µg/kg**
Sierra Sample No.:	12299	12300	12301	12302	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3
Bromoform	ND	ND	ND	ND	3
Chloroform	ND	ND	ND	ND	3
Chlorodibromomethane	ND	ND	ND	ND	3
Bromomethane	ND	ND	ND	ND	3
Carbon Tetrachloride	ND	ND	ND	ND	3
Chlorobenzene	ND	ND	ND	ND	3
Chloroethane	ND	ND	ND	ND	3
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3
1,2-Dichlorobenzene	ND	ND	ND	ND	3
1,3-Dichlorobenzene	ND	ND	ND	ND	3
1,4-Dichlorobenzene	ND	ND	ND	ND	3
1,1-Dichloroethane	ND	ND	ND	ND	3
1,2-Dichloroethane	ND	ND	ND	ND	3
1,1-Dichloroethylene	ND	ND	ND	ND	3
1,2 Dichloroethylene (T)	ND	ND	ND	ND	3
1,2-Dichloropropane	ND	ND	ND	ND	3
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3
1,3-Dichloropropane (T)	ND	ND	ND	ND	3
Methylene Chloride	ND	ND	ND	ND	3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3
Tetrachloroethylene	100	210	460	550*	3
1,1,1-Trichloroethane	ND	ND	ND	ND	3
1,1,2-Trichloroethane	ND	ND	ND	ND	3
Trichloroethylene	ND	ND	ND	ND	3
Trichlorofluoromethane	ND	ND	ND	ND	3
Vinyl Chloride	ND	ND	ND	ND	3
Dilution Factor	1	1	1	1, 50*	**QC Limits**
% Surrogate Recovery: 1-chloro-2-fluorobenzene	84	90	87	97	30-135

Quality Assurance/Quality Control Data

QC Sample ID: 9707-034-12638

Compounds	**LCS % Rec.**	**QC Limits**	**Spike % Rec.**	**Spike Dup % Rec.**	**QC Limits**	**RPD**	**QC Limits**
1,1 - Dichloroethane	106	80-120	62	60	59-111	3.9	0-30
Carbon Tetrachloride	100	80-120	102	103	55-120	1.2	0-30
Bromoform	95	80-120	104	102	54-127	1.9	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

Environmental Support Technologies, Inc.		**Date Sampled:**	7/23/97
23011 Moulton Pkwy., Suite E-6		**Date Received:**	7/24/97
Laguna Hills, CA 92653		**Date Prepared:**	7/24-7/29/97
		Date Analyzed:	7/24-7/29/97
Sierra Project No.:	9707-257-A	**Analyst:**	SM
Client Project ID:	Westpark Cleaners Irvine		
Sample Matrix:	Soil	**Report Date:**	8/1/97

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

	Concentration, µg/kg				
Client Sample No.:	WP SB3-1	WP SB3-3	WP SB3-7		**Method Detection Limit, µg/kg**
Sierra Sample No.:	12303	12304	12305		
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND		3
Bromoform	ND	ND	ND		3
Chloroform	ND	ND	ND		3
Chlorodibromomethane	ND	ND	ND		3
Bromomethane	ND	ND	ND		3
Carbon Tetrachloride	ND	ND	ND		3
Chlorobenzene	ND	ND	ND		3
Chloroethane	ND	ND	ND		3
2-Chloroethylvinyl Ether	ND	ND	ND		3
1,2-Dichlorobenzene	ND	ND	ND		3
1,3-Dichlorobenzene	ND	ND	ND		3
1,4-Dichlorobenzene	ND	ND	ND		3
1,1-Dichloroethane	ND	ND	ND		3
1,2-Dichloroethane	ND	ND	ND		3
1,1-Dichloroethylene	ND	ND	ND		3
1,2 Dichloroethylene (T)	ND	ND	ND		3
1,2-Dichloropropane	ND	ND	ND		3
1,3-Dichloropropane (CIS)	ND	ND	ND		3
1,3-Dichloropropane (T)	ND	ND	ND		3
Methylene Chloride	ND	ND	ND		3
1,1,2,2-Tetrachloroethane	ND	ND	ND		3
Tetrachloroethylene	950*	1500*	110		3
1,1,1-Trichloroethane	ND	ND	ND		3
1,1,2-Trichloroethane	ND	ND	ND		3
Trichloroethylene	ND	ND	ND		3
Trichlorofluoromethane	ND	ND	ND		3
Vinyl Chloride	ND	ND	ND		3
Dilution Factor	1, 50*	1, 50*	1		**QC Limits**
% Surrogate Recovery: 1-chloro-2-fluorobenzene	95	77	84		30-135

Quality Assurance/Quality Control Data

QC Sample ID: 9707-034-12638

Compounds	**LCS % Rec.**	**QC Limits**	**Spike % Rec.**	**Spike Dup % Rec.**	**QC Limits**	**RPD**	**QC Limits**
1,1 - Dichloroethane	106	80-120	62	60	59-111	3.9	0-30
Carbon Tetrachloride	100	80-120	102	103	55-120	1.2	0-30
Bromoform	95	80-120	104	102	54-127	1.9	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

9707.257A

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.

West Coast Operations
23011 Moulton Parkway, Suite E-6
Laguna Hills, California 92653
(714) 457-9664
FAX (714) 457-0664

East Coast Operations
P.O. Box 540
Cold Spring Harbor, New York 11724
(516) 395-5746
FAX (516) 395-3741

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Client Name/Address:
Environmental Support Technologies
23011 Moulton Pkwy Suite E-6
Laguna Hills CA 92653

Project:
West Pane Cleaners
Irvine

Project Manager:
K Thomson

Sampler:
D. Trenary

ANALYSIS REQUIRED

Sample Description	Sample matrix	Container type	# of Containers	Sampling Date/Time	Preservative Type	EPA Method 8010					Special Instructions
WP SB4-1	Soil	1.5x6 Brass	1	7-23-97	4°C	X		11291			
WP SB4 3			1	7-23-97		X		12292			
WP SB4 7			1	7-23-97		X		12293			hold
WP SB-5 1			1	7-23-97		X		12294			
WP SB5 3			1	7-23-97		X		12295			
WP SB5 7			1	7-23-97		X		12296			hold

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (check)
	7-24-97		7/24/97	same day ____ 48 hours ____ normal X
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____ 72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	Sample Integrity: (check) intact X cooled X warm ____

SL# 9707-257A

ENVIRONMENTAL SUPPORT TECHNOLOGIES, INC.

West Coast Operations
23011 Moulton Parkway, Suite E-6
Laguna Hills, California 92653
(714) 457-9664
FAX (714) 457-0664

East Coast Operations
P.O. Box 540
Cold Spring Harbor, New York 11724
(516) 395-5746
FAX (516) 395-3741

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Client Name/Address:
Environmental Support Technologies
23011 Moulton Pkwy Suite E-6
Laguna Hills CA 92653

Project:
West Park
Cleaners
Irvine

Project Manager:
K. Thomson

Sampler:
D Trenary

ANALYSIS REQUIRED

Sample Description	Sample matrix	Container type	# of Containers	Sampling Date/Time	Preservative Type	EPA method 8010					Special Instructions
WP SB1 - 1	Soil	1.5 x 6 Brass	1	7-23-97	4°	X		12297			
WP SB1 - 3			1	7-23-97		X		12298			
WP SB1 - 7			1	7-23-97		X		12299			hold
WP SB2 - 1			1	7-23-97		X		12300			
WP SB2 - 3			1	7-23-97		X		12301			
WP SB2 - 7			1	7-23-97		X		12302			hold
WP SB3 - 1			1	7-23-97		X		12303			
WP SB3 - 3			1	7-23-97		X		12304			
WP SB3 - 7			1	7-23-97		X		12305			hold

Relinquished By:	Date/Time:	Received By:	Date/Time:
	7-24-97		7/24/97
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

Turnaround Time: (check)
same day ____ 48 hours ____ normal X
24 hours ____ 72 hours ____

Sample Integrity: (check)
intact X cooled X warm ____

SOIL GAS SURVEY REPORT

WESTPARK CLEANERS SITE
3881 ALTON PARKWAY
IRVINE, CALIFORNIA

Prepared for:

Irvine Retail Properties
550 Newport Center Drive
Newport Beach, California 92660

Prepared by:

Environmental Support Technologies, Inc.
23011 Moulton Parkway
Suite E-6
Laguna Hills, California 92653

Project No. EST1378

August 16, 1996

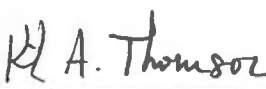
LIMITATIONS AND WARRANTIES

This Soil Gas Survey Report has been prepared for the exclusive use of Irvine Retail Properties and assigned interested parties. The report has been prepared in accordance with generally accepted environmental assessment practices. No other warranty, expressed or implied, is made.

The information provided in this report is based on measurements performed in specific areas during a specific limited period of time. In the event that any changes occur in waste management practices, site conditions, or uses of the property, the conclusions and recommendations contained in this Soil Gas Survey Report should be reviewed and modified or verified in writing by Environmental Support Technologies, Inc. (EST).

Soil gas sample analyses are conducted using laboratory-grade gas chromatography equipment. Chemical compound identification is performed using quantitative methods. Chemical compound identities should be verified using gas chromatography/ mass spectrometric analyses methods. Soil gas survey data should be used in conjunction with other site specific data.

There is no investigation which is thorough enough to absolutely exclude the presence of hazardous material at the project site. Therefore, if none are identified as part of a limited investigation, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of an investigation. EST, despite the use of reasonable care and a commitment to professional excellence, may not identify the presence of hazardous materials and hazardous compound concentrations in soil, soil gas, and/or groundwater. EST assumes no responsibility for conditions not investigated or for conditions not generally recognized as environmentally unacceptable, at the time of the investigation.



Kirk A. Thomson, R.G., R.E.A., C.HG.
Project Manager/Principal Hydrogeologist

1.0 INTRODUCTION

On July 5, 1996, Environmental Support Technologies, Inc. (EST), at the request of Irvine Retail Properties (IRP), performed a soil gas survey at the Westpark Cleaners site located at 3881 Alton Parkway in Irvine, California. The soil gas survey included the installation of fifteen (15) 5-foot soil gas sampling probes. Soil gas samples were collected and analyzed on-site for volatile organic compounds including halogenated and aromatic hydrocarbons. This soil gas survey report was prepared based on soil gas analyses data collected during the survey.

A previous subsurface investigation, performed by Delta Environmental Consultants (Delta, March 21, 1996), included the collection and analysis of six (6) soil samples and one (1) groundwater sample. Detected concentrations of volatile organic compounds (VOCs) in samples collected by Delta are summarized in Table 1 and shown in Figure 1. Groundwater was reported by Delta to be 9.17 feet below ground surface.

2.0 OBJECTIVES OF THE SOIL GAS SURVEY

The objectives of the soil gas survey were to:

- Aid in identifying potential vadose zone source areas of VOCs including halogenated and aromatic hydrocarbons.
- Assess the lateral extent of VOCs in surficial soils.

Soil gas sampling is a monitoring technique for the presence of VOCs in soil and should be used in conjunction with other site-specific data. Soil gas sampling is limited in its applications depending on site conditions. Some factors affecting the distribution of VOCs in the subsurface are listed in Appendix A.

3.0 RATIONALE FOR THE LOCATIONS OF SAMPLING SITES

The approximate locations of soil gas probes installed at the Westpark Cleaners site are shown in Figure 2. The locations of soil gas probes were selected to assess the lateral extent of VOCs in surficial soils. Probe locations were cleared of underground utilities by a professional utilities clearance company.

4.0 METHODS AND PROCEDURES

Field methods and procedures used to perform the soil gas survey are described in this section. The soil gas survey was performed in general accordance with the Los Angeles Regional Water Quality Control Board's (LARWQCB) "Interim Guidelines for Active Soil Gas Investigation" dated March 14, 1996.

4.1 SOIL GAS PROBE INSTALLATION AND COMPLETION

Construction of a typical soil gas sampling probe is shown in Figure 3. Soil gas probes were installed using either a percussion-hammer or hydraulic-ram. Once a probe was installed to the desired depth, the hollow probe drive-rod was withdrawn, leaving the stainless steel probe point and Nylaflow™ sampling tube in the subsurface. Silica sand was poured around the probe tip to allow for diffusion of soil vapors. The remaining annulus was filled with hydrated bentonite/cement slurry to grade. The probe point and sampling tube assembly were left in place (dedicated) as a long-term soil gas monitoring point. The sampling tube was plugged with a stainless-steel machine-screw, folded over, and pushed down-hole until slightly below grade. The remaining depression was filled with concrete patch material and finished flush with surrounding paving material.

4.2 SOIL GAS SAMPLE COLLECTION AND HANDLING

Soil gas samples were collected using the soil gas sampling system shown in Figure 4. The soil gas sampling system was constructed of stainless-steel, glass, Nylaflow™, and Teflon™ components. Instrumentation associated with the sampling system included a calibrated flow-meter and vacuum gage. Vacuum integrity of the sampling system was tested prior to, and after the soil gas survey using leak-down testing methods. The soil gas sampling system and instrumentation were operating as required on both occasions. Soil gas sampling probes were purged at a flow of approximately 100 milliliters per minute (ml/min).

A site-specific probe purge volume versus sample concentration test was initially performed to evaluate the appropriate volume of gas to be purged from each probe prior to sample collection. Time-series sampling of at least one probe was conducted to evaluate trends in soil gas concentrations as a function of purge volume. After purging, soil gas samples were withdrawn from the sample stream using a glass syringe fitted with a disposable needle and Mininert™ gas-tight valve. Soil gas samples were immediately injected into a gas chromatograph (GC) after collection.

4.3 SOIL GAS SAMPLE ANALYSES (HALOGENATED AND AROMATIC HYDROCARBONS)

Soil gas samples were analyzed in the field using a mobile laboratory equipped with a Varian™-3400 GC configured with a photo-ionization detector (PID) and an electrolytic conductivity detector (ELCD) placed in series. The GC-PID/ELCD was used to analyze soil gas samples using a method similar to EPA Method 8010/8020. The detection limits for 8010/8020 compound analyses were one microgram per liter (μg/L).

4.4 SURROGATE COMPOUNDS

One early eluting and one middle eluting surrogate compound was added to all analyzed samples. Surrogate compound concentrations were within the initial calibration range. The percent recovery of the surrogate compounds were calculated and reported with soil gas sample analyses results. The acceptance goal for surrogate compound recovery is +/- 25 percent difference from the true concentration of the surrogate compounds. Surrogate compounds added to each sample analyses run included bromochloromethane (ELCD) and chlorobenzene (PID and ELCD), each at a true concentration of 5,000 μg/L.

4.5 INITIAL MULTI-POINT EQUIPMENT CALIBRATION

A summary of the Quality Assurance/Quality Control (QA/QC) analyses is presented in Table 1. The GC-PID/ELCD used for soil gas analyses was calibrated using high-purity solvent-based standards obtained from certified vendors. GC-PID/ELCD calibration standards were prepared in high-purity methanol solvent. GC-PID/ELCD calibration using solvent-based standards was performed using varying injection volumes of the undiluted solvent-based standard. If necessary, stock solvent-based standards were diluted to an appropriate concentration. Diluted standards were prepared by introducing a known volume of stock solvent-based standard into a known volume of high-purity solvent.

Initial calibration was performed for 25 target compounds. The GC-PID/ELCD was calibrated using three standard injections to establish a three-point calibration curve. The lowest standard was not higher than five times the method detection limit (or 5 μg/L). The percent relative standard deviation (%RSD) of the response factor(RF) for each target compound did not exceed 20 percent except for trichlorofluoromethane (Freon™-11), dichlorodifluoromethane (Freon™-12), 1,1,2-trichloro-trifluoroethane (Freon™-113), chloroethane (CE), and vinyl chloride (VC), which did not exceed 30 %RSD. Identification and quantitation of compounds in the field was based on calibration under the same analytical conditions as for three-point calibration.

4.6 LABORATORY CONTROL SAMPLE

A laboratory control sample (LCS) from a different source or lot number other than the initial calibration standard was used to verify the true concentration of the initial calibration standard. The LCS included LARWQCB target compounds, and the RF for each compound was within 15 percent of the initial calibration.

4.7 DAILY MID-POINT CALIBRATION CHECK

Daily field calibration of the GC-PID/ELCD consisted of a mid-point calibration using a standard containing 14 target compounds. The daily mid-point calibration check included the 12 target compounds specified in LARWQCB requirements dated March 1996. The RF of each compound (except for Freon™ -11, -12, and -113, CE, and VC) was within 15 percent of the average RF from the initial calibration. The RF for Freon™ -11, -12, and -113, CE, and VC were within 25 percent of the initial calibration. If these criteria were not met, the GC-PID/ELCD was recalibrated. Daily calibration was performed prior to the first soil gas sample analysis of the day. One-point calibration was performed for all compounds detected at the site to ensure accurate quantitation. Subsequent calibration episodes, if deemed necessary, consisted of at least one injection of the standard exhibiting a similar detector response as that of samples encountered in the field.

4.8 BLANK INJECTIONS

The syringes used for soil gas sample collection were periodically filled with ambient air or high-purity carrier-grade gas from a compressed gas cylinder. The ambient air or high-purity gas was injected directly into the gas chromatograph. The blank injections served to detect potential cross-contamination of the sampling equipment and to verify the effectiveness of decontamination procedures.

4.9 END OF DAY GC TEST RUN

A LCS was analyzed at the end of each field day. The LCS contained the same compounds as the daily mid-point calibration standard (minimum of 12 compounds). The LCS was procured from a source other than the initial multi-point calibration standard. The RF for each LCS compound was within 20 percent of the average RF for the initial calibration. If these criteria were not met, additional LCSs were analyzed.

4.10 DECONTAMINATION PROCEDURES

Probe installation and sampling equipment in contact with site soil or soil gas sample streams were decontaminated prior to collection of each soil gas sample. Decontamination of probe installation equipment was performed by immersion and scrubbing in Alconox™ detergent solution, rinsing in tap-water, rinsing in VOC-free water, followed by air drying. Decontamination of soil gas sampling equipment was performed by baking at elevated temperatures (<160° Celsius) inside the GC oven.

4.11 REPORTING OF SAMPLE RESULTS AND QA/QC INFORMATION

Reporting of sample analyses results and QA/QC information is in general accordance with the Los Angeles Regional Water Quality Control Board's "Interim Guidance for Active Soil Gas Investigation" dated March 14, 1996.

5.0 SOIL GAS SURVEY RESULTS

Soil gas samples collected at the Westpark Cleaners site contained concentrations of halogenated hydrocarbons. A summary of field analyses reports is provided in Table 3. Field analyses reports, GC-PID/ELCD calibration data, and method detection limits for halogenated and aromatic hydrocarbons are provided in Appendix B.

5.1 DETECTED HALOGENATED HYDROCARBONS

The halogenated hydrocarbon detected at the Westpark Cleaners site was tetrachloroethene (PCE). Detected concentrations of PCE are shown in Figure 5.

TETRACHLOROETHENE (PCE)

Concentrations of PCE were detected in 8 of 15 sampled soil gas probes. Detected concentrations of PCE ranged from 4 μg/L in Probes SG4-5, SG9-5, and SG13-5 to 419 μg/L in Probe SG14-5. Soil gas concentrations of PCE detected in Probes SG10 and SG14 may be different, in part, due to differences in lithology at these two locations.

REFERENCES

Delta Environmental Consultants, Inc. March 21, 1996, "Subsurface investigation Addendum to the Environmental Assessment Report". Prepared for Irvine Company Retail Properties. Excerpts include soil and groundwater analyses results.

TABLES

Table 1

SUMMARY OF FIELD ANALYSES RESULTS FOR SOIL AND GROUNDWATER SAMPLES

(COLLECTED BY DELTA ENVIRONMENTAL CONSULTANTS)

WESTPARK CLEANERS
3881 ALTON PARKWAY
IRVINE, CALIFORNIA

07/31/96 File: 1378T1.WK3

SOIL SAMPLES

SAMPLE NUMBER	DATE OF SAMPLING	SAMPLE DEPTH (ft)	PCE (ug/Kg)	BDCM (ug/Kg)	CF (ug/Kg)	DBCM (ug/Kg)
WP–A3'	03/14/96	3	560	ND	ND	ND
WP–A6'	03/14/96	6	530	ND	ND	ND
WP–A9'	03/14/96	9	180	ND	ND	ND
WP–B3'	03/14/96	3	3,200	ND	ND	ND
WP–B6'	03/14/96	6	310	ND	ND	ND
WP–B9'	03/14/96	9	260	ND	ND	ND

GROUNDWATER SAMPLES

SAMPLE NUMBER	DATE OF SAMPLING	SAMPLE DEPTH (ft)	PCE (ug/L)	BDCM (ug/L)	CF (ug/L)	DBCM (ug/L)
WP–W	03/14/96	9.17	8.7	1.4	1.3	1.0

ft = feet below grade
ug/Kg = microgram per kilogram
ug/L = microgram per Liter
PCE = Tetrachloroethene
BDCM = Bromodichloromethane
CF = Chloroform
DBCM = Dibromochloromethane
ND = Not Detected

TABLE 2

SUMMARY OF
QUALITY ASSURANCE/QUALITY CONTROL ANALYSES
FOR SOIL GAS SURVEYS

CALIBRATION AND LABORATORY CONTROL SAMPLES		
DESCRIPTION	FREQUENCY	PRECISION GOAL %RSD or %DIFF
INITIAL THREE–POINT CALIBRATION (25 Target Compounds)	At the beginning of the soil gas survey, unless the RPDs of the initial laboratory check sample or daily mid–point calibration check samples exceed their goals.	20–30 (1)
INITIAL LABORATORY CONTROL SAMPLE (LCS) (25 Target Compounds)	At the beginning of the survey, following the initial three–point calibration.	15 (2)
DAILY MID–POINT CALIBRATION CHECK (12 Target Compounds)	At the beginning of each day.	15 (3) 25 (3)
LAST GC TEST RUN (12 Target Compounds)	At the end of each day.	20 (4)
FIELD CONTROL SAMPLES		
DESCRIPTION	FREQUENCY	PRECISION GOAL
BACKGROUND SAMPLE (5)	Minimum one per day.	N/A
SYRINGE BLANK (5)	Minimum one per day.	N/A

%RSD = Percent Relative Standard Deviation calculated based on the initial three–point calibration.
%DIFF = Percent Difference between the response factor obtained from the LCS, the daily mid–point calibration, or the last GC test run and the average response factor initially calculated based on the three–point calibration.
N/A = Not applicable.
(1) The %RSD goal for the initial three–point calibration will be 20 percent for all compounds except for Freon 11, Freon 12, Freon 113, chloroethane, and vinyl chloride for which the %RSD goal is 30 percent.
(2) The %DIFF goal for the LCS will be 15 percent for all target compounds.
(3) The %DIFF goal for the daily mid–point calibration check will be 15 percent for all compounds except for Freon 11, Freon 12, Freon 113, chloroethane, and vinyl chloride for which the %DIFF goal is 25 percent.
(4) The %DIFF goal for the last GC test run will be 20 percent for all compounds except for Freon 11, Freon 12, Freon 113, chloroethane, and vinyl chloride for which the %DIFF goal is 30 percent.
(5) A syringe/background sample will be analyzed using ambient air. If volatile organic compounds (VOCs) are not detected, the ambient air sample will represent the background sample and syringe blank. If VOCs are detected in the ambient air sample, a syringe blank will be analyzed using ultra–high–purity helium or nitrogen gas.

C:\123R3\SGSOPTB1.WK3

Table 3

SUMMARY OF FIELD ANALYSES RESULTS FOR SOIL GAS SAMPLES

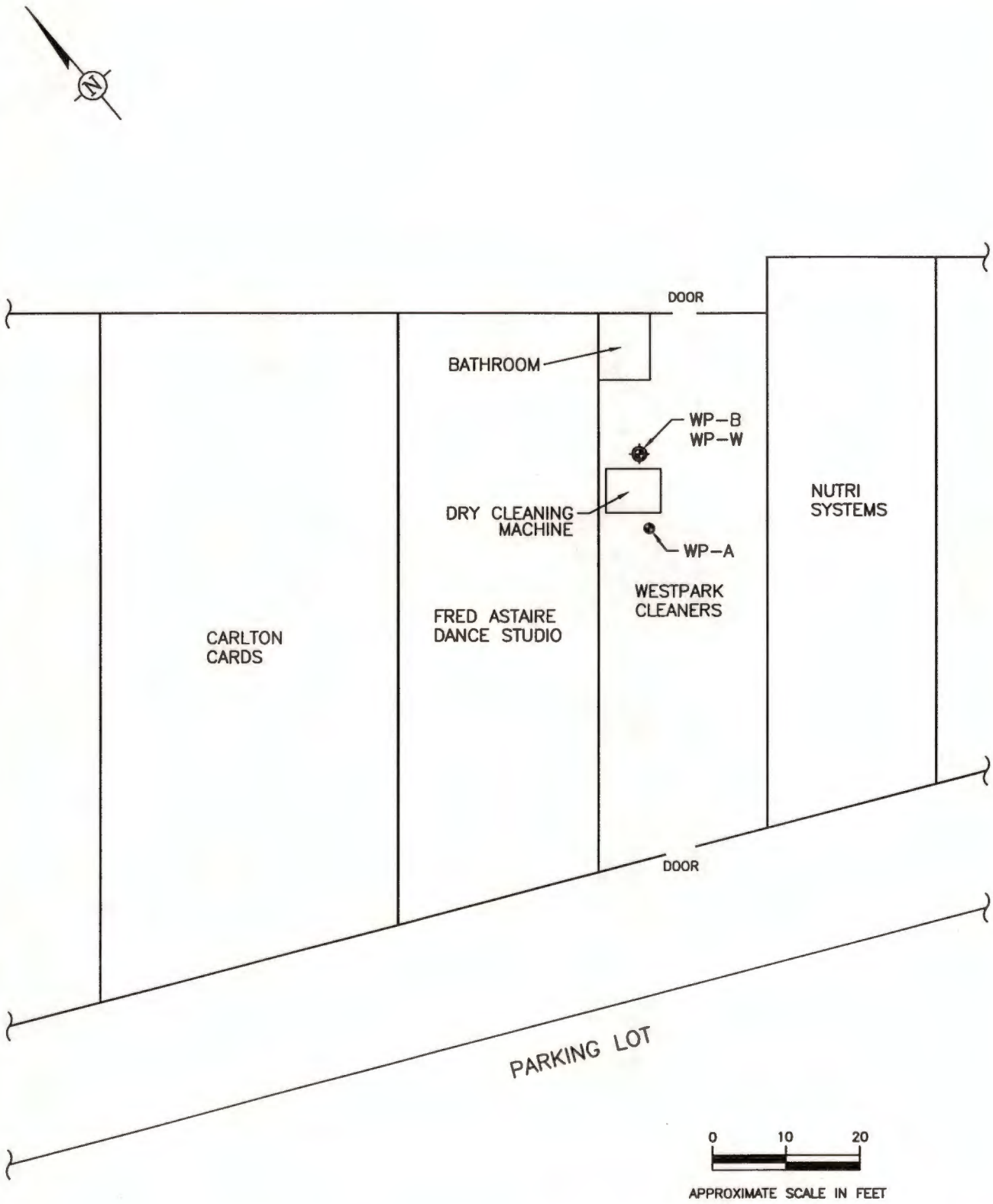
WESTPARK CLEANERS
3881 ALTON PARKWAY
IRVINE, CALIFORNIA

07/08/96 File: 1378T2.WK3

PROBE NUMBER	DATE OF SAMPLING	PROBE DEPTH (ft)	SAMPLING EVENTS	PCE (ug/L)
SG1–5	07/05/96	5	2	ND<1
SG2–5	07/05/96	5	3	ND<1
SG3–5	07/05/96	5	2	ND<1
SG4–5	07/05/96	5	1	4
SG5–5	07/05/96	5	1	ND<1
SG6–5	07/05/96	5	1	ND<1
SG7–5	07/05/96	5	1	ND<1
SG8–5	07/05/96	5	1	ND<1
SG9–5	07/05/96	5	3	4
SG10–5	07/05/96	5	2	25
SG11–5	07/05/96	5	1	6
SG12–5	07/05/96	5	2	24
SG13–5	07/05/96	5	1	4
SG14–5	07/05/96	5	3	419
SG15–5	07/05/96	5	1	12

ft = feet below grade
ug/L = micrograms per liter
PCE = Tetrachloroethene
ND = Not Detected; sample is below the reported detection limit
Note: Values shown are the highest detected within equipment calibration range.

FIGURES



EXPLANATION

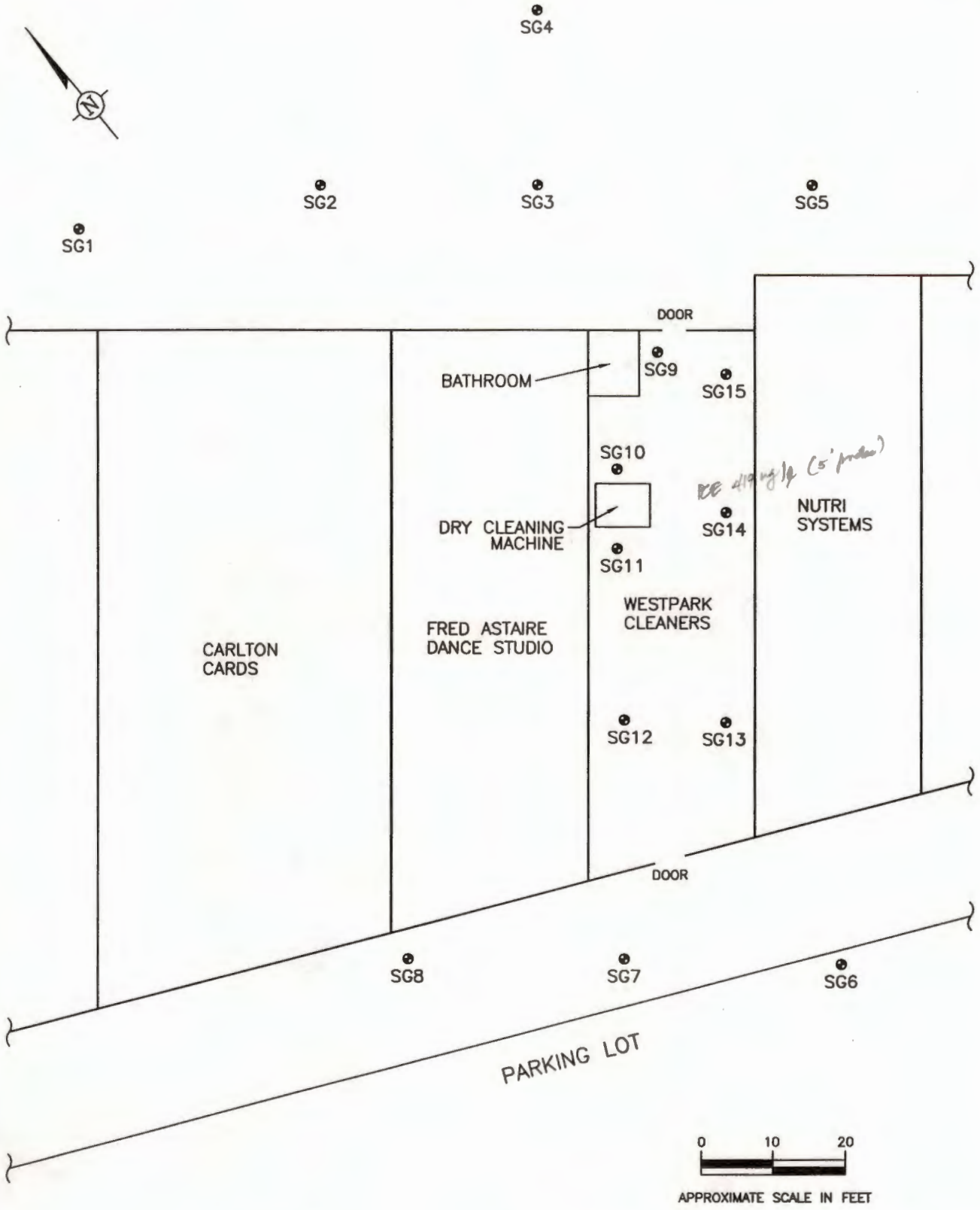
WP–A — APPROXIMATE LOCATION OF A SOIL SAMPLE WITH ASSOCIATED SAMPLE IDENTIFICATION NUMBER

WP–W — APPROXIMATE LOCATION OF A GROUNDWATER SAMPLE WITH ASSOCIATED SAMPLE IDENTIFICATION NUMBER

EST1378A.DWG

SOURCE OF BASE MAP: EST

FIGURE 1
APPROXIMATE LOCATIONS OF
SOIL AND GROUNDWATER SAMPLES COLLECTED
BY DELTA ENVIRONMENTAL CONSULTANTS
WESTPARK CLEANERS / WESTPARK PLAZA
3881 ALTON PARKWAY
IRVINE, CALIFORNIA
EST1378 / SOIL GAS SURVEY
DRAWN BY: JST SCALE: AS SHOWN DATE: 7–31–1996



EXPLANATION

SG1 — APPROXIMATE LOCATION OF A SOIL GAS SAMPLING PROBE WITH ASSOCIATED PROBE NUMBER

FIGURE 2

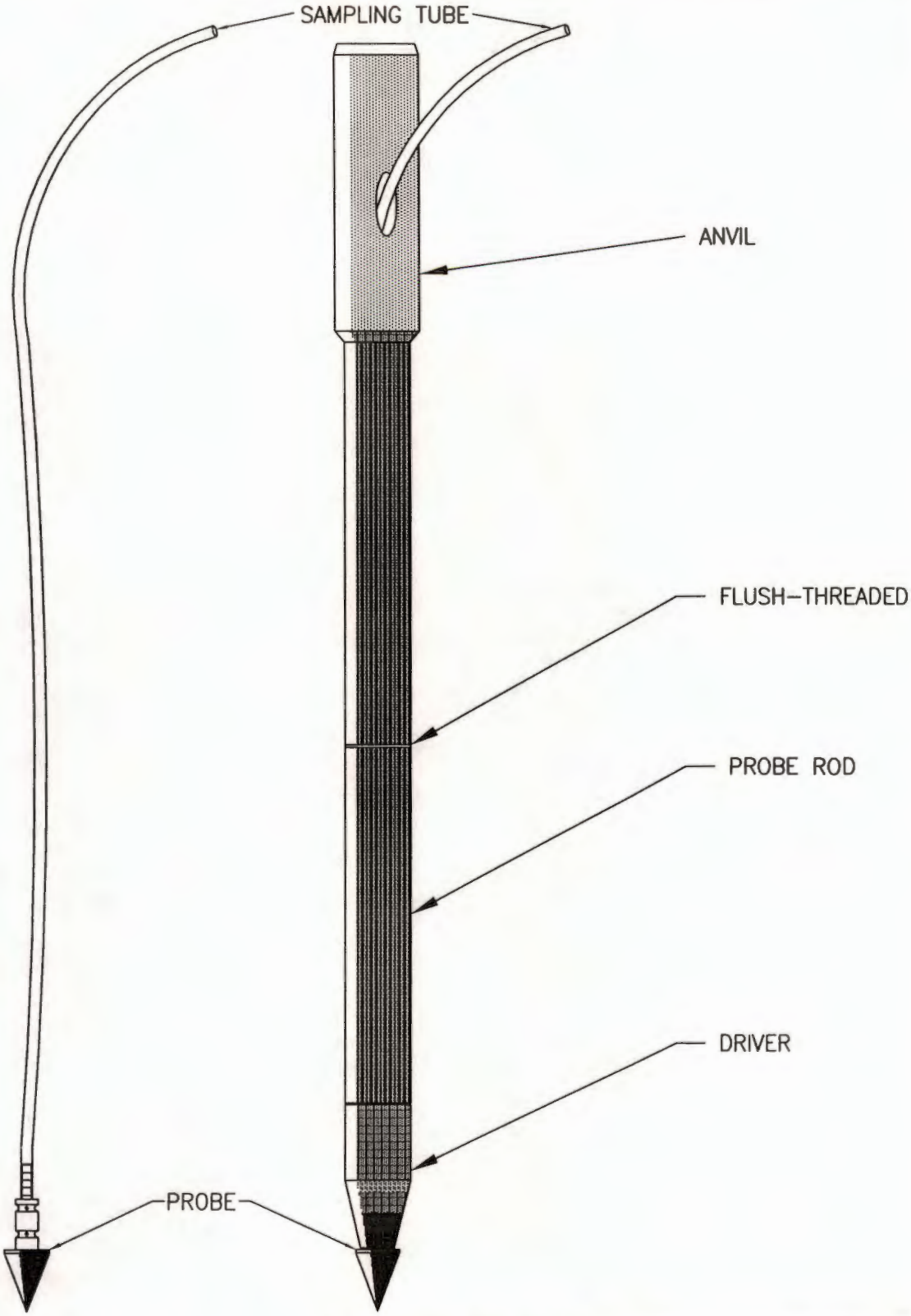
APPROXIMATE LOCATIONS OF SOIL GAS SAMPLING PROBES

WESTPARK CLEANERS / WESTPARK PLAZA
3881 ALTON PARKWAY
IRVINE, CALIFORNIA
EST1378 / SOIL GAS SURVEY

DRAWN BY: JST SCALE: AS SHOWN DATE: 7-10-1996

EST1378.DWG

SOURCE OF BASE MAP: EST

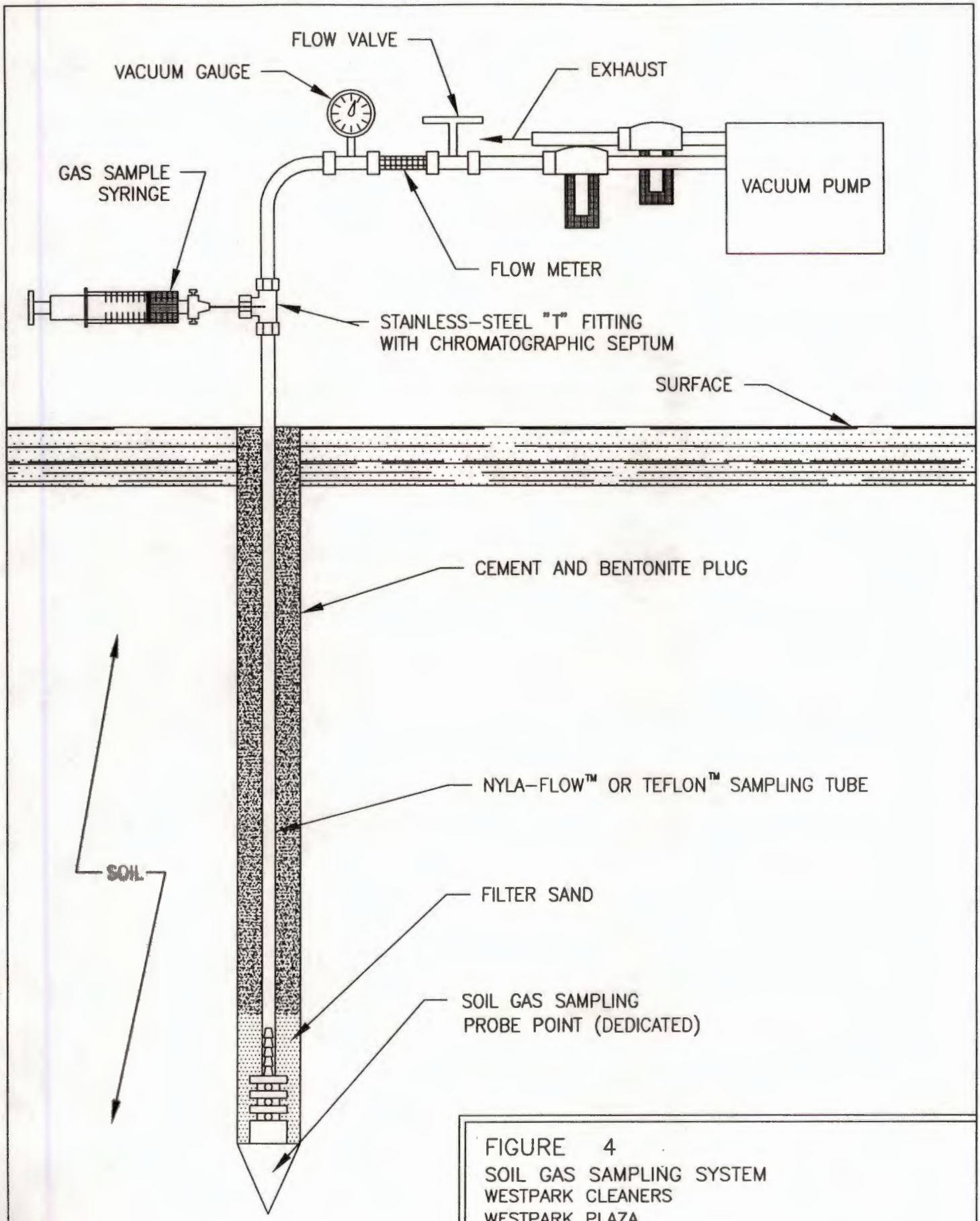


DEDICATED PORTION OF PROBE

NOTE: NOT TO SCALE

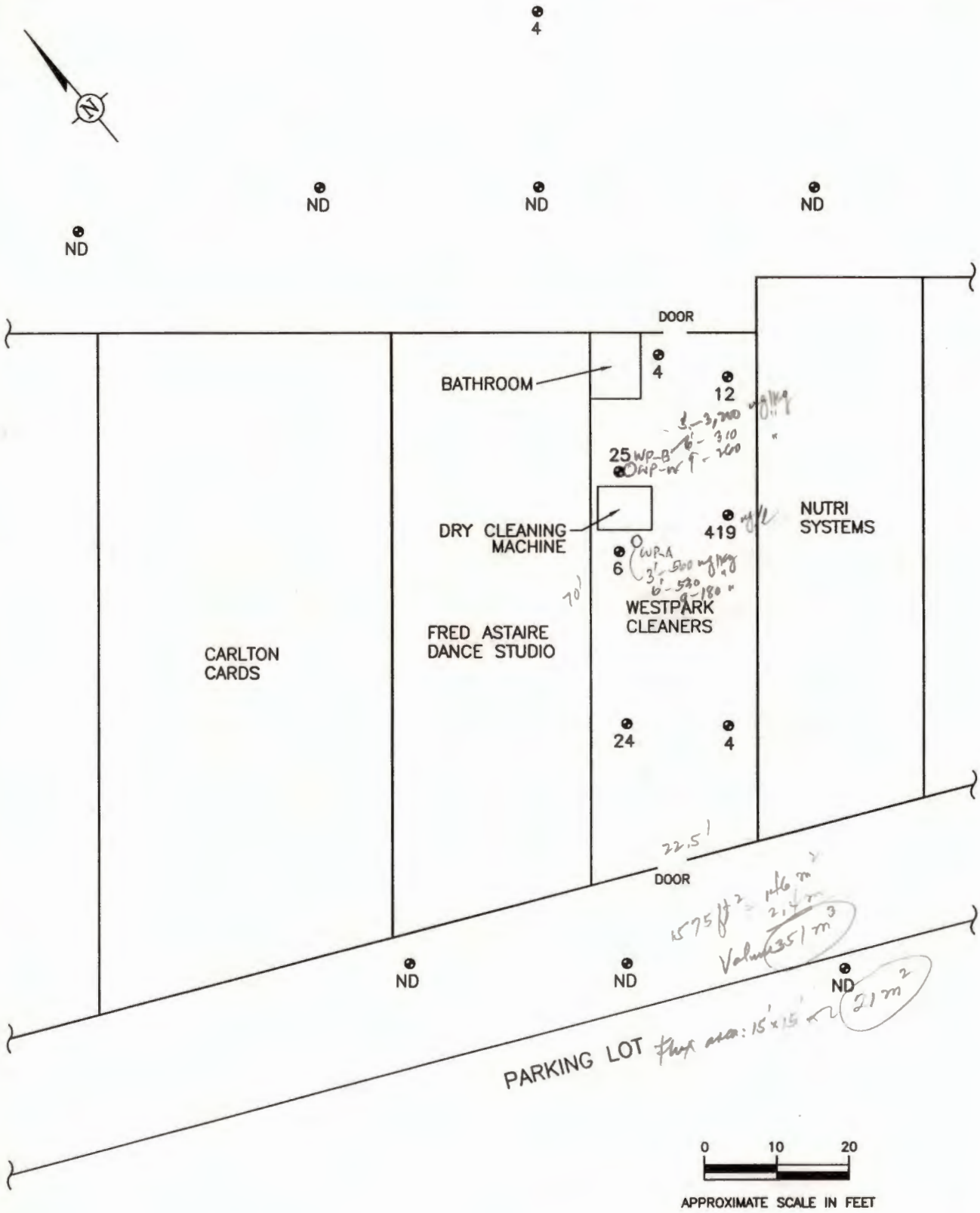
FIGURE 3
SOIL GAS SAMPLING PROBE
WESTPARK CLEANERS
WESTPARK PLAZA
IRVINE, CALIFORNIA
EST1378 / SOIL GAS SURVEY
DRAWN BY: JST NOT TO SCALE DATE: 7-11-96

ESTSGPRO.DWG



NOTE: NOT TO SCALE

FIGURE 4
SOIL GAS SAMPLING SYSTEM
WESTPARK CLEANERS
WESTPARK PLAZA
IRVINE, CALIFORNIA
EST1378 / SOIL GAS SURVEY
DRAWN BY: JST NOT TO SCALE DATE: 7-11-96



EXPLANATION

419	APPROXIMATE LOCATION OF A SOIL GAS SAMPLING PROBE WITH DETECTED CONCENTRATIONS OF TETRACHLOROETHENE (μ g/L)
ND	= NOT DETECTED

EST1378.DWG

SOURCE OF BASE MAP: EST

FIGURE 5

DETECTED CONCENTRATIONS OF TETRACHLOROETHENE

WESTPARK CLEANERS / WESTPARK PLAZA
3881 ALTON PARKWAY
IRVINE, CALIFORNIA
EST1378 / SOIL GAS SURVEY

DRAWN BY: JST SCALE: AS SHOWN DATE: 7-10-1996

APPENDICES

Appendix A

FACTORS AFFECTING THE GAS-PHASE DISTRIBUTION OF VOCs IN THE SUBSURFACE

Soil and groundwater contamination by volatile organic compounds (VOCs) can often be detected by analyzing trace gases in soil just below ground surface. This technique is possible because many VOCs will volatilize and move by molecular diffusion away from source areas toward regions of lower concentrations. A gas phase concentration gradient from the source to adjacent areas is established.

The following factors affect the transport and gas phase distribution of VOCs in the subsurface.

1. The liquid-gas partitioning coefficient of the compounds of interest (the "volatility" of the compound).

2. The vapor diffusivity, which is a measure of how quickly an individual compound "spreads out" within a volume of gas.

3. Retardation of the individual compounds as they migrate in the soil gas. Retardation may be due to degradation, adsorption on the soil matrix, tortuosity of the soil profile, or entrapment in unconnected pores.

4. The presence of impeding layers, wetting fronts of freshwater, or perched water tables, between the regional water table and ground surface.

5. The presence of soil moisture around man-made structures such as clarifiers and sumps may suppress volatilization and diffusion of VOCs resulting in false negative or low soil gas concentrations.

6. The presence of contaminants from localized spills or in the ambient air.

7. Movement of soil gas in response to barometric pressure changes.

8. The preferential migration of gas through zones of greater permeability (e.g. natural lithologic variation or back-fill of underground utilities).

9. Soil temperature.

At most sites, many of these factors are unknown or poorly understood. Because of this uncertainty, soil gas sampling should be used in conjunction with other site-specific data.

Appendix B

FIELD ANALYSES RESULTS FOR HALOGENATED AND AROMATIC HYDROCARBONS

(INCLUDING CALIBRATION REPORTS, QUALITY CONTROL REPORTS, AND EXPLANATION OF METHOD DETECTION LIMITS)

TABLE B–1
HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYSES RESULTS FOR SOIL GAS SAMPLES
WESTPARK CLEANERS, 3881 ALTON PARKWAY, IRVINE, CALIFORNIA
25–TARGET COMPOUND LIST

PID/ELCD #1 – 7/5/96
FILE: 378ASGRP.WK3

SAMPLE ID			SG1–5	SG2–5	SG2–5	SG2–5	SG3–5	SG9–5	SG9–5	SG9–5
DATE			7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96
TIME			8:43	8:58	9:11	9:25	9:44	10:07	10:20	10:33
INJECTION VOLUME (ul)			500	500	500	500	500	500	500	500
PURGE VOLUME (ml)			100	100	200	400	100	100	200	400
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
COMMENTS	RT	ARF								
Dichlorodifluoromethane	2:87	9.69E+07	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	3:20	4.52E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	3:48	1.95E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	3:67	5.18E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2–Trichloro–trifluoroethane	4:28	6.74E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1–Dichloroethene	4:26	3.78E+07	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Methylene chloride	4:91	1.10E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans–1,2–Dichloroethene	5:19	9.98E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1–Dichloroethane	5:68	1.03E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
cis–1,2–Dichloroethene	6:34	9.71E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Bromochloromethane (Surrogate)	6:57	5.36E+08	1.69E+08 71%	1.77E+08 66%	2.11E+08 79%	2.09E+08 78%	2.41E+08 90%	2.55E+08 95%	2.34E+08 87%	2.74E+08 102%
Chloroform	6:70	1.30E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1–Trichloroethane	6:93	1.23E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Carbon tetrachloride	7:12	1.59E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	7:36	1.20E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2–Dichloroethane	7:41	1.06E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichloroethene	8:16	1.15E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Toluene	9:64	1.17E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2–Trichlorethane	10:43	1.06E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	10:65	9.95E+08	0.00E+00 ND<1	2.41E+04 ND<1	7.17E+04 ND<1	1.44E+05 ND<1	0.00E+00 ND<1	1.74E+06 3	1.20E+06 2	1.90E+06 4
Chlorobenzene (Surrogate)	11:87	8.93E+07	4.43E+05 99%	4.98E+05 111%	5.54E+05 124%	5.39E+05 121%	5.80E+05 130%	5.45E+05 122%	4.56E+05 102%	5.72E+05 128%
1,1,1,2–Tetrachloroethane	12:00	1.12E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	12:00	1.41E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
meta and para–Xylene	12:16	3.04E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
ortho–Xylene	12:77	1.08E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2,2–Tetrachloroethane	13:77	9.81E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

ND = not detected; analyte is below the reportable limit of quantitation for this sample
RT = retention time
ul = microliter
in. Hg = inches of mercury

Concentrations reported in micrograms per liter (ug/L)
ARF = average response factor
ml = milliliter
* = exceeds calibration range

7/5/96

ANALYST : Ragi Abraham

REVIEWED BY : David M. Pride

TABLE B–1
HALOGENATED AND AROMATIC HYDROCARBONS
FIELD ANALYSES RESULTS FOR SOIL GAS SAMPLES
WESTPARK CLEANERS, 3881 ALTON PARKWAY, IRVINE, CALIFORNIA
25–TARGET COMPOUND LIST

PID/ELCD #1 – 7/5/96
FILE: 378ASGRP.WK3

SAMPLE ID			SG6–5	SG7–5	SG8–5	SG1–5	SG3–5	SG4–5	SG5–5	SG10–5
DATE			7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96
TIME			10:48	11:03	11:18	11:32	11:47	12:02	12:17	12:32
INJECTION VOLUME (ul)			500	500	500	500	500	500	500	100
PURGE VOLUME (ml)			400	400	400	400	400	400	400	400
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0
COMPOUND	RT	ARF								Syringe Leak
Dichlorodifluoromethane	2:87	9.69E+07	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	3:20	4.52E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	3:48	1.95E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	3:67	5.18E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2–Trichloro–trifluoroethane	4:28	6.74E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1–Dichloroethene	4:26	3.78E+07	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Methylene chloride	4:91	1.10E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans–1,2–Dichloroethene	5:19	9.98E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1–Dichloroethane	5:68	1.03E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
cis–1,2–Dichloroethene	6:34	9.71E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Bromochloromethane (Surrogate)	6:57	5.36E+08	2.82E+06 105%	3.77E+06 141%	4.08E+06 152%	2.35E+06 88%	2.72E+06 102%	2.46E+06 92%	2.41E+06 90%	1.91E+06 71%
Chloroform	6:70	1.30E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1–Trichloroethane	6:93	1.23E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Carbon tetrachloride	7:12	1.59E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	7:36	1.20E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2–Dichloroethane	7:41	1.06E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichloroethene	8:16	1.15E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Toluene	9:84	1.17E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2–Trichlorethane	10:43	1.06E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	10:65	9.95E+08	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	0.00E+00 ND<1	1.91E+04 ND<1	1.93E+06 4	5.86E+04 ND<1	0.00E+00 ND<5
Chlorobenzene (Surrogate)	11:87	8.93E+07	5.25E+05 118%	7.01E+05 157%	7.45E+05 167%	5.12E+05 115%	5.15E+05 115%	4.90E+05 110%	4.74E+05 106%	4.64E+05 104%
1,1,1,2–Tetrachloroethane	12:00	1.12E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	12:00	1.41E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	1.91E+04 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
meta and para–Xylene	12:16	3.04E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	8.86E+04 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
ortho–Xylene	12:77	1.08E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	2.70E+04 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2,2–Tetrachloroethane	13:77	9.81E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

ND = not detected; analyte is below the reportable limit of quantitation for this sample
RT = retention time
ul = microliter
in. Hg = inches of mercury

Concentrations reported in micrograms per liter (ug/L)
ARF = average response factor
ml = milliliter
* = exceeds calibration range

7/5/96

ANALYST : Ragi Abraham

REVIEWED BY : David M. Pride

TABLE B–1
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FIELD ANALYSES RESULTS FOR SOIL GAS SAMPLES
WESTPARK CLEANERS, 3881 ALTON PARKWAY, IRVINE, CALIFORNIA
25–TARGET COMPOUND LIST

PID/ELCD #1 – 7/5/96
FILE: 378ASGRP.WK3

SAMPLE ID			SG10–5	SG11–5	SG12–5	SG12–5	SG13–5	SG14–5	SG14–5	SG14–5
DATE			7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96
TIME			12:46	13:02	13:18	13:34	13:59	14:15	14:31	14:45
INJECTION VOLUME (ul)			500	500	500	100	500	500	50	10
PURGE VOLUME (ml)			400	400	400	400	400	400	400	400
VACUUM (in. Hg)			ND	ND	ND	ND	ND	ND	ND	ND
DILUTION FACTOR			1.0	1.0	1.0	5.0	1.0	1.0	10.0	50.0
COMPOUND	RT	ARF								
Dichlorodifluoromethane	2:87	9.69E+07	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	3:20	4.52E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	3:48	1.95E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	3:87	5.18E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2–Trichloro–trifluoroethane	4:28	6.74E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1–Dichloroethene	4:26	3.78E+07	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Methylene chloride	4:91	1.10E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans–1,2–Dichloroethene	5:19	9.98E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1–Dichloroethane	5:68	1.03E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
cis–1,2–Dichloroethene	6:34	9.71E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Bromochloromethane (Surrogate)	6:57	5.36E+08	3.05E+06 114%	2.30E+06 86%	2.87E+06 107%	2.60E+06 97%	2.68E+06 100%	2.54E+06 95%	2.28E+06 85%	2.00E+06 75%
Chloroform	6:70	1.30E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1–Trichloroethane	6:93	1.23E+09	0.00E+00 ND	0.00E+00 ND	1.15E+05 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Carbon tetrachloride	7:12	1.59E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	7:36	1.20E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2–Dichloroethane	7:41	1.06E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichloroethene	8:16	1.15E+09	3.28E+04 ND<1	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	4.84E+04 ND<1	0.00E+00 ND	0.00E+00 ND
Toluene	9:84	1.17E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2–Trichlorethane	10:43	1.06E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	10:65	9.95E+08	1.22E+07 25	3.08E+06 6	1.40E+07 28 *	2.40E+06 24	1.83E+06 4	3.30E+07 66 *	1.86E+07 373 *	4.16E+06 419
Chlorobenzene (Surrogate)	11:87	8.93E+07	5.40E+05 121%	4.16E+05 93%	5.12E+05 115%	5.33E+05 119%	4.77E+05 107%	4.85E+05 109%	5.09E+05 114%	4.70E+05 105%
1,1,1,2–Tetrachloroethane	12:00	1.12E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	12:00	1.41E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
meta and para–Xylene	12:16	3.04E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
ortho–Xylene	12:77	1.08E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2,2–Tetrachloroethane	13:77	9.81E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

ND = not detected; analyte is below the reportable limit of quantitation for this sample
RT = retention time
ul = microliter
in. Hg = inches of mercury

Concentrations reported in micrograms per liter (ug/L)
ARF = average response factor
ml = milliliter
* = exceeds calibration range

7/5/96

ANALYST : Ragi Abraham

REVIEWED BY : David M. Pride

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WESTPARK CLEANERS, 3881 ALTON PARKWAY, IRVINE, CALIFORNIA
25–TARGET COMPOUND LIST

PID/ELCD #1 – 7/5/96
FILE: 378ASGRP.WK3

SAMPLE ID			SG15–5	NA	NA	NA	NA	NA	NA	NA
DATE			7/5/96	NA	NA	NA	NA	NA	NA	NA
TIME			15:01	NA	NA	NA	NA	NA	NA	NA
INJECTION VOLUME (ul)			500	NA	NA	NA	NA	NA	NA	NA
PURGE VOLUME (ml)			400	NA	NA	NA	NA	NA	NA	NA
VACUUM (in. Hg)			ND	NA	NA	NA	NA	NA	NA	NA
DILUTION FACTOR			1.0	NA	NA	NA	NA	NA	NA	NA
COMPOUND	RT	ARF								
Dichlorodifluoromethane	2:87	9.89E+07	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Vinyl chloride	3:20	4.52E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroethane	3:48	1.95E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichlorofluoromethane	3:67	5.18E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2–Trichloro–trifluoroethane	4:28	6.74E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1–Dichloroethene	4:26	3.78E+07	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Methylene chloride	4:91	1.10E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
trans–1,2–Dichloroethene	5:19	9.98E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1–Dichloroethane	5:68	1.03E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
cis–1,2–Dichloroethene	6:34	9.71E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Bromochloromethane (Surrogate)	6:57	5.36E+08	2.92E+06 109%	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chloroform	6:70	1.30E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1–Trichloroethane	6:93	1.23E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Carbon tetrachloride	7:12	1.59E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Benzene	7:36	1.20E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,2–Dichloroethane	7:41	1.06E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Trichloroethene	8:18	1.15E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Toluene	9:84	1.17E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2–Trichlorethane	10:43	1.06E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Tetrachloroethene	10:65	9.95E+08	5.93E+06 12	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Chlorobenzene (Surrogate)	11:87	8.93E+07	5.32E+05 119%	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,1,2–Tetrachloroethane	12:00	1.12E+09	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
Ethylbenzene	12:00	1.41E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
meta and para–Xylene	12:16	3.04E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
ortho–Xylene	12:77	1.08E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND
1,1,2,2–Tetrachloroethane	13:77	9.81E+08	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND	0.00E+00 ND

ND = not detected; analyte is below the reportable limit of quantitation for this sample
RT = retention time
ul = microliter
in. Hg = inches of mercury

Concentrations reported in micrograms per liter (ug/L)
ARF = average response factor
ml = milliliter
* = exceeds calibration range

7/5/96

ANALYST : Ragi Abraham

REVIEWED BY : David M. Pride

TABLE B-2
QUALITY ASSURANCE/QUALITY CONTROL REPORT
DAILY MID-POINT, BLANK ANALYSIS, AND LAST GC TEST RUN
JULY 5, 1996

PID/ELCD #1

FILE: 378AQCMP.WK

		DAILY MID-POINT			BLANK	LAST GC TEST RUN		
STANDARD CONC. (ug/L) INJECTION VOLUME(uL) COMPOUND/WEIGHT(ug)	RT	5000 1.00 0.00500	AVERAGE RESPONSE FACTOR	PERCENT DIFFERENCE	AMBIENT AIR 500	5000 1.00 0.00500	AVERAGE RESPONSE FACTOR	PERCENT DIFFERENCE
Dichlorodifluoromethane	2:87	0			0.00E+00	0		
RF		0.00E+00	9.69E+07	NA	ND	0.00E+00	9.69E+07	NA
Vinyl chloride	3:20	0			0.00E+00	0		
RF		0.00E+00	4.52E+08	NA	ND	0.00E+00	4.52E+08	NA
Chloroethane	3:48	0			0.00E+00	0		
RF		0.00E+00	1.95E+08	NA	ND	0.00E+00	1.95E+08	NA
Trichlorofluoromethane	3:67	0			0.00E+00	0		
RF		0.00E+00	5.18E+08	NA	ND	0.00E+00	5.18E+08	NA
1,1,2-Trichloro-trifluoroethane	4:28	0			0.00E+00	0		
RF		0.00E+00	6.74E+08	NA	ND	0.00E+00	6.74E+08	NA
1,1-Dichloroethene (PID)	4:26	189131			0.00E+00	213557		
RF		3.78E+07	3.78E+07	0	ND	4.27E+07	3.78E+07	13
Methylene chloride	4:91	0			0.00E+00	0		
RF		0.00E+00	1.10E+09	NA	ND	0.00E+00	1.10E+09	NA
trans-1,2-Dichloroethene	5:19	4514545			0.00E+00	4933519		
RF		9.03E+08	9.98E+08	-10	ND	9.87E+08	9.98E+08	-1
1,1-Dichloroethane	5:68	4594677			0.00E+00	5585151		
RF		9.19E+08	1.03E+09	-10	ND	1.12E+09	1.03E+09	9
Cis-1,2-Dichloroethene	6:34	4837609			0.00E+00	3968965		
RF		9.68E+08	9.71E+08	-0	ND	7.94E+08	9.71E+08	-18
Bromochloromethane (Surrogate)	6:57	0			2.27E+06	0		
RF		0.00E+00	5.36E+08	NA	85%	0.00E+00	5.36E+08	NA
Chloroform	6:70	0			0.00E+00	0		
RF		0.00E+00	1.30E+09	NA	ND	0.00E+00	1.30E+09	NA
1,1,1-Trichloroethane	6:93	6058365			0.00E+00	5627638		
RF		1.21E+09	1.23E+09	-2	ND	1.13E+09	1.23E+09	-9
Carbon tetrachloride	7:12	0			0.00E+00	0		
RF		0.00E+00	1.59E+09	NA	ND	0.00E+00	1.59E+09	NA
Benzene (PID)	7:36	570308			0.00E+00	537129		
RF		1.14E+08	1.20E+08	-5	ND	1.07E+08	1.20E+08	-10
1,2-Dichloroethane	7:41	5087466			0.00E+00	4489072		
RF		1.02E+09	1.06E+09	-4	ND	8.98E+08	1.06E+09	-15
Trichloroethene	8:16	5421791			0.00E+00	4638243		
RF		1.08E+09	1.15E+09	-6	ND	9.28E+08	1.15E+09	-19
Toluene (PID)	9:84	615002			0.00E+00	567235		
RF		1.23E+08	1.17E+08	5	ND	1.13E+08	1.17E+08	-3
1,1,2-Trichloroethane	10:43	5230510			0.00E+00	4930709		
RF		1.05E+09	1.06E+09	-1	ND	9.86E+08	1.06E+09	-7
Tetrachloroethene	10:65	4963103			0.00E+00	4575627		
RF		9.93E+08	9.95E+08	-0	ND	9.15E+08	9.95E+08	-8
Chlorobenzene (Surrogate-PID)	11:87	0			538324	0		
RF		0.00E+00	8.93E+07	NA	121%	0.00E+00	8.93E+07	NA
1,1,1,2-Tetrachloroethane	12:00	0			0.00E+00	0		
RF		0.00E+00	1.12E+09	NA	ND	0.00E+00	1.12E+09	NA
Ethylbenzene (PID)	12:00	0			0.00E+00	0		
RF		0.00E+00	1.41E+08	NA	ND	0.00E+00	1.41E+08	NA
m,p-Xylene (PID)	12:16	1309518			0.00E+00	1509919		
RF		2.62E+08	3.04E+08	-14	ND	3.02E+08	3.04E+08	-1
o-Xylene (PID)	12:77	542305			0.00E+00	577499		
RF		1.08E+08	1.08E+08	0	ND	1.15E+08	1.08E+08	7
1,1,2,2-Tetrachloroethane	13:77	0			0.00E+00	0		
RF		0.00E+00	9.81E+08	NA	ND	0.00E+00	9.81E+08	NA

RT = Retention Time
RF = Response Factor
NA = Not Applicable

ug/L = microgram per Liter
uL = microliter
ug = microgram

7/5/96

ANALYST: Ragi Abraham

REVIEWED BY: David M. Pride

TABLE B–3
RESPONSE FACTORS FOR THREE POINT CALIBRATION
SUBJECT SITE, CALIFORNIA
JUNE 11, 1996

PID/ELCD #1

FILE: 06113PT.WK3

STANDARD CONC. (ug/L) INJECTION VOLUME (uL) COMPOUND/WEIGHT(ug)	RT	5000 0.50 0.0025	5000 1.00 0.0050	5000 2.00 0.0100	AVERAGE RESPONSE FACTOR	STANDARD DEVIATION	RELATIVE % STANDARD DEVIATION
Dichlorodifluoromethane	2:87	242694	491385	953537			
CF		9.71E+07	9.83E+07	9.54E+07	9.69E+07	1.47E+06	2
Vinyl chloride	3:20	1222677	1969214	4735684			
CF		4.89E+08	3.94E+08	4.74E+08	4.52E+08	5.11E+07	11
Chloroethane	3:48	465013	904500	2170714			
CF		1.86E+08	1.81E+08	2.17E+08	1.95E+08	1.96E+07	10
Trichlorofluoromethane	3:87	1543304	2024479	5328518			
CF		6.17E+08	4.05E+08	5.33E+08	5.18E+08	1.07E+08	21
1,1,2–Trichloro–trifluoroethane	4:28	1717670	3352063	6659989			
CF		6.87E+08	6.70E+08	6.66E+08	6.74E+08	1.11E+07	2
1,1–Dichloroethene (PID)	4:26	98098	199100	343179			
CF		3.92E+07	3.98E+07	3.43E+07	3.78E+07	3.02E+06	8
Methylene chloride	4:91	3130434	4873284	10690733			
CF		1.25E+09	9.75E+08	1.07E+09	1.10E+09	1.41E+08	13
trans–1,2–Dichloroethene	5:19	2703538	4426074	10280388			
CF		1.08E+09	8.86E+08	1.03E+09	9.98E+08	1.01E+08	10
1,1–Dichloroethane	5:68	2834524	4818221	10205546			
CF		1.13E+09	9.24E+08	1.02E+09	1.03E+09	1.05E+08	10
cis–1,2–Dichloroethene	6:34	2690851	4471766	9423301			
CF		1.08E+09	8.94E+08	9.42E+08	9.71E+08	9.43E+07	10
Bromochloromethane (Surrogate)	6:57	1331478	2536433	5678421			
CF		5.33E+08	5.07E+08	5.66E+08	5.36E+08	3.04E+07	6
Chloroform	6:70	2922162	7042628	13206540			
CF		1.17E+09	1.41E+09	1.32E+09	1.30E+09	1.21E+08	9
1,1,1–Trichloroethane	8:93	3407288	5593457	12192926			
CF		1.36E+09	1.12E+09	1.22E+09	1.23E+09	1.23E+08	10
Carbon tetrachloride	7:12	4383040	7222266	15752193			
CF		1.75E+09	1.44E+09	1.58E+09	1.59E+09	1.55E+08	10
Benzene (PID)	7:36	330160	539019	1192756			
CF		1.32E+08	1.08E+08	1.19E+08	1.20E+08	1.21E+07	10
1,2–Dichloroethane	7:41	2837031	5119321	10212894			
CF		1.13E+09	1.02E+09	1.02E+09	1.06E+09	6.48E+07	6
Trichloroethene	8:16	3176619	5541815	10785878			
CF		1.27E+09	1.11E+09	1.08E+09	1.15E+09	1.04E+08	9
Toluene (PID)	9:84	284042	594722	1197331			
CF		1.14E+08	1.19E+08	1.20E+08	1.17E+08	3.33E+06	3
1,1,2–Trichloroethane	10:43	2691128	5984053	9078205			
CF		1.08E+09	1.20E+09	9.08E+08	1.06E+09	1.45E+08	14
Tetrachloroethene	10:65	2338865	5978956	8524493			
CF		9.36E+08	1.20E+09	8.52E+08	9.95E+08	1.79E+08	18
Chlorobenzene (Surrogate–PID)	11:67	194831	441745	1016875			
CF		7.79E+07	8.83E+07	1.02E+08	8.93E+07	1.19E+07	13
1,1,1,2–Tetrachloroethane	12:00	2673943	6464342	9928914			
CF		1.07E+09	1.29E+09	9.93E+08	1.12E+09	1.56E+08	14
Ethylbenzene (PID)	12:00	417647	728604	1100433			
CF		1.67E+08	1.46E+08	1.10E+08	1.41E+08	2.88E+07	20
m,p–Xylene (PID)	12:16	858044	1532849	2621210			
CF		3.43E+08	3.07E+08	2.62E+08	3.04E+08	4.06E+07	13
o–Xylene (PID)	12:77	254627	639803	953345			
CF		1.02E+08	1.28E+08	9.53E+07	1.08E+08	1.73E+07	16
1,1,2,2–Tetrachloroethane	13:77	2591864	5074712	6921429			
CF		1.04E+09	1.01E+09	6.92E+08	9.81E+08	7.80E+07	8

RT = Retention Time

CF = Calibration Factor

ug/L = Micrograms per Liter

uL = Microliter

ug = Microgram

6/11/96

Analyst: Ragi Abraham

Reviewed by: David M. Pride

TABLE B-4
QUALITY ASSURANCE/QUALITY CONTROL REPORT
LAB CONTROL SAMPLE, BLANK ANALYSIS, AND LAST GC TEST RUN
JUNE 17, 1996

PID/ELCD #2

FILE: 0617QCLC.WK

		LAB CONTROL SAMPLE			BLANK	LAST GC TEST RUN		
STANDARD CONC. (ug/L) INJECTION VOLUME(uL) COMPOUND/WEIGHT(ug)	RT	5000 1.00 0.00500	AVERAGE RESPONSE FACTOR	PERCENT DIFFERENCE	AMBIENT AIR 500	5000 1.00 0.00500	AVERAGE RESPONSE FACTOR	PERCENT DIFFERENCE
Dichlorodifluoromethane	2:77	2362898			0.00E+00	0		
RF		4.73E+08	4.34E+08	9	ND	0.00E+00	4.34E+08	NA
Vinyl chloride	3:05	10202848			0.00E+00	0		
RF		2.04E+09	1.70E+09	20	ND	0.00E+00	1.70E+09	NA
Chloroethane	3:37	3121528			0.00E+00	0		
RF		6.24E+08	8.47E+08	-26	ND	0.00E+00	8.47E+08	NA
Trichlorofluoromethane	3:56	9698003			0.00E+00	0		
RF		1.94E+09	1.59E+09	22	ND	0.00E+00	1.59E+09	NA
1,1,2-Trichloro-trifluoroethane	4:17	14517888			0.00E+00	0		
RF		2.90E+09	3.69E+09	-21	ND	0.00E+00	3.69E+09	NA
1,1-Dichloroethene (PID)	4:15	307677			0.00E+00	0		
RF		6.15E+07	6.53E+07	-6	ND	0.00E+00	6.53E+07	NA
Methylene chloride	4:71	11195496			0.00E+00	0		
RF		2.24E+09	2.61E+09	-14	ND	0.00E+00	2.61E+09	NA
trans-1,2-Dichloroethene	5:01	12682616			0.00E+00	0		
RF		2.54E+09	2.90E+09	-13	ND	0.00E+00	2.90E+09	NA
1,1-Dichloroethane	5:46	13277976			0.00E+00	0		
RF		2.66E+09	2.85E+09	-7	ND	0.00E+00	2.85E+09	NA
Cis-1,2-Dichloroethene	6:08	13209800			0.00E+00	0		
RF		2.64E+09	2.76E+09	-4	ND	0.00E+00	2.76E+09	NA
Bromochloromethane (Surrogate)	6:23	7750611			0.00E+00	0		
RF		1.55E+09	1.49E+09	4	ND	0.00E+00	1.49E+09	NA
Chloroform	6:41	28327392			0.00E+00	0		
RF		5.67E+09	5.39E+09	5	ND	0.00E+00	5.39E+09	NA
1,1,1-Trichloroethane	6:68	22563184			0.00E+00	0		
RF		4.51E+09	4.97E+09	-9	ND	0.00E+00	4.97E+09	NA
Carbon tetrachloride	6:88	34828768			0.00E+00	0		
RF		6.97E+09	6.45E+09	8	ND	0.00E+00	6.45E+09	NA
Benzene (PID)	7:09	1345364			0.00E+00	0		
RF		2.69E+08	2.59E+08	4	ND	0.00E+00	2.59E+08	NA
1,2-Dichloroethane	7:10	26342864			0.00E+00	0		
RF		5.27E+09	4.72E+09	12	ND	0.00E+00	4.72E+09	NA
Trichloroethene	7:87	21447728			0.00E+00	0		
RF		4.29E+09	3.88E+09	11	ND	0.00E+00	3.88E+09	NA
Toluene (PID)	9:57	1298746			0.00E+00	0		
RF		2.60E+08	2.74E+08	-5	ND	0.00E+00	2.74E+08	NA
1,1,2-Trichloroethane	10:14	16744632			0.00E+00	0		
RF		3.35E+09	3.50E+09	-4	ND	0.00E+00	3.50E+09	NA
Tetrachloroethene	10:41	24037072			0.00E+00	0		
RF		4.81E+09	4.64E+09	4	ND	0.00E+00	4.64E+09	NA
Chlorobenzene (Surrogate-PID)	11:69	1329675			0.00E+00	0		
RF		2.66E+08	2.77E+08	-4	ND	0.00E+00	2.77E+08	NA
1,1,1,2-Tetrachloroethane	11:84	25040256			0.00E+00	0		
RF		5.01E+09	4.59E+09	9	ND	0.00E+00	4.59E+09	NA
Ethylbenzene (PID)	11:86	1160790			0.00E+00	0		
RF		2.32E+08	2.39E+08	-3	ND	0.00E+00	2.39E+08	NA
m,p-Xylene (PID)	12:05	2786085			0.00E+00	0		
RF		5.57E+08	5.57E+08	0	ND	0.00E+00	5.57E+08	NA
o-Xylene (PID)	12:71	1105797			0.00E+00			
RF		2.21E+08	2.27E+08	-3	ND	0.00E+00	2.27E+08	NA
1,1,2,2-Tetrachloroethane	13:79	19632640			0.00E+00			
RF		3.93E+09	3.73E+09	5	ND	0.00E+00	3.73E+09	NA

RT = Retention Time
RF = Response Factor
NA = Not Applicable

ug/L = microgram per Liter
uL = microliter
ug = microgram

6/17/96

ANALYST: Ragi Abraham

REVIEWED BY: Marcia LeFrancois

Table B–5
Environmental Support Technologies, Inc.
Detection Limits for Soil Gas Surveys

Detection Limits or Reportable Limits of Quantitation for Halogenated and Aromatic Hydrocarbons are 1 ug/L when the injection volume is 500 uL. For lesser injection volumes detection limits are listed below.

Injection Volume (uL)	Detection Limit (ug/L)
500	1.0
250	2.0
200	2.5
100	5.0
80	6.3
60	8.3
50	10.0
40	12.5
20	25.0
10	50.0
5	100.0
1	500.0

Appendix D USER PROVIDED RECORDS

Appendix E STANTEC RESUMES

Emily Medler

Environmental Scientist
1 years of experience

As an environmental scientist, Emily has experience performing sample extraction and preparation and performing inorganic chemistry analyses on projects in California. Emily has also has experience drafting Environmental Impact Reports (EIRs) during her studies in Australia. She is proficient with Microsoft programs, Google applications, Laboratory Information Management Systems (LIMS), and gINT geotechnical and geo-environmental software and she is familiar with American Society for Testing and Materials (ASTM) and Caltrans testing methods.

EDUCATION

Bachelors of Science, Environmental Science, California Lutheran University, Thousand Oaks, Thousand Oaks, California, 2017

CERTIFICATIONS & TRAINING

HAZWOPER, Occupational Safety and Health Administration, California, 2019

Open Water Diver, Professional Association of Diving Instructors, California, 2018

First Aid/CPR/AED, American Red Cross, Long Beach, California, 2019

PROJECT EXPERIENCE

LABORATORY FACILITIES

Multiple Projects* | Santa Paula, California, United States | 2018-2019 | Environmental Chemist/Analyst

Emily was involved in multiple projects where she sampled extraction in wastewater, drinking water, groundwater, and hazardous waste according to EPA 200.7 and 200.8 regulations. She also performed Inorganic chemistry sample analysis, specifically determination of trace metals concentrations using Inductively Coupled Plasma Mass Spectrometry (ICP-MS). She also performed complete wet chemistry laboratory analyses including pH, percent moisture, and Methylene Blue Active Substances Assay (MBAS),

Multiple Laboratory Projects* | Santa Paula, California, United States | 2018-2019 | Environmental Chemist/Analyst

On multiple projects, Emily performed inorganic chemistry analysis, specifically determination of trace metals (Arsenic, Cadmium, Mercury, and Lead) in cannabis products using Inductively Coupled Plasma Mass Spectrometry (ICPMS). She also extracted samples using closed velles microwave digestion, prepared and extracted samples for Cannabinoids, Mycotoxins, Residual Pesticides, and Percent Moisture analysis, and assisted in microbial impurities analyses, including the presence of foreign material, Escherichia coli (E. coli), Aspergiullus, and Salmonella.

Multiple Laboratory Projects* | Ventura, California, United States | 2018 | Laboratory Technician

Emily utilized her knowledge of American Society for Testing and Materials (ASTM) and Caltrans testing methods on multiple projects. She also performed simple to complex laboratory testing procedures.

HEALTHCARE

10121 Bacon Drive, Bettsville, Maryland Phase I Environmental Site Assessment | Bettsville, Maryland, United States

Emily was involved in the Ambient Air Data entry and threshold values research for this project.

PIPELINE CROSSINGS

L.S. 64 Yuba River Pipeline Relocation Project | California, United States | Ongoing

Emily is involved in the relocation of an existing pipeline across the Yuba River in Marysville, California using horizontal directional drilling technology. She drafted a correspondence response letter from SFPP (Kinder Morgan) to California State Lands Commission. She is also editing the project description, Glossary of Terms, Acronyms. She is drafting of Executive Summary, and administrative record.

LS-47 and LS-72 Pacheco Creek Washout Pipeline Remediation Project | Pacheco Creek, California, United States | Ongoing

Emily drafted the Lease Application to the California State Lands commission.

RECYCLED WATER

Montecito Sanitary District Title 22 Recycled Water Project | Montecito, California, United States | Ongoing

Emily is involved in this Initial Study-Mitigated Negative Declaration (ISMND) for a proposed upgrade to an existing facility including treatment of wastewater through ultrafiltration filters, reverse osmosis membranes, and sodium hypochlorite disinfection for irrigation discharge to an adjacent cemetery. She is drafting the project description, the Environmental Setting, and Impact Analyses for Cultural Resources, Hazards, Land Use, Population and Housing, Recreation and Housing, Tribal Cultural Resources, Utilities, and Wildfires.

** denotes projects completed with other firms*

ROADWAY

Harvard Avenue and Michelson Drive Intersection Improvements | Irvine, California, United States | Ongoing

The Harvard/Michelson intersection was recommended for capacity enhancements in the Irvine Business Complex (IBC) Vision Plan 2015 Five Year Traffic Study Update and a previous 2010 report.The Project will provide capacity enhancements and improve circulation to the intersection. Harvard Avenue and Michelson Drive are both two-lane primary arterials within the City's roadway network. This intersection serves the Rancho San Joaquin, Irvine Business Complex and Westpark Communities, or Planning Areas 19, 36, and 14, respectively. The project proposes to add one southbound left turn lane on Harvard Avenue onto eastbound Michelson Drive resulting in two left turn lanes. There are Class II bike lanes on each road; however, the lanes transition to Class III at the intersection. The project proposes to provide a striped Class II lane through the intersection along Harvard Avenue. Emily coauthored the Initial Site Assessment Report and performed the field assessment of the Environmental Study Area for the proposed project.

Culver Drive and Alton Parkway Intersection Improvements | Irvine, California, United States | Ongoing

The Culver Drive and Alton Parkway Intersection Improvement Project will provide capacity enhancements and improve circulation to the intersection. The Culver Drive and Alton Parkway intersection is located in Irvine. Culver Drive is a 6-lane major arterial roadway, and Alton Parkway is a 4-lane primary arterial east of Culver Drive and a 6-lane major arterial west of Culver Drive in the City roadway. Alton Parkway contains an 8-foot Class II bikeway, a 3-foot parkway, a 5-foot wide sidewalk, and a bus transit stop on the southeast corner of the intersection. The proposed improvements would convert Alton Parkway's eastbound approach of 2 through-lanes plus a right turn lane, to 3 through-lanes, with a defacto right turn lane. The Class II bikeway, parkway, sidewalk, and bus turn-out would be modified and/or shifted to accommodate the new roadway capacity needs. Emily coauthored Initial Site Assessment Report and performed a field assessment of the Environmental Study Area for the proposed project.

LANDSLIDE/ROCK SLIDE RISK & MITIGATION

Big Rock Mesa Landslide Maintenance Project* | California, United States | 2018 | Laboratory Technician

Emily participated in water sampling along the Malibu Coastline for this project.

COMMUNITY INVOLVEMENT

Volunteer/Advisor, Study Abroad Center at California Lutheran University, Thousand Oaks, California, United States 2016-2017

Volunteer, Sepulveda Basin Clean Up, Friends of the Los Angeles River, Los Angeles, California 4/2017

Volunteer, Beach Clean-up, Monte Vista Presbyterian Church, Monte Vista, California, United States 2015

Science Festival Volunteer, National Parks Service 4/2015

Volunteer Lifeguard, Polar Bear Plunge, Conejo Recreation Park District, Conejo, California, United States 12/2016,12/2007

** denotes projects completed with other firms*

Lewis D. Simons PG

Principal Geologist

Lewis is a State of California Licensed Professional Geologist with more than 24 years of professional experience in the environmental consulting field. Fields of specialization include Brownfield Redevelopment Services, Hazardous Waste Management, Due Diligence and Compliance Audits, Phase I & II Environmental Site Assessments, Expert Witness Litigation Support, Former Oilfield Redevelopment/Construction Projects, Methane Site Assessment & Mitigation, Solid Waste Landfill Projects, Risk Assessments, Remediation & Decommissioning, Air Sampling, Stormwater Pollution Prevention, completion of projects under direct oversight from the EPA/DTSC, and the implementation of Environmental Management Systems under ISO 14001 Guidelines.

EDUCATION

MS, EIA, Auditing, and Environmental Management Systems, University of East Anglia, Norwich, England, 2001

BS, Geology, University of Leicester, Leicester, England, 1995

REGISTRATIONS

Professional Geologist #7976, State of California

Ventura County Watershed Protection District, Water Resources Division, Registered Well Inspector

Member of the Geological Society of America (GSA), # 9113742

KEY PROJECT EXPERIENCE

Brownfield Assessment & Redevelopment Projects

City of Los Angeles, Department of Public Works, Bureau of Sanitation (LASAN), Marlton Square Shopping Center

Lewis provided technical consulting support to evaluate the scope and extent of impacts identified at a former shopping mall property located in Los Angeles. The services included presenting the likely scope, estimate of probable costs and remedy for the mitigation of impacts to allow safe redevelopment of the property. Lewis presented the information on a conference call attended by the CalEPA DTSC, City of Los Angeles, and the developer. The call enabled key stakeholders to evaluate the scope of remedial action, the short and long-term risks, as well as the consideration of mitigation measures (vapor barriers) recommended for the proposed use ensuring future redevelopment could occur unimpeded.

Former Marine Service Building, Phase I & Phase II ESA, 740 E. & 800 E. 111th Place, Los Angeles, CA

Lewis is currently serving as the key technical lead for environmental assessment and site remediation services for LASAN's Brownfield Redevelopment Program. Lewis is currently managing the completion of Phase I and Phase II ESA's on two commercial properties that have been identified by the LASAN being selected for redevelopment under their Brownfield Redevelopment Program. Scope of services included the completion of a Phase I ESA, Phase II ESA and additional investigation to identify the likely source of chlorinated solvent impacts that were identified during the initial Phase II ESA. Additional services included projection of costs and the scope of corrective action work that would likely be required to address environmental impacts to allow redevelopment of the property for the intended future use as an electric bus depot.

City of Los Angeles, Department of Public Works, Bureau of Sanitation (LASAN), Former Bethune Library, Los Angeles Regional Water Quality Control Board Open Case, Site Characterization

As the lead technical site assessment and remediation program manager, Lewis provided technical oversight for a LARWQCB -led Phase II ESA at the Former Bethune Library Property in Los Angeles. The purpose of the investigation was to evaluate the presence of petroleum hydrocarbons and heavy metals (principally lead) as a result of a former UST that was located on the property prior to the Bethune Library. The scope of work included a technical workplan submitted to the LARWQCB for review and approval and implementation of the plan on behalf of LASAN. A technical report documenting the soil borings, soil and soil vapor sampling results was prepared and uploaded to the SWRCB's Geotracker online database. Stantec is requesting the case be closed based on the favorable results of the soil and soil vapor testing, which will enable LASAN to move forward with its plans to redevelop the property for residential purposes.

** denotes projects completed with other firms*

Lewis D. Simons PG

Principal Geologist

City of Los Angeles Department of Recreation & Parks (LADRAP), Multi-tenant Single Occupancy Residential Property, Allegheny Street, Sun Valley, CA, Phase I ESA.

As the technical lead for site assessment and remediation services provided to LADRAP, Lewis oversaw the completion of a Phase I ESA that is planned for redevelopment from a property currently containing three single family homes, into a local community park. Lewis ensured the report was delivered under an expedited timeframe and in accordance with ASTM 1527-13. Regular updates on findings were integral to ensure LADRAP could make critical informed decisions on the condition of the property, and any further action that may be warranted to allow the property to be redeveloped into a community park.

City of Los Angeles, Dept. of Public Works, Bureau of Sanitation (LASAN), Pico Union Community Garden Redevelopment Project

Lewis is the technical lead and project manager for the assessment and remediation of a community garden located in Los Angeles, CA that was formerly used for dry cleaning and historic automotive service repair services. Impacts from heavy metals (arsenic and lead) were identified in shallow soils that will need to be mitigated with oversight provided by the CalEPA DTSC. Services provided include the presentation of prior existing environmental soil sampling data, entry into a voluntary cleanup agreement administered by the DTSC, development and implementation of a technical workplan to mitigate shallow soil impacts to ensure the property is suitable for redevelopment into a local community park. Community outreach will be an integral part of the project to ensure all stakeholders and the local community are kept informed on the progress of this transformational and beneficial redevelopment project to the residents of the City of Los Angeles.

Confidential Healthcare Client, Hospital Expansion Construction Project, UST Removal, Downey, CA

Lewis managed the expedited removal of a UST that was inadvertently encountered during the installation of utility lines associated with the expansion of an existing medical center. The location of the UST encountered adjacent to the new parking structure that was being built was previously unknown. Lewis was able to expedite the removal of the UST using Stantec's trusted subcontractor network that included mobilization of a UST removal subcontractor and use of a lab that could provide the testing of confirmation soil samples (post UST removal) on a 24- to 48-hour rush turnaround timeframe. Timing was critical to remove the UST and minimize downtime by the client's general contractor. A technical report documenting the removal was prepared for the City of Downey Fire Department as well as the Los Angeles County Department of Public Works. Based on the highly favorable results, a request to close out the reported UST was requested along with confirmation of no further action required.

Vapor Intrusion / Methane Site Assessment & Mitigation-Related Projects

Confidential Healthcare Client, Medical Office Building (Lease) Remodel (Playa Vista), Los Angeles, CA, Phase I & Phase II ESA's, PCA, Water Quality Testing Vapor Intrusion & Methane Mitigation System Design & Installation Services

Lewis is the technical lead and project manager for the assessment and mitigation of vapor intrusion conditions (to include methane) identified at a commercial office building that will be remodeled into a medical office building. The scope of services provided included the completion of Phase I and Phase II ESA's, a Property Condition Assessment (PCA), and vapor intrusion investigations to evaluate the presence of volatile organic compounds and methane within the subsurface of the building. The results of the methane testing were used to establish the methane design basis in accordance with LADBS site testing standards and city ordinance for methane mitigation systems. Stantec assisted the general contractor on behalf of the client to provide additional architectural design considerations and implementation of the mitigation systems as a retrofit of the existing building. Air monitoring was provided during the installation of the sub-slab passive methane mitigation piping system based on the detection of up to 100% methane beneath the building slab during the assessment phase of the project. In addition, water quality testing was completed by Stantec to evaluate the existing water supply quality and enable decisions to be made on equipment that may be needed to meet the client's healthcare standards and existing state and federal water quality standards for occupancy by its personnel and visitors for use as a medical office building.

Confidential Healthcare Client, Medical Center Hospital Expansion Project, Harbor City, CA, Methane Site Investigation to Establish Methane Design Basis.

Lewis directed an investigation for methane for a proposed expansion building to the South Bay Medical Center located in Harbor City, CA. The investigation comprised the completion of soil borings, installation of triple-nested soil vapor probes and the collection and analysis of soil vapor samples to evaluate the presence of methane. The scope of work was completed in accordance with the site testing standards established by the LADBS to determine the methane design basis and adoption of appropriate methane mitigation measures.

** denotes projects completed with other firms*

Lewis D. Simons PG

Principal Geologist

Waste Management & Solid Waste Landfills

Azusa Land Reclamation Landfill, Azusa, CA, Non-Conforming Lead Impacted Soil Disposal, Positional Report & Corrective Action Workplan. LARWQCB Lead Regulatory Oversight Project

Lewis provided technical support to resolve the placement of non-conforming soil at the Azusa Land Reclamation Landfill located in Azusa, CA. Approximately 6 roll-off bins of lead-impacted soil that had been profiled as Non-RCRA California hazardous waste (results identified an STLC of 8.34 mg/L) and designated for disposal at a facility licensed to accept the waste located in La Paz, Arizona, was inadvertently directed by the excavation subcontractor coordinating the disposal activities to the Azusa landfill. The Azusa landfill is a former sand and gravel extraction pit that is now being used as an inert waste landfill operated by Waste Management. The placement of the non-conforming lead impacted soil occurred in an unlined area of the landfill. Based on the permeable/porous characteristics of the landfill and threat to groundwater, the non-conforming soil would need to be removed under the regulatory oversight of the LARWQCB. A notice of violation (NOV) was issued to the operator by the LARWQCB, which required the development and implementation of a corrective action workplan (CAP) and the removal of the non-conforming soil to a facility that could accept the lead-impacted soil. Stantec developed the technical approach and scope of work for the CAP to remove the non-conforming soil by excavation and transportation of the soil to an appropriately licensed facility. Confirmation soil samples will be collected to verify the removal of the non-conforming soil to the satisfaction of the LARWQCB and to close out the NOV that was issued to the Azusa Landfill.

Mission Canyon Landfill, Subsurface Exploration & Encroachment Study, Los Angeles County, Chief Executive Office, Capital Projects/Debt Management, Los Angeles, CA

Lewis completed an encroachment assessment study for a former landfill located in Los Angeles County, CA. Stantec was tasked with completing a review of various sources of information (LA County Sanitation District solid waste records, topographic maps, aerial photos, geophysical surveys, parcel maps, etc.) associated with the Mission Canyon Landfill and conducting an evaluation on the extent of refuse and its potential encroachment onto adjacent private residential properties, as well as the encroachment from the adjoining private properties onto the Count- owned landfill. The Mission Canyon Landfill operated between 1960 and 1965. Based on subsurface exploration activities and soil boring logs completed on the landfill in 2012, typical waste materials deposited included, but was not limited to, debris identified as: wood, newspaper, plastic, glass, tile, ceramics, concrete, wax paper, steel wool, fabric, asphalt, leather, charcoal and burlap wrap. During this period of time, the land adjoining the landfill around its northern perimeter was subject to grading activities and development into predominantly residential housing and other private properties.

Stantec evaluated and compared the available data regarding the likelihood of two key scenarios that may have occurred related to the Mission Canyon Landfill and the adjoining private residential properties located along its northern-most boundary. The two key scenarios were identified as the likely potential for: 1) encroachment of refuse from the Mission Canyon Landfill beneath private residences; and 2) Encroachment by private residential properties onto the Mission Canyon Landfill. Stantec presented their findings and worked with the Chief Executive Office of the Los Angeles Department of Public Works to develop mutually acceptable strategies to resolve both the Counties encroachments onto private property, and the neighboring properties encroachment onto the LA County Mission Canyon Landfill.

Hazardous Waste Program Manager, Chevron Pipeline Company, California (Principal Geologist, Program Manager)

Lewis was the lead hazardous waste program manager providing hazardous waste management services for Chevron Pipe Line Company across the State of California. Projects managed were associated with new construction capital projects as well as operation, maintenance, decommissioning and site assessment/remediation services. In addition, Lewis developed a comprehensive Waste Management Guidance Document for CPL. From this document, site-specific waste management plans were created on a per-project basis. Lewis managed the storage, handling and disposal aspects of multiple waste streams generated from on-going operation and maintenance of existing CPL facilities, as well as new capital construction projects. Waste minimization in full compliance with local, state and federal regulations and cost savings were a major focus and driving force for the waste management services delivered to CPL.

Former Bakery/New Target Store Construction, San Pedro, California (Project Geologist)

Lead-impacted soils were inadvertently identified at a former bakery site in San Pedro, California during grading and were initially deemed to be RCRA Hazardous or Non-RCRA California hazardous waste. Based on a cost-effective site-specific sampling and analysis plan developed in accordance with current regulatory and health and safety guidelines, Lewis was able to profile and dispose of the soils as non-hazardous waste, thus enabling the Target Corporation to avoid liability as a hazardous waste generator and the resultant associated tax implications. By working effectively with the subcontractors and Target's designated construction group, Lewis was able to minimize down-time, while providing significant cost savings and adherence to regulatory guidelines for the correct characterization and disposal of soils from the site. Cost savings were provided to Target in the form of reduced transport, handling, and significantly lower disposal costs, as well as avoiding long-term liability as a generator of hazardous waste and the associated tax implications.

** denotes projects completed with other firms*

He expedited management of the characterization, excavation, and disposal of soils—critical given the construction schedule for the redevelopment of the former bakery site into a Target Store. Environmental consulting work also performed at this location that included obtaining an NFA/Case Closure status from the LARWQCB for the former underground storage tanks; evaluation of a former railroad spur for potential heavy metals, pesticides, and herbicide impacts or waste characterization purposes.

Renewable Energy Projects

Phase I ESA, 3,700 Acre Proposed Wind Farm Project, Confidential Renewable Energy Client, Alameda County, CA
Lewis managed the completion of a Phase I ESA for a proposed windfarm that encompassed approximately 3,700 acres and comprised 17 contiguous legal parcels. The Phase I ESA was conducted in conformance with the requirements of American Society for Testing and Materials (ASTM) Designation E 1527-13, and All Appropriate Inquiry (AAI) as defined by the US-EPA in Title 40 of the Code of Federal Regulations, Part 312, except as may have been modified by the scope of work, and terms and conditions, requested by the Client. Due to the size, accessibility, and rugged topography of the Property, the site reconnaissance was conducted in general accordance with ASTM Standard E2247-16: Phase I Environmental Site Assessment Process for Forestland or Rural Property. The Phase I ESA was completed to support the clients planning aspects of the project under CEQA. The property was used previously for wind power generation, however, the client intends to upgrade the study area with modern wind turbines as part of an approved wind repowering project.

Transportation/Roadways

Initial Site Assessment (ISA) Study, Moorpark West Studios, Moorpark, CA. Highway SR118 Widening Project (Principal Geologist, Project Manager)
Lewis coordinated the completion of an Initial Site Assessment (ISA) in accordance with CalTrans Standards for the widening of Highway SR 118 (Los Angeles Avenue) associated with the proposed Moorpark Studios Project located in Moorpark, CA. The widening of the highway resulted in testing soils for potential impacts from aerially deposited lead as well as the nearby agricultural land that utilized pesticides/herbicides. Scope of services included the preparation and implementation of a technical site assessment workplan and outreach to private landowners to obtain access agreements to perform the soil testing adjacent to the 118 Freeway.

Interstate 210/215 Soil Sampling, San Bernardino, California (Project Manager/Field Coordinator)
Lewis served as project manager/field coordinator for the completion of soil sampling for aerially deposited lead (ADL) analysis along the Interstate 210/215 Freeways in California. The proposed scope of work was intended to evaluate whether excavated soil generated during the proposed improvements to the freeways would result in the need for special handling or disposal (as defined by Title 22 of the California Code of Regulations) with respect to ADL. To evaluate appropriate handling procedures for excavated soil as a result of proposed Caltrans improvements, the collected samples were analyzed in a California certified laboratory for total lead. In addition, select samples were also analyzed for pH and soluble lead following the California Waste Extraction Test (where total lead exceeds 50 mg/kg) and the Toxicity Characteristic Leaching Procedure (TCLP) (where Cal WET results exceed 5 mg/L). Tasks included coordinating several soil-sampling teams and the processing, collection, and logging of multiple soil samples.

Environmental Site Assessment & Remediation Projects

Former Dry Cleaners, Simi Valley, CA, Site Assessment & Remediation
Lewis is currently managing the completion of site characterization and corrective action for a former dry-cleaner business that had an unauthorized release of chlorinated solvents (principally PCE and TCE with degradation products of cis-1,2-dichloroethylene, 1,1-dichloroethylene, trans-1,2-dichloroethylene) to shallow soil and groundwater. With lead regulatory oversight provided by the LARWQCB, Lewis prepared a technical corrective action workplan (CAP) to address the impacts, as well as evaluate potential vapor intrusion conditions. The evaluation of soil vapor conditions post-excavation and removal of impacted soil combined with groundwater monitoring will be used to demonstrate the effectiveness of the corrective action, as well as provide precautionary measures (such as inclusion of a vapor barrier into the redevelopment design) to ensure future redevelopment of the Property is fully protective to future occupants and users of the new proposed commercial building.

Lewis D. Simons PG

Principal Geologist

San Gabriel Superfund/LARWQCB Led Multi-Media Site Assessment, School Bus Fleet Maintenance Yard, Rosemead, CA (Technical Lead/Project Manager)

Lewis is the technical lead and project manager for a multi-media site assessment at a bus service maintenance yard located within the San Gabriel Superfund Operating Unit. Following the completion of a chemical use inventory questionnaire and pursuant to a LARWQCB letter dated March 24, 2016 (Requirement for Technical Report Pursuant to California Water Code [CWC] Section 13267 Order), the client was required to submit a workplan to conduct a multi-media site assessment of the property. A Technical Work Plan for a Site Assessment dated July 13, 2017 was submitted and comprised the advancement of 8 soil borings to a maximum depth 45 feet bgs, conversion of the borings into triple-nested soil vapor wells, and the collection of soil, soil vapor, and groundwater samples for submittal to a fixed-base laboratory for chemical analyses. Based on the scope of work completed, Stantec was able to demonstrate that the historic and current bus service maintenance operations had not contributed to the constituents of concern (primarily VOCs [chlorinated solvents]) documented in groundwater associated with the San Gabriel Superfund Operating Unit, and therefore should not be identified as a potential responsible party and no further assessment of the property as it relates to the Superfund is warranted.

Phase I ESA/Property Transfer – Westlake Village Golf Course, Westlake Village (Client/Project Manager)

Lewis performed and managed a Phase I ESA of the Westlake Golf Course located in Westlake Village, CA, in accordance with the methodology and protocol of the American Society of Testing Materials (ASTM) Standard Practice for Environmental Site Assessments ("Standard" E 1527-05). Work included a review of available government agency files; an environmental record search of interviews with property owners and regulatory agencies; submittal of report to the client, including recommendations for Phase II assessment and sampling, when appropriate. The assessment of the property included critically important document reviews for a third party off-site release of chlorinated solvents that had migrated beneath the Property via shallow groundwater. Stantec was able to demonstrate that the concentrations in groundwater were low (marginally above the MCL) and that a responsible party had been identified with regulatory agency oversight provided by the DTSC and the LARWQCB.

Expert Witness/Litigation Support

CERCLA Claims Evaluation, Former Rolling Steel Mill, Jordan Downs, California (Principal Geologist/Expert Witness)

Lewis provided expert witness/litigation support services on a CERCLA claims evaluation legal case associated with the former operation of a rolling steel mill located in Jordan Downs, California. The property was purchased by a local housing agency (as the Plaintiff) for redevelopment into a mixed residential and commercial property. The property was impacted with heavy metals, VOC's, TPH and PCB's as a result of the historical use of the property for various industrial uses, which resulted in the Plaintiff filing a claim against the former defendants. Services provided by Lewis included broad historical research into past and present activities performed at and adjoining the Property, preparation and submittal of expert witness reports, depositions and the design and implementation of field investigation programs, and collection of data in support of the defendants. Based on the expert witness litigation services Lewis had provided, Stantec was asked to additionally represent multiple other defendants in the case. The case was settled to the satisfaction of the clients represented.

BP/ARCO Tesoro, Litigation Support & Natural Gas Pipeline Decommissioning Services, Hollywood Park Racecourse & Casino, Inglewood, CA

Stantec developed a positional report pending legal action by the owner of the Hollywood Park Racecourse & Casino Property for alleged impacts resulting from the operation of a natural gas pipeline. The key contaminants of concern were principally arsenic and TPH. Based on research conducted by Stantec, the positional report was able to determine that the majority of the 238-acre site had significant impacts from arsenic and TPH that could not be attributed to the natural gas pipeline. In addition, investigative research and the decommissioning of four remaining sections of pipeline confirmed that elevated concentrations of arsenic and TPH detected in soil directly beneath the pipeline were a result of the property owner driving fence posts and a light stand into the natural gas pipe line (right of way), which caused the hotspot detections of arsenic detected in soil. Based on the submittal of the positional report to the Property owner, the client was not contacted any further or approached with respect to the Property owners claims that their operation of the natural gas pipeline had caused impacts to soils at the Property. Instead, it was proven that the Property as-a-whole was impacted with elevated arsenic and TPH.

** denotes projects completed with other firms*

Stantec provided oversight for the removal of four sections of the inactive Former British Petroleum, Atlantic Richfield Company (BP ARCO) natural gas pipeline 216A. The four sections of pipeline were located along the west and south peripheral boundary areas of the Hollywood Park Racecourse and Casino Property parking lot directly adjacent to South Prairie Avenue and West Century Boulevard in Inglewood, California 90301. The decommissioning activities for the four remaining sections of the natural gas pipeline occurred from May 27, 2015 to June 10, 2015. The ownership of the former pipeline was transferred from BP ARCO to Tesoro in approximately 2012/2013.

Oil & Gas

Confidential Healthcare Client, Mental Health Facility Expansion, Former Oil Exploration Redevelopment Project, Los Angeles City Oil Field, Los Angeles, California (Ongoing)

Lewis directed the research, investigation and mitigation of former oil wells at a proposed medical expansion redevelopment project located in the City of Los Angeles Oil Field. Lewis is working with the State of California Department of Conservation, Division Oil, Gas & Geothermal Resources (DOGGR) and the local permitting agency, Los Angeles Department of Building & Safety (LADBS). Scope of work included geophysical surveys to identify potential locations of up to 53 reported oil wells and other anomalies, physical exposure of the oil wells using a backhoe excavator, leak checks and the abandonment of oil wells to current DOGGR standards. In addition, soil vapor surveys were conducted in accordance with LADBS guidelines to evaluate the presence of methane and identify the design basis for methane mitigation measures for both the retro-fit of the existing and proposed new buildings and parking structure planned for the redevelopment and expansion of the medical services currently provided.

Former ARCO Pipeline No. 1 Decommissioning Project, Needham Ranch, Newhall, CA (Principal Geologist)

Lewis directed and coordinated oversight for the removal of former ARCO Pipeline No. 1 (owned by Tesoro/now Andeavor), located on a proposed large tract residential redevelopment property located at Needham Ranch, Newhall, CA.
Lewis mobilized a crew to provide oversight, document the removal of the pipeline by the developer's general contractor and collect confirmation soil samples. The oversight was provided to ensure any potentially contaminated soils, if identified as sourced from the former ARCO pipeline No. 1 were segregated, profiled and handled appropriately.

The project was complicated by three other pipelines located in the area, one of which was located directly adjacent to the former ARCO Pipeline No. 1. Stantec's oversight during the decommissioning activities was able to determine that the integrity of the former ARCO Pipeline No. 1 was intact. In addition, the oversight documented the small release of oil from the adjacent oil pipeline while it was being removed. Stantec provided photographic documentation records that the oil released was not from the ARCO Pipeline No. 1, but attributed to the pipeline operated by SoCal Gas Company.

Shell Petroleum, Due Diligence and Compliance Audits, Riverside, Central and Southern California (Southern California Project Team Leader)

Lewis was the Southern California project team leader for conducting due diligence and compliance audits for Shell petroleum retail facilities located throughout Riverside County. The work included the development of a compliance checklist and resolving all notice of violations (NOVs) issued by the Riverside County Environmental Health Care Agency. Each Shell-owned facility was audited for evidence that NOVs were resolved; current SB 989 testing and compliance; and permits and hazardous materials business plans were current, accurate, and a copy was filed at the lead agency. Waste disposal and training records, as well as designated operator inspection reports, were reviewed; emergency equipment and procedures were checked to make sure they were available and on site. Strict deadlines set forth by the district attorney were met to ensure Shell's facilities were in compliance with all Federal, state, and local regulatory requirements. The compliance work was extended to include all counties within Southern California. The cost was $1,500,000.

Target Store Assessment and Remediation, Anaheim, California (Project Manager)

Lewis managed the assessment and remediation of a former Target Store located in Anaheim, California. Sources of impacts identified in soil, soil vapor, and groundwater that were associated with a former dry cleaners and automotive service station that formerly operated at the property. Work included the evaluation of all historical soil, soil vapor, and groundwater data associated with the site to date; the completion of an updated site assessment to evaluate current environmental conditions; and remediation of these source areas. Lewis worked closely with the City of Anaheim Public Utilities Department and the Santa Ana Regional Water Quality Control Board to obtain no further action status for the Site. Liaison and regular meetings due to the aggressive schedule required for cleanup to residential levels and redevelopment of the property into residential condominiums was an integral part of the project's success. Case closure and no further action status were granted by the regulatory agencies in February 2012.

Lewis D. Simons PG

Principal Geologist

PUBLICATIONS

An Initial Environmental Review (EIR) Report. *EIA, Auditing & Environmental Management Systems*, 2002

** denotes projects completed with other firms*